

ITALY

The Report referred to in Article 9 of Directive 2003/99/EC

TRENDS AND SOURCES OF ZOONOSSES AND ZOOTIC AGENTS IN HUMANS, FOODSTUFFS, ANIMALS AND FEEDSTUFFS

including information on foodborne outbreaks,
antimicrobial resistance in zoonotic agents and some
pathogenic microbiological agents.

IN 2012

INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: Italy

Reporting Year: 2012

Laboratory name	Description	Contribution
Ministry of Health, Viale Giorgio Ribotta n.500144 - Roma phone. 0039-06.5994.1	Dipartimento per la Sanità Pubblica Veterinaria, la Nutrizione e la Sicurezza degli Alimenti. Direzione Generale della Sanità Animale e del Farmaco Veterinario- Ufficio II – Sanità animale ed Anagrafi zootecniche	Text comments
Ministry of Health, Viale Giorgio Ribotta n.5 00144 - Roma phone. 0039-06.5994.1	Dipartimento della Sanità Pubblica e dell'Innovazione Direzione Generale della Prevenzione	Collection of national data on of Food-borne outbreaks
Regional veterinary services	Public veterinary services of the regions	Each regional veterinary service collects zoonoses data from its own territory
Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G.Caporale", Campo Boario - 64100 Teramo	National Reference Centre for Epidemiology, programming, Information and risk analysis - COVEPI	Zoonoses data collection, analysis and submission
Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana, Via Appia Nuova 1411, 00178 Rome, Italy. National Reference Laboratory for Antimicrobial Resistance	National Reference Laboratory for Antimicrobial Resistance in bacteria of animal origin (animal pathogens, zoonotic pathogens, indicator bacteria in animals, food of animal origin, feedstuffs)	Production and interpretation of data on bacterial isolates collected in control programs, European harmonised monitoring schemes, national monitoring programs, passive laboratory surveillance

INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Laboratory name	Description	Contribution
Istituto zooprofilattico delle Venezie, Viale dell'Università n.10 - 35020 Legnaro (PD)	National Reference Centre for salmonellosis	Collection of national data on typing of Salmonella spp.
Istituto zooprofilattico delle Venezie, Viale dell'Università n.10 - 35020 Legnaro (PD)	National reference laboratory for Rabies	Collection of national data on Rabies

PREFACE

This report is submitted to the European Commission in accordance with Article 9 of Council Directive 2003/99/ EC*. The information has also been forwarded to the European Food Safety Authority (EFSA).

The report contains information on trends and sources of zoonoses and zoonotic agents in Italy during the year 2012 .

The information covers the occurrence of these diseases and agents in humans, animals, foodstuffs and in some cases also in feedingstuffs. In addition the report includes data on antimicrobial resistance in some zoonotic agents and commensal bacteria as well as information on epidemiological investigations of foodborne outbreaks. Complementary data on susceptible animal populations in the country is also given. The information given covers both zoonoses that are important for the public health in the whole European Community as well as zoonoses, which are relevant on the basis of the national epidemiological situation.

The report describes the monitoring systems in place and the prevention and control strategies applied in the country. For some zoonoses this monitoring is based on legal requirements laid down by the Community Legislation, while for the other zoonoses national approaches are applied.

The report presents the results of the examinations carried out in the reporting year. A national evaluation of the epidemiological situation, with special reference to trends and sources of zoonotic infections, is given. Whenever possible, the relevance of findings in foodstuffs and animals to zoonoses cases in humans is evaluated.

The information covered by this report is used in the annual Community Summary Report on zoonoses that is published each year by EFSA.

* Directive 2003/ 99/ EC of the European Parliament and of the Council of 12 December 2003 on the monitoring of zoonoses and zoonotic agents, amending Decision 90/ 424/ EEC and repealing Council Directive 92/ 117/ EEC, OJ L 325, 17.11.2003, p. 31

List of Contents

1	ANIMAL POPULATIONS	1
2	INFORMATION ON SPECIFIC ZOOSES AND ZOONOTIC AGENTS	6
2.1	SALMONELLOSIS	7
2.1.1	General evaluation of the national situation	7
2.1.2	Salmonella in foodstuffs	7
2.1.3	Salmonella in animals	163
2.1.4	Salmonella in feedingstuffs	245
2.1.5	Salmonella serovars and phagetype distribution	269
2.1.6	Antimicrobial resistance in Salmonella isolates	428
2.2	CAMPYLOBACTERIOSIS	970
2.2.1	General evaluation of the national situation	970
2.2.2	Campylobacter in foodstuffs	971
2.2.3	Campylobacter in animals	997
2.2.4	Antimicrobial resistance in Campylobacter isolates	1013
2.3	LISTERIOSIS	1019
2.3.1	General evaluation of the national situation	1019
2.3.2	Listeria in foodstuffs	1021
2.3.3	Listeria in animals	1093
2.4	E. COLI INFECTIONS	1099
2.4.1	General evaluation of the national situation	1099
2.4.2	E. coli infections in humans	1101
2.4.3	Escherichia coli, pathogenic in foodstuffs	1103
2.4.4	Escherichia coli, pathogenic in animals	1133
2.5	TUBERCULOSIS, MYCOBACTERIAL DISEASES	1143
2.5.1	General evaluation of the national situation	1143
2.5.2	Mycobacterium in animals	1143
2.6	BRUCELLOSIS	1158
2.6.1	General evaluation of the national situation	1158
2.6.2	Brucella in foodstuffs	1160
2.6.3	Brucella in animals	1164
2.7	YERSINIOSIS	1194
2.7.1	General evaluation of the national situation	1194
2.7.2	Yersinia in foodstuffs	1195
2.7.3	Yersinia in animals	1208
2.8	TRICHINELLOSIS	1217
2.8.1	General evaluation of the national situation	1217
2.8.2	Trichinellosis in humans	1219
2.8.3	Trichinella in animals	1221
2.9	ECHINOCOCCOSIS	1231
2.9.1	General evaluation of the national situation	1231

2.9.2	Echinococcosis in humans	1233
2.9.3	Echinococcus in animals	1234
2.10	TOXOPLASMOSIS	1261
2.10.1	General evaluation of the national situation	1261
2.10.2	Toxoplasma in animals	1263
2.11	RABIES	1268
2.11.1	General evaluation of the national situation	1268
2.11.2	Lyssavirus (rabies) in animals	1269
2.12	STAPHYLOCOCCUS INFECTION	1288
2.12.1	General evaluation of the national situation	1288
2.12.2	Staphylococcus in foodstuffs	1288
2.12.3	Staphylococcus in animals	1326
2.13	Q-FEVER	1337
2.13.1	General evaluation of the national situation	1337
2.13.2	Coxiella (Q-fever) in animals	1338
2.14	WEST NILE VIRUS INFECTIONS	1354
2.14.1	General evaluation of the national situation	1354
2.14.2	West Nile Virus Infections in humans	1354
2.14.3	West Nile Virus in animals	1356
3	INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL	1386
3.1	ESCHERICHIA COLI, NON-PATHOGENIC	1387
3.1.1	General evaluation of the national situation	1387
3.2	ENTEROCOCCUS, NON-PATHOGENIC	1387
3.2.1	General evaluation of the national situation	1387
4	INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS	1388
4.1	CRONOBACTER	1389
4.1.1	General evaluation of the national situation	1389
4.1.2	Cronobacter in foodstuffs	1389
4.2	HISTAMINE	1393
4.2.1	General evaluation of the national situation	1393
4.2.2	Histamine in foodstuffs	1393
4.3	STAPHYLOCOCCAL ENTEROTOXINS	1399
4.3.1	General evaluation of the national situation	1399
4.3.2	Staphylococcal enterotoxins in foodstuffs	1399
5	FOODBORNE OUTBREAKS	1407

1. ANIMAL POPULATIONS

The relevance of the findings on zoonoses and zoonotic agents has to be related to the size and nature of the animal population in the country.

Table Susceptible animal populations

* Only if different than current reporting year

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Cattle (bovine animals)	meat production animals	95506		1725655		2286152		92434	
	dairy cows and heifers	32464		439264		2701235		31719	
	calves (under 1 year)	428		246262		161971		414	
	mixed herds	17573		117904		472338		16958	
	- in total	145971		2529085		5621696		141525	
Ducks	meat production flocks	330						329	
	breeding flocks, unspecified - in total	22						22	
	mixed flocks/holdings	4						4	
	- in total	356						355	
Gallus gallus (fowl)	breeding flocks for egg production line - in total	147						144	
	breeding flocks for meat production line - in total	677						668	
	laying hens	3405						3256	
	broilers	4483						4305	

Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Gallus gallus (fowl)	- in total	8712						8373	
Geese	meat production flocks	245						244	
	breeding flocks, unspecified - in total	14						14	
	mixed flocks/holdings	4						4	
	- in total	263						262	
Goats	meat production animals	26825		7640		301591		26151	
	milk goats	5019		4842		257755		4747	
	mixed herds	21956		19570		450094		20415	
	- in total	53800		32052		1009440		51313	
Pigs	breeding animals	21795		2587099		3532034		20448	
	fattening pigs	13129		7162677		5106034		12654	
	mixed herds	102859		19319		139993		98436	
	- in total	137783		9769095		8778061		131538	
Sheep	meat production animals	35815		49970		1059259		34977	

Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Sheep	milk ewes	15962		97804		3651527		13988	
	mixed herds	38288		159760		2618297		36273	
	- in total	90065		307534		7329083		85238	
Solipeds, domestic	horses - in total	129741		18435		265328		121979	
Turkeys	meat production flocks	988						948	
	breeding flocks, unspecified - in total	57						56	
	mixed flocks/holdings	0						0	
	- in total	1045						1004	
Wild boars	farmed - in total	755		1655		4568		746	
Buffalos	- in total	2665		47220		383247		2480	
	- unspecified (Dairy cows and heifer)	1995		42762		346633		1818	
	- unspecified (Meat production animals)	421		1032		6145		416	
	- unspecified (Mixed herds)	249		3426		30469		246	

Table Susceptible animal populations

2. INFORMATION ON SPECIFIC ZOOSES AND ZOONOTIC AGENTS

Zoonoses are diseases or infections, which are naturally transmissible directly or indirectly between animals and humans. Foodstuffs serve often as vehicles of zoonotic infections. Zoonotic agents cover viruses, bacteria, fungi, parasites or other biological entities that are likely to cause zoonoses.

2.1 SALMONELLOSIS

2.1.1 General evaluation of the national situation

2.1.2 Salmonella in foodstuffs

A. Salmonella spp. in broiler meat and products thereof

National evaluation of the recent situation, the trends and sources of infection

193 samples have been collected for official controls (139), for own check controls (29) and research studies (25) (different types of context). Moreover, the sampling stages are represented mainly by the transformation laboratories (117), the retail stores (46) and the slaughterhouses (23).

The most sampled food matrix is represented by fresh meat (160) followed by offals (20), meat products, mechanically separated meat and mixed food preparations.

Out of the 193 tested samples, six resulted positive for *Salmonella* spp.; the detected serotypes were: *S. Infantis* (4) and *S. Kedougou* (2).

B. Salmonella spp. in pig meat and products thereof

National evaluation of the recent situation, the trends and sources of infection

2353 samples have been collected mainly for official controls (1588) and for own check controls (758).

Moreover, the sampling stages are represented mainly by the transformation laboratories (1979) and the retail stores (318).

The most sampled food matrix is represented by meat products (1346) followed by meat preparations (511), fresh meat (417) and minced meat (54).

Out of the 2353 tested samples, 35 resulted positive for *Salmonella* spp.; the detected serotypes were: *S. Bovis morbificans* (3), *S. Brandenburg* (6), *S. Derby* (6), *S. Rissen* (2) and *S. Typhimurium* (3).

C. Salmonella spp. in bovine meat and products thereof

National evaluation of the recent situation, the trends and sources of infection

502 samples have been collected mainly for official controls (261) and for own check controls (238).

Moreover, the sampling stages are represented mainly by the transformation laboratories (309) and the retail stores (135).

The most sampled food matrix is represented by fresh meat (287) followed by minced meat (130) and meat preparations (33).

Out of the 502 tested samples, 4 samples resulted positive for *Salmonella* spp.; the detected serotypes were: *S. Kapemba* (1), *S. Rissen* (2) and *S. 1,4[5],12:i:-* (1).

D. Salmonella spp. in turkey meat and products thereof

National evaluation of the recent situation, the trends and sources of infection

A total number of 108 samples has been collected, mostly for official controls (104). The sampling stages are represented mainly by the transformation laboratories (73) and the retail stores (30).

The most sampled food matrix is represented by minced meat (37), fresh meat (26) and meat preparations (26) followed by meat products (16).

Out of the 108 tested samples, twenty samples resulted positive for *Salmonella* spp.; the detected serotypes were: *S. Blockley* (9), *S. Anatum* (8), *S. Hadar* (2) and *S. Chester* (1).

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	36	0		
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1		
Meat from turkey - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	10	0		
Meat from turkey - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from broilers (Gallus gallus) - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from broilers (Gallus gallus) - fresh - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0		
Meat from broilers (Gallus gallus) - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	20	2		
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	1		
Meat from duck - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from geese - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0		

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from poultry, unspecified - carcase - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Meat from poultry, unspecified - carcase - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	29	0		
Meat from poultry, unspecified - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	31	0		
Meat from poultry, unspecified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	1		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Meat from poultry, unspecified - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	1	1	
Meat from poultry, unspecified - meat preparation - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Meat from poultry, unspecified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Meat from poultry, unspecified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from poultry, unspecified - mechanically separated meat (MSM) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	3		
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	15	0		
Meat from poultry, unspecified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from poultry, unspecified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	1		
Meat from turkey - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from turkey - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from turkey - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from turkey - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from turkey - meat products - at retail - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from turkey - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from turkey - mechanically separated meat (MSM) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from turkey - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	43	10		
Meat from turkey - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	9		1
Meat from turkey - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Anatum	S. Blockley	S. Chester	S. Coeln	S. Hadar	S. Infantis	S. Kedougou	S. Newport	S. Saintpaul
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance											
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance								1			
Meat from turkey - carcass - at slaughterhouse - Surveillance											
Meat from turkey - fresh - at processing plant - Surveillance											
Meat from turkey - fresh - at retail - Surveillance											
Meat from broilers (Gallus gallus) - fresh - at catering - Surveillance											
Meat from broilers (Gallus gallus) - fresh - at processing plant - Survey - national survey											

Table Salmonella in poultry meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Anatum	S. Blockley	S. Chester	S. Coeln	S. Hadar	S. Infantis	S. Kedougou	S. Newport	S. Saintpaul
Meat from broilers (Gallus gallus) - fresh - at retail - Survey - national survey									1		
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance											
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance							1				
Meat from duck - meat products - at processing plant - Unspecified											
Meat from geese - meat products - at processing plant - Unspecified											
Meat from poultry, unspecified - carcase - at processing plant - Surveillance											
Meat from poultry, unspecified - carcase - at processing plant - Unspecified											
Meat from poultry, unspecified - carcase - at slaughterhouse - Surveillance											
Meat from poultry, unspecified - fresh - at catering - Surveillance											
Meat from poultry, unspecified - fresh - at processing plant - Surveillance											
Meat from poultry, unspecified - fresh - at processing plant - Surveillance											
Meat from poultry, unspecified - fresh - at processing plant - Unspecified											

Table Salmonella in poultry meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Anatum	S. Blockley	S. Chester	S. Coeln	S. Hadar	S. Infantis	S. Kedougou	S. Newport	S. Saintpaul
Meat from poultry, unspecified - fresh - at retail - Surveillance											
Meat from poultry, unspecified - fresh - at retail - Surveillance											
Meat from poultry, unspecified - fresh - at retail - Unspecified											
Meat from poultry, unspecified - meat preparation - at catering - Surveillance											
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance											
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance											
Meat from poultry, unspecified - meat preparation - at processing plant - Unspecified											
Meat from poultry, unspecified - meat preparation - at retail - Surveillance											
Meat from poultry, unspecified - meat preparation - at retail - Unspecified											
Meat from poultry, unspecified - meat products - at catering - Surveillance											
Meat from poultry, unspecified - meat products - at catering - Unspecified											
Meat from poultry, unspecified - meat products - at processing plant - Surveillance											

Table Salmonella in poultry meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Anatum	S. Blockley	S. Chester	S. Coeln	S. Hadar	S. Infantis	S. Kedougou	S. Newport	S. Saintpaul
Meat from poultry, unspecified - meat products - at processing plant - Surveillance											
Meat from poultry, unspecified - meat products - at retail - Surveillance											
Meat from poultry, unspecified - mechanically separated meat (MSM) - at processing plant - Surveillance								3			
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance											
Meat from poultry, unspecified - minced meat - at retail - Surveillance											
Meat from poultry, unspecified - offal - at processing plant - Surveillance											
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance											
Meat from turkey - fresh - at processing plant - Surveillance					1						
Meat from turkey - fresh - at processing plant - Unspecified											
Meat from turkey - fresh - at retail - Unspecified											
Meat from turkey - meat preparation - at catering - Surveillance											
Meat from turkey - meat preparation - at retail - Surveillance											

Table Salmonella in poultry meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Anatum	S. Blockley	S. Chester	S. Coeln	S. Hadar	S. Infantis	S. Kedougou	S. Newport	S. Saintpaul
Meat from turkey - meat products - at catering - Surveillance											
Meat from turkey - meat products - at processing plant - Surveillance											
Meat from turkey - meat products - at processing plant - Unspecified											
Meat from turkey - meat products - at retail - Surveillance											
Meat from turkey - meat products - at retail - Surveillance											
Meat from turkey - mechanically separated meat (MSM) - at processing plant - Surveillance											
Meat from turkey - minced meat - at processing plant - Surveillance			1				3			2	3
Meat from turkey - minced meat - at retail - Surveillance				2		2				2	2
Meat from turkey - offal - at processing plant - Surveillance											
	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic								
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance											

Table Salmonella in poultry meat and products thereof

	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance			
Meat from turkey - carcase - at slaughterhouse - Surveillance			
Meat from turkey - fresh - at processing plant - Surveillance			
Meat from turkey - fresh - at retail - Surveillance			
Meat from broilers (Gallus gallus) - fresh - at catering - Surveillance			
Meat from broilers (Gallus gallus) - fresh - at processing plant - Survey - national survey			
Meat from broilers (Gallus gallus) - fresh - at retail - Survey - national survey			1
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance			
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance			
Meat from duck - meat products - at processing plant - Unspecified			
Meat from geese - meat products - at processing plant - Unspecified			
Meat from poultry, unspecified - carcase - at processing plant - Surveillance			
Meat from poultry, unspecified - carcase - at processing plant - Unspecified			

Table Salmonella in poultry meat and products thereof

	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic
Meat from poultry, unspecified - carcase - at slaughterhouse - Surveillance			
Meat from poultry, unspecified - fresh - at catering - Surveillance			
Meat from poultry, unspecified - fresh - at processing plant - Surveillance			
Meat from poultry, unspecified - fresh - at processing plant - Surveillance			
Meat from poultry, unspecified - fresh - at processing plant - Unspecified			
Meat from poultry, unspecified - fresh - at retail - Surveillance		1	
Meat from poultry, unspecified - fresh - at retail - Surveillance			
Meat from poultry, unspecified - fresh - at retail - Unspecified			
Meat from poultry, unspecified - meat preparation - at catering - Surveillance			
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance			
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance			
Meat from poultry, unspecified - meat preparation - at processing plant - Unspecified			

Table Salmonella in poultry meat and products thereof

	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic
Meat from poultry, unspecified - meat preparation - at retail - Surveillance			
Meat from poultry, unspecified - meat preparation - at retail - Unspecified			
Meat from poultry, unspecified - meat products - at catering - Surveillance			
Meat from poultry, unspecified - meat products - at catering - Unspecified			
Meat from poultry, unspecified - meat products - at processing plant - Surveillance			
Meat from poultry, unspecified - meat products - at processing plant - Surveillance			
Meat from poultry, unspecified - meat products - at retail - Surveillance			
Meat from poultry, unspecified - mechanically separated meat (MSM) - at processing plant - Surveillance			
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance			
Meat from poultry, unspecified - minced meat - at retail - Surveillance			
Meat from poultry, unspecified - offal - at processing plant - Surveillance			
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance			

Table Salmonella in poultry meat and products thereof

	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic
Meat from turkey - fresh - at processing plant - Surveillance			
Meat from turkey - fresh - at processing plant - Unspecified			
Meat from turkey - fresh - at retail - Unspecified			
Meat from turkey - meat preparation - at catering - Surveillance			
Meat from turkey - meat preparation - at retail - Surveillance			
Meat from turkey - meat products - at catering - Surveillance			
Meat from turkey - meat products - at processing plant - Surveillance			
Meat from turkey - meat products - at processing plant - Unspecified			
Meat from turkey - meat products - at retail - Surveillance			
Meat from turkey - meat products - at retail - Surveillance			
Meat from turkey - mechanically separated meat (MSM) - at processing plant - Surveillance			
Meat from turkey - minced meat - at processing plant - Surveillance	1		
Meat from turkey - minced meat - at retail - Surveillance		1	

Table Salmonella in poultry meat and products thereof

	S. Senftenberg	S. Thompson	S. Typhimurium, monophasic
Meat from turkey - offal - at processing plant - Surveillance			

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	21	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	53	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Cheeses made from cows' milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	21	0		
Cheeses made from cows' milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	24	0		
Cheeses made from cows' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Cheeses made from cows' milk - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Cheeses made from cows' milk - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	163	0		
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	17	0		
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	0		
Cheeses made from cows' milk - hard - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	0		
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	58	0		
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	74	0		
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	134	0		
Cheeses made from cows' milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - soft and semi-soft - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Cheeses made from goats' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from goats' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0		
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	10	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses made from sheep's milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Cheeses made from sheep's milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	42	0		
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Cheeses, made from unspecified milk or other animal milk - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	61	0		
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	13	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	561	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	132	3		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	66	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	41	2		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	192	2		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	88	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	74	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	161	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	9	0		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Cheeses, made from unspecified milk or other animal milk - hard - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0		
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	13	0		
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	96	0		
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	131	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	7	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	114	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Dairy products (excluding cheeses) - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	146	0		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	12	0		
Dairy products (excluding cheeses) - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	7	0		
Dairy products (excluding cheeses) - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	32	0		
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Dairy products (excluding cheeses) - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	feed sample	Domestic	Single	25 Gram	8	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	133	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - butter - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	15	0		
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Dairy products (excluding cheeses) - cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - cream - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0		
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Dairy products (excluding cheeses) - cream - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	23	0		
Dairy products (excluding cheeses) - ice-cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	66	0		
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	26	0		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	56	0		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	125	1		
Dairy products (excluding cheeses) - ice-cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	40	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	10	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - yoghurt - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0		
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - yoghurt - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0		
Dairy products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	38	0		
Dairy products, unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Dairy products, unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	6	0		
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	76	0		
Dairy products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	76	0		
Dairy products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	14	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Dairy products, unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	72	0		
Milk from other animal species or unspecified - UHT milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - UHT milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Milk from other animal species or unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Milk from other animal species or unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1408	1		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	239	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	28	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Milk from other animal species or unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	10	0		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	23	0		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	50	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	328	1		
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	10	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Milk, cows' - UHT milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk, cows' - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	3	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Census	Official sampling	animal sample	Domestic	Single	25 Gram	25	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	25	1		
Milk, cows' - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	5	1		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Milk, cows' - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	20	0		
Milk, cows' - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	12	0		
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	45	0		
Milk, cows' - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Milk, cows' - pasteurised milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	315	0		
Milk, cows' - pasteurised milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	2	0		
Milk, cows' - pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Milk, goats' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, sheep's - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	1		

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance							
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance							
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses made from cows' milk - at catering - Surveillance							
Cheeses made from cows' milk - at processing plant - Surveillance							
Cheeses made from cows' milk - at processing plant - Surveillance							
Cheeses made from cows' milk - at processing plant - Survey - national survey							
Cheeses made from cows' milk - at processing plant - Unspecified							
Cheeses made from cows' milk - at retail - Surveillance							
Cheeses made from cows' milk - fresh - at catering - Surveillance							
Cheeses made from cows' milk - fresh - at catering - Unspecified							
Cheeses made from cows' milk - fresh - at processing plant - Surveillance							
Cheeses made from cows' milk - fresh - at processing plant - Surveillance							
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey							
Cheeses made from cows' milk - fresh - at retail - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses made from cows' milk - hard - at catering - Surveillance							
Cheeses made from cows' milk - hard - at processing plant - Surveillance							
Cheeses made from cows' milk - hard - at processing plant - Surveillance							
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey							
Cheeses made from cows' milk - hard - at processing plant - Unspecified							
Cheeses made from cows' milk - hard - at retail - Surveillance							
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance							
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance							
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified							
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified							
Cheeses made from cows' milk - soft and semi-soft - at retail - Surveillance							
Cheeses made from cows' milk - soft and semi-soft - at retail - Unspecified							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance							
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at retail - Surveillance							
Cheeses made from goats' milk - at processing plant - Surveillance							
Cheeses made from goats' milk - at processing plant - Surveillance							
Cheeses made from goats' milk - at retail - Surveillance							
Cheeses made from goats' milk - soft and semi-soft - at processing plant - Unspecified							
Cheeses made from sheep's milk - at processing plant - Surveillance							
Cheeses made from sheep's milk - at processing plant - Surveillance							
Cheeses made from sheep's milk - at retail - Surveillance							
Cheeses made from sheep's milk - hard - at processing plant - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses, made from unspecified milk or other animal milk - at catering - Survey - national survey							
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified							
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance							3
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey		2					
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified							2
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified							
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance							
Cheeses, made from unspecified milk or other animal milk - at retail - Unspecified							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance							
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified							
Cheeses, made from unspecified milk or other animal milk - hard - at catering - Unspecified							
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance							
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey							
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Unspecified							
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance							
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Unspecified							
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Unspecified							
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Survey - national survey							
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified							
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance							
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance							
Dairy products (excluding cheeses) - at catering - Survey - national survey							
Dairy products (excluding cheeses) - at catering - Unspecified							
Dairy products (excluding cheeses) - at processing plant - Surveillance							
Dairy products (excluding cheeses) - at processing plant - Surveillance							
Dairy products (excluding cheeses) - at processing plant - Surveillance							
Dairy products (excluding cheeses) - at processing plant - Survey - national survey							
Dairy products (excluding cheeses) - at processing plant - Unspecified							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - at retail - Surveillance							
Dairy products (excluding cheeses) - at retail - Survey - national survey							
Dairy products (excluding cheeses) - at retail - Unspecified							
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance							
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance							
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance							
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance							
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey							
Dairy products (excluding cheeses) - butter - at processing plant - Unspecified							
Dairy products (excluding cheeses) - butter - at retail - Surveillance							
Dairy products (excluding cheeses) - butter - at retail - Surveillance							
Dairy products (excluding cheeses) - cream - at catering - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - cream - at catering - Survey - national survey							
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance							
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance							
Dairy products (excluding cheeses) - cream - at retail - Surveillance							
Dairy products (excluding cheeses) - cream - at retail - Surveillance							
Dairy products (excluding cheeses) - ice-cream - at catering - Surveillance							
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified							
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance							
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance							
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance							
Dairy products (excluding cheeses) - ice-cream - at processing plant - Unspecified							
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance				1			
Dairy products (excluding cheeses) - ice-cream - at retail - Unspecified							
Dairy products (excluding cheeses) - milk powder and whey powder - at catering - Unspecified							
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance							
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Survey - national survey							
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance							
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance							
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance							
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance							
Dairy products (excluding cheeses) - yoghurt - at processing plant - Survey - national survey							
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - yoghurt - at retail - Surveillance							
Dairy products, unspecified - at catering - Surveillance							
Dairy products, unspecified - at catering - Surveillance							
Dairy products, unspecified - at catering - Survey - national survey							
Dairy products, unspecified - at processing plant - Surveillance							
Dairy products, unspecified - at processing plant - Survey - national survey							
Dairy products, unspecified - at processing plant - Unspecified							
Dairy products, unspecified - at retail - Surveillance							
Dairy products, unspecified - at retail - Surveillance							
Dairy products, unspecified - at retail - Survey - national survey							
Milk from other animal species or unspecified - UHT milk - at catering - Surveillance							
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Milk from other animal species or unspecified - UHT milk - at processing plant - Unspecified							
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance							
Milk from other animal species or unspecified - at catering - Surveillance							
Milk from other animal species or unspecified - at catering - Unspecified							
Milk from other animal species or unspecified - at farm - Surveillance						1	
Milk from other animal species or unspecified - at processing plant - Surveillance							
Milk from other animal species or unspecified - at processing plant - Surveillance							
Milk from other animal species or unspecified - at processing plant - Surveillance							
Milk from other animal species or unspecified - at processing plant - Survey - national survey							
Milk from other animal species or unspecified - at processing plant - Unspecified							
Milk from other animal species or unspecified - at processing plant - Unspecified							
Milk from other animal species or unspecified - at retail - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Milk from other animal species or unspecified - at retail - Surveillance							
Milk from other animal species or unspecified - at retail - Surveillance			1				
Milk from other animal species or unspecified - at retail - Survey - national survey							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Surveillance							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Unspecified							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Unspecified							
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at retail - Surveillance							
Milk, cows' - UHT milk - at catering - Surveillance							
Milk, cows' - at catering - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Milk, cows' - at farm - Surveillance							
Milk, cows' - at farm - Surveillance							
Milk, cows' - at farm - Surveillance						1	
Milk, cows' - at farm - Survey - national survey						1	
Milk, cows' - at processing plant - Surveillance							
Milk, cows' - at processing plant - Surveillance							
Milk, cows' - at processing plant - Unspecified							
Milk, cows' - at processing plant - Unspecified							
Milk, cows' - at retail - Surveillance							
Milk, cows' - at retail - Unspecified							
Milk, cows' - pasteurised milk - at processing plant - Surveillance							
Milk, cows' - pasteurised milk - at processing plant - Unspecified							
Milk, cows' - pasteurised milk - at processing plant - Unspecified							
Milk, cows' - pasteurised milk - at retail - Surveillance							
Milk, goats' - at farm - Surveillance							
Milk, sheep's - at processing plant - Surveillance							
Milk, sheep's - at processing plant - Surveillance							

Table Salmonella in milk and dairy products

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Bredeney	S. Derby	S. Stanleyville	S. Typhimurium, monophasic	S. enterica subsp. diarizonae
Milk, sheep's - at processing plant - Survey - national survey					1		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Eggs - table eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Egg products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0		
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
All foodstuffs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	53	1		
All foodstuffs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
All foodstuffs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	40	0		
Bakery products - bread - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	14	0		
Bakery products - bread - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - desserts - containing heat-treated cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	0		
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - pastry - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	111	0		
Bakery products - pastry - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	10	0		
Bakery products - pastry - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	28	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0		
Bakery products - pastry - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	6	0		
Bakery products - pastry - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	85	1		1
Bakery products - pastry - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	46	0		
Beverages, non-alcoholic - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Beverages, non-alcoholic - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Beverages, non-alcoholic - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	57	0		
Chocolate - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Chocolate - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	25	0		
Cocoa and cocoa preparations, coffee and tea - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cocoa and cocoa preparations, coffee and tea - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	31	0		
Coconut - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Crustaceans - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Crustaceans - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Crustaceans - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	10	0		
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Egg products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Egg products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	12	0		
Egg products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Eggs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Eggs - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	16	0		
Eggs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	48	1		
Eggs - at farm - Surveillance	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Eggs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	4	0		
Eggs - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Single	25 Gram	7	0		
Eggs - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	environmental sample	Domestic	Single	25 Gram	2	0		
Eggs - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Eggs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	32	2		
Eggs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	102	0		
Eggs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	50 Gram	2	0		
Eggs - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	30	0		
Eggs - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0		
Eggs - at retail - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	159	0		
Eggs - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Eggs - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Eggs - table eggs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Eggs - table eggs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	10	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Eggs - table eggs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	43	3	1	1
Eggs - table eggs - white - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Eggs - table eggs - yolk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		
Fats and oils (excluding butter) - fats - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	1		
Fats and oils (excluding butter) - fats - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Fats and oils (excluding butter) - oils - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Fish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Fish - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Fish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Fish - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Fish - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	50	0		
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	19	0		
Fish - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	21	0		
Fish - cooked - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - marinated - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - marinated - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	25	0		
Fish - unspecified - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Fish - unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	7	0		
Fish - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Fish - unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	12	0		
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	20	6		
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	146	2		
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Fish - unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	56	2		1

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Fish - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	64	3		
Fish - unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	9	1		1
Fish - unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	19	0		
Fishery products, unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	63	0		
Fishery products, unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	17	0		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	152	3		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	0		
Fishery products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	32	0		
Fishery products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	419	0		
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	59	3		
Fishery products, unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	40	0		
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	53	0		
Fruits - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Fruits - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Fruits - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	39	0		
Fruits - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Fruits - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits - products - dried - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Fruits - products - dried - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	2		
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Fruits and vegetables - products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Fruits and vegetables - products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Fruits and vegetables - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Fruits and vegetables - products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Honey - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Honey - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Infant formula - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	68	0		
Infant formula - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Infant formula - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Infant formula - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Infant formula - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	118	0		
Infant formula - liquid - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0		
Infant formula - liquid - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Juice - fruit juice - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Juice - fruit juice - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0		
Molluscan shellfish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	34	0		
Molluscan shellfish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	5	0		
Molluscan shellfish - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	39	1		
Molluscan shellfish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	337	7		3
Molluscan shellfish - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	5	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Molluscan shellfish - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Molluscan shellfish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	288	6		
Molluscan shellfish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	54	0		
Molluscan shellfish - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	5	0		
Molluscan shellfish - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	37	0		
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1283	9	1	3
Molluscan shellfish - at retail - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Molluscan shellfish - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	2		
Molluscan shellfish - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Other processed food products and prepared dishes - pasta - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	23	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	43	1		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - pasta - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	54	0		
Other processed food products and prepared dishes - pasta - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	270	1		1
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	48	0		
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	815	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling		Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	128	4		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	4		2
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	7	1		
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	34	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	383	9		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	9	0		
Other processed food products and prepared dishes - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	feed sample	Domestic	Single	25 Gram	2	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Other processed food products and prepared dishes - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	136	0		
Sauce and dressings - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Sauce and dressings - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	40	0		
Sauce and dressings - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Sauce and dressings - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Spices and herbs - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Spices and herbs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Spices and herbs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Spices and herbs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	34	0		
Sweets - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Sweets - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Sweets - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Sweets - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	21	0		
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Vegetables - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	189	0		

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Vegetables - at farm - Surveillance	Sinzoo	Suspect sampling	Official sampling	environmental sample	Domestic	Single	25 Gram	10	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	52	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	23	1		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Vegetables - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	18	0		
Vegetables - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	6	0		
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	224	1		
Vegetables - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Vegetables - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Vegetables - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	24	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Eggs - table eggs - at retail - Surveillance											
Egg products - at processing plant - Surveillance											
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
All foodstuffs - at catering - Surveillance											
All foodstuffs - at processing plant - Surveillance											
All foodstuffs - at processing plant - Surveillance											
All foodstuffs - at retail - Surveillance											
Bakery products - bread - at catering - Unspecified											
Bakery products - bread - at retail - Surveillance											
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance											
Bakery products - desserts - containing heat-treated cream - at retail - Surveillance											
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified											
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance											
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance											
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified											
Bakery products - pastry - at catering - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Bakery products - pastry - at catering - Survey - national survey											
Bakery products - pastry - at catering - Unspecified											
Bakery products - pastry - at processing plant - Surveillance											
Bakery products - pastry - at processing plant - Surveillance											
Bakery products - pastry - at processing plant - Survey - national survey											
Bakery products - pastry - at processing plant - Unspecified											
Bakery products - pastry - at retail - Surveillance											
Bakery products - pastry - at retail - Unspecified											
Beverages, non-alcoholic - at catering - Surveillance											
Beverages, non-alcoholic - at processing plant - Surveillance											
Beverages, non-alcoholic - at retail - Surveillance											
Chocolate - at catering - Surveillance											
Chocolate - at retail - Surveillance											
Cocoa and cocoa preparations, coffee and tea - at catering - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Cocoa and cocoa preparations, coffee and tea - at processing plant - Surveillance											
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance											
Coconut - at processing plant - Surveillance											
Crustaceans - at processing plant - Surveillance											
Crustaceans - at processing plant - Surveillance											
Crustaceans - at processing plant - Unspecified											
Crustaceans - at retail - Surveillance											
Egg products - at catering - Surveillance											
Egg products - at processing plant - Surveillance											
Egg products - at retail - Surveillance											
Eggs - at catering - Surveillance											
Eggs - at catering - Unspecified											
Eggs - at farm - Surveillance		1									
Eggs - at farm - Surveillance											
Eggs - at farm - Survey - national survey											
Eggs - at farm - Unspecified											
Eggs - at farm - Unspecified											
Eggs - at processing plant - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Survey - national survey											
Eggs - at processing plant - Unspecified											
Eggs - at retail - Surveillance											
Eggs - at retail - Surveillance											
Eggs - at retail - Surveillance											
Eggs - at retail - Survey - national survey											
Eggs - table eggs - at catering - Surveillance											
Eggs - table eggs - at farm - Surveillance											
Eggs - table eggs - at processing plant - Surveillance											
Eggs - table eggs - white - at processing plant - Surveillance											
Eggs - table eggs - yolk - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Unspecified		1									
Fats and oils (excluding butter) - fats - at retail - Surveillance											
Fats and oils (excluding butter) - oils - at retail - Surveillance											
Fish - at catering - Surveillance											
Fish - at catering - Unspecified											
Fish - at farm - Surveillance											
Fish - at processing plant - Surveillance											
Fish - at processing plant - Surveillance											
Fish - at processing plant - Unspecified											
Fish - at retail - Surveillance											
Fish - at retail - Surveillance											
Fish - cooked - at catering - Surveillance											
Fish - marinated - at catering - Surveillance											
Fish - marinated - at processing plant - Surveillance											
Fish - unspecified - at catering - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Fish - unspecified - at catering - Surveillance											
Fish - unspecified - at catering - Survey - national survey											
Fish - unspecified - at catering - Unspecified											
Fish - unspecified - at farm - Surveillance											
Fish - unspecified - at processing plant - Surveillance				1	1			1		2	
Fish - unspecified - at processing plant - Surveillance											
Fish - unspecified - at processing plant - Surveillance											
Fish - unspecified - at processing plant - Survey - national survey		1									
Fish - unspecified - at retail - Surveillance		1									
Fish - unspecified - at retail - Surveillance											
Fish - unspecified - at retail - Survey - national survey											
Fishery products, unspecified - at catering - Surveillance											
Fishery products, unspecified - at catering - Unspecified											
Fishery products, unspecified - at farm - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Fishery products, unspecified - at processing plant - Surveillance		3									
Fishery products, unspecified - at processing plant - Surveillance											
Fishery products, unspecified - at processing plant - Survey - national survey											
Fishery products, unspecified - at processing plant - Unspecified											
Fishery products, unspecified - at retail - Surveillance		1					1				
Fishery products, unspecified - at retail - Unspecified											
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at catering - Unspecified											
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance											
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance											
Fruits - at catering - Surveillance											
Fruits - at processing plant - Surveillance											
Fruits - at retail - Surveillance											
Fruits - at retail - Unspecified											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Fruits - products - at retail - Surveillance											
Fruits - products - dried - at processing plant - Surveillance											
Fruits - products - dried - at retail - Surveillance											
Fruits and vegetables - products - at catering - Surveillance											
Fruits and vegetables - products - at processing plant - Surveillance											
Fruits and vegetables - products - at processing plant - Unspecified											
Fruits and vegetables - products - at retail - Surveillance											
Fruits and vegetables - products - at retail - Unspecified											
Honey - at catering - Surveillance											
Honey - at retail - Surveillance											
Infant formula - at catering - Surveillance											
Infant formula - at catering - Surveillance											
Infant formula - at processing plant - Surveillance											
Infant formula - at retail - Surveillance											
Infant formula - at retail - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Infant formula - liquid - at processing plant - Surveillance											
Infant formula - liquid - at retail - Surveillance											
Juice - fruit juice - at processing plant - Surveillance											
Juice - fruit juice - at retail - Surveillance											
Molluscan shellfish - at catering - Surveillance											
Molluscan shellfish - at catering - Surveillance											
Molluscan shellfish - at catering - Unspecified		1									
Molluscan shellfish - at farm - Surveillance		4									
Molluscan shellfish - at farm - Survey - national survey											
Molluscan shellfish - at processing plant - Surveillance											
Molluscan shellfish - at processing plant - Surveillance		4	1			1					
Molluscan shellfish - at processing plant - Surveillance											
Molluscan shellfish - at processing plant - Survey - national survey											
Molluscan shellfish - at processing plant - Unspecified											
Molluscan shellfish - at retail - Surveillance		3									

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Molluscan shellfish - at retail - Surveillance											
Molluscan shellfish - at retail - Surveillance											
Molluscan shellfish - at retail - Survey - national survey		2									
Molluscan shellfish - at retail - Unspecified											
Other processed food products and prepared dishes - at catering - Surveillance											
Other processed food products and prepared dishes - at retail - Surveillance											
Other processed food products and prepared dishes - pasta - at catering - Surveillance											
Other processed food products and prepared dishes - pasta - at catering - Unspecified											
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance											
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance											
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance											
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Other processed food products and prepared dishes - pasta - at retail - Surveillance											
Other processed food products and prepared dishes - pasta - at retail - Unspecified											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey											
Other processed food products and prepared dishes - unspecified - at catering - Unspecified											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											1

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey		1									
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified											
Other processed food products and prepared dishes - unspecified - at retail - Surveillance		8									
Other processed food products and prepared dishes - unspecified - at retail - Surveillance											
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey											
Other processed food products and prepared dishes - unspecified - at retail - Unspecified											
Other processed food products and prepared dishes - unspecified - at retail - Unspecified											
Sauce and dressings - at catering - Surveillance											
Sauce and dressings - at catering - Unspecified											
Sauce and dressings - at processing plant - Surveillance											
Sauce and dressings - at retail - Surveillance											
Spices and herbs - at catering - Unspecified											
Spices and herbs - at processing plant - Surveillance											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Spices and herbs - at processing plant - Surveillance											
Spices and herbs - at retail - Surveillance											
Sweets - at catering - Surveillance											
Sweets - at catering - Survey - national survey											
Sweets - at processing plant - Surveillance											
Sweets - at retail - Surveillance											
Vegetables - at catering - Surveillance											
Vegetables - at catering - Surveillance											
Vegetables - at catering - Unspecified											
Vegetables - at farm - Surveillance											
Vegetables - at processing plant - Surveillance											
Vegetables - at processing plant - Surveillance								1			
Vegetables - at processing plant - Surveillance											
Vegetables - at processing plant - Survey - national survey											
Vegetables - at processing plant - Unspecified											
Vegetables - at retail - Surveillance									1		
Vegetables - at retail - Surveillance											
Vegetables - at retail - Survey - national survey											

Table Salmonella in other food

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Agona	S. Apeyeme	S. Ball	S. Bareilly	S. Blockley	S. Bovismorbificans	S. Bredeney
Vegetables - at retail - Unspecified											
	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Eggs - table eggs - at retail - Surveillance											
Egg products - at processing plant - Surveillance											
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance											
All foodstuffs - at catering - Surveillance								1			
All foodstuffs - at processing plant - Surveillance											
All foodstuffs - at processing plant - Surveillance											
All foodstuffs - at retail - Surveillance											
Bakery products - bread - at catering - Unspecified											
Bakery products - bread - at retail - Surveillance											
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance											
Bakery products - desserts - containing heat-treated cream - at retail - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified											
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance											
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance											
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified											
Bakery products - pastry - at catering - Surveillance											
Bakery products - pastry - at catering - Survey - national survey											
Bakery products - pastry - at catering - Unspecified											
Bakery products - pastry - at processing plant - Surveillance											
Bakery products - pastry - at processing plant - Surveillance											
Bakery products - pastry - at processing plant - Survey - national survey											
Bakery products - pastry - at processing plant - Unspecified											
Bakery products - pastry - at retail - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Bakery products - pastry - at retail - Unspecified											
Beverages, non-alcoholic - at catering - Surveillance											
Beverages, non-alcoholic - at processing plant - Surveillance											
Beverages, non-alcoholic - at retail - Surveillance											
Chocolate - at catering - Surveillance											
Chocolate - at retail - Surveillance											
Cocoa and cocoa preparations, coffee and tea - at catering - Surveillance											
Cocoa and cocoa preparations, coffee and tea - at processing plant - Surveillance											
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance											
Coconut - at processing plant - Surveillance											
Crustaceans - at processing plant - Surveillance											
Crustaceans - at processing plant - Surveillance											
Crustaceans - at processing plant - Unspecified											
Crustaceans - at retail - Surveillance											
Egg products - at catering - Surveillance											
Egg products - at processing plant - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Egg products - at retail - Surveillance											
Eggs - at catering - Surveillance											
Eggs - at catering - Unspecified											
Eggs - at farm - Surveillance											
Eggs - at farm - Surveillance											
Eggs - at farm - Survey - national survey											
Eggs - at farm - Unspecified											
Eggs - at farm - Unspecified											
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Surveillance					2						
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Surveillance											
Eggs - at processing plant - Survey - national survey											
Eggs - at processing plant - Unspecified											
Eggs - at retail - Surveillance											
Eggs - at retail - Surveillance											
Eggs - at retail - Surveillance											
Eggs - at retail - Survey - national survey											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Eggs - table eggs - at catering - Surveillance											
Eggs - table eggs - at farm - Surveillance											
Eggs - table eggs - at processing plant - Surveillance								1			
Eggs - table eggs - white - at processing plant - Surveillance											
Eggs - table eggs - yolk - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Surveillance											
Fats and oils (excluding butter) - fats - at processing plant - Unspecified											
Fats and oils (excluding butter) - fats - at retail - Surveillance											
Fats and oils (excluding butter) - oils - at retail - Surveillance											
Fish - at catering - Surveillance											
Fish - at catering - Unspecified											
Fish - at farm - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Fish - at processing plant - Surveillance											
Fish - at processing plant - Surveillance											
Fish - at processing plant - Unspecified											
Fish - at retail - Surveillance											
Fish - at retail - Surveillance											
Fish - cooked - at catering - Surveillance											
Fish - marinated - at catering - Surveillance											
Fish - marinated - at processing plant - Surveillance											
Fish - unspecified - at catering - Surveillance											
Fish - unspecified - at catering - Surveillance											
Fish - unspecified - at catering - Survey - national survey											
Fish - unspecified - at catering - Unspecified											
Fish - unspecified - at farm - Surveillance											
Fish - unspecified - at processing plant - Surveillance			1								
Fish - unspecified - at processing plant - Surveillance									1		
Fish - unspecified - at processing plant - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Fish - unspecified - at processing plant - Survey - national survey											
Fish - unspecified - at retail - Surveillance						1					1
Fish - unspecified - at retail - Surveillance											
Fish - unspecified - at retail - Survey - national survey											
Fishery products, unspecified - at catering - Surveillance											
Fishery products, unspecified - at catering - Unspecified											
Fishery products, unspecified - at farm - Surveillance											
Fishery products, unspecified - at processing plant - Surveillance											
Fishery products, unspecified - at processing plant - Surveillance											
Fishery products, unspecified - at processing plant - Survey - national survey											
Fishery products, unspecified - at processing plant - Unspecified											
Fishery products, unspecified - at retail - Surveillance											
Fishery products, unspecified - at retail - Unspecified											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at catering - Unspecified											
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance											
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance											
Fruits - at catering - Surveillance											
Fruits - at processing plant - Surveillance											
Fruits - at retail - Surveillance											
Fruits - at retail - Unspecified											
Fruits - products - at retail - Surveillance											
Fruits - products - dried - at processing plant - Surveillance											
Fruits - products - dried - at retail - Surveillance				2							
Fruits and vegetables - products - at catering - Surveillance											
Fruits and vegetables - products - at processing plant - Surveillance											
Fruits and vegetables - products - at processing plant - Unspecified											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Fruits and vegetables - products - at retail - Surveillance											
Fruits and vegetables - products - at retail - Unspecified											
Honey - at catering - Surveillance											
Honey - at retail - Surveillance											
Infant formula - at catering - Surveillance											
Infant formula - at catering - Surveillance											
Infant formula - at processing plant - Surveillance											
Infant formula - at retail - Surveillance											
Infant formula - at retail - Surveillance											
Infant formula - liquid - at processing plant - Surveillance											
Infant formula - liquid - at retail - Surveillance											
Juice - fruit juice - at processing plant - Surveillance											
Juice - fruit juice - at retail - Surveillance											
Molluscan shellfish - at catering - Surveillance											
Molluscan shellfish - at catering - Surveillance											
Molluscan shellfish - at catering - Unspecified											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Molluscan shellfish - at farm - Surveillance											
Molluscan shellfish - at farm - Survey - national survey											
Molluscan shellfish - at processing plant - Surveillance											
Molluscan shellfish - at processing plant - Surveillance											
Molluscan shellfish - at processing plant - Surveillance											
Molluscan shellfish - at processing plant - Survey - national survey											
Molluscan shellfish - at processing plant - Unspecified											
Molluscan shellfish - at retail - Surveillance							1			1	
Molluscan shellfish - at retail - Surveillance											
Molluscan shellfish - at retail - Surveillance											
Molluscan shellfish - at retail - Survey - national survey											
Molluscan shellfish - at retail - Unspecified											
Other processed food products and prepared dishes - at catering - Surveillance											
Other processed food products and prepared dishes - at retail - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Other processed food products and prepared dishes - pasta - at catering - Surveillance											
Other processed food products and prepared dishes - pasta - at catering - Unspecified											
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance											
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	1										
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance											
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified											
Other processed food products and prepared dishes - pasta - at retail - Surveillance											
Other processed food products and prepared dishes - pasta - at retail - Unspecified											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											
Other processed food products and prepared dishes - unspecified - at catering - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey											
Other processed food products and prepared dishes - unspecified - at catering - Unspecified											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				1							
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance											
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance		1									
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey											
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified											
Other processed food products and prepared dishes - unspecified - at retail - Surveillance											
Other processed food products and prepared dishes - unspecified - at retail - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey											
Other processed food products and prepared dishes - unspecified - at retail - Unspecified											
Other processed food products and prepared dishes - unspecified - at retail - Unspecified											
Sauce and dressings - at catering - Surveillance											
Sauce and dressings - at catering - Unspecified											
Sauce and dressings - at processing plant - Surveillance											
Sauce and dressings - at retail - Surveillance											
Spices and herbs - at catering - Unspecified											
Spices and herbs - at processing plant - Surveillance											
Spices and herbs - at processing plant - Surveillance											
Spices and herbs - at retail - Surveillance											
Sweets - at catering - Surveillance											
Sweets - at catering - Survey - national survey											
Sweets - at processing plant - Surveillance											
Sweets - at retail - Surveillance											

Table Salmonella in other food

	S. Coeln	S. Derby	S. Elisabethville	S. Galil	S. Infantis	S. Inganda	S. Isangi	S. Kentucky	S. Paratyphi B	S. Senftenberg	S. Texas
Vegetables - at catering - Surveillance											
Vegetables - at catering - Surveillance											
Vegetables - at catering - Unspecified											
Vegetables - at farm - Surveillance											
Vegetables - at processing plant - Surveillance											
Vegetables - at processing plant - Surveillance											
Vegetables - at processing plant - Surveillance											
Vegetables - at processing plant - Survey - national survey											
Vegetables - at processing plant - Unspecified											
Vegetables - at retail - Surveillance											
Vegetables - at retail - Surveillance											
Vegetables - at retail - Survey - national survey											
Vegetables - at retail - Unspecified											
	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae							
Eggs - table eggs - at retail - Surveillance											
Egg products - at processing plant - Surveillance											

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance				
All foodstuffs - at catering - Surveillance				
All foodstuffs - at processing plant - Surveillance				
All foodstuffs - at processing plant - Surveillance				
All foodstuffs - at retail - Surveillance				
Bakery products - bread - at catering - Unspecified				
Bakery products - bread - at retail - Surveillance				
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance				
Bakery products - desserts - containing heat-treated cream - at retail - Surveillance				
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified				
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance				
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance				
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Bakery products - pastry - at catering - Surveillance				
Bakery products - pastry - at catering - Survey - national survey				
Bakery products - pastry - at catering - Unspecified				
Bakery products - pastry - at processing plant - Surveillance				
Bakery products - pastry - at processing plant - Surveillance				
Bakery products - pastry - at processing plant - Survey - national survey				
Bakery products - pastry - at processing plant - Unspecified				
Bakery products - pastry - at retail - Surveillance				
Bakery products - pastry - at retail - Unspecified				
Beverages, non-alcoholic - at catering - Surveillance				
Beverages, non-alcoholic - at processing plant - Surveillance				
Beverages, non-alcoholic - at retail - Surveillance				
Chocolate - at catering - Surveillance				
Chocolate - at retail - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Cocoa and cocoa preparations, coffee and tea - at catering - Surveillance				
Cocoa and cocoa preparations, coffee and tea - at processing plant - Surveillance				
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance				
Coconut - at processing plant - Surveillance				
Crustaceans - at processing plant - Surveillance				
Crustaceans - at processing plant - Surveillance				
Crustaceans - at processing plant - Unspecified				
Crustaceans - at retail - Surveillance				
Egg products - at catering - Surveillance				
Egg products - at processing plant - Surveillance				
Egg products - at retail - Surveillance				
Eggs - at catering - Surveillance				
Eggs - at catering - Unspecified				
Eggs - at farm - Surveillance				
Eggs - at farm - Surveillance				
Eggs - at farm - Survey - national survey				
Eggs - at farm - Unspecified				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Eggs - at farm - Unspecified				
Eggs - at processing plant - Surveillance				
Eggs - at processing plant - Surveillance				
Eggs - at processing plant - Surveillance				
Eggs - at processing plant - Surveillance				
Eggs - at processing plant - Survey - national survey				
Eggs - at processing plant - Unspecified				
Eggs - at retail - Surveillance				
Eggs - at retail - Surveillance				
Eggs - at retail - Surveillance				
Eggs - at retail - Survey - national survey				
Eggs - table eggs - at catering - Surveillance				
Eggs - table eggs - at farm - Surveillance				
Eggs - table eggs - at processing plant - Surveillance				
Eggs - table eggs - white - at processing plant - Surveillance				
Eggs - table eggs - yolk - at processing plant - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Fats and oils (excluding butter) - fats - at processing plant - Surveillance				
Fats and oils (excluding butter) - fats - at processing plant - Surveillance				
Fats and oils (excluding butter) - fats - at processing plant - Surveillance				
Fats and oils (excluding butter) - fats - at processing plant - Unspecified				
Fats and oils (excluding butter) - fats - at retail - Surveillance				
Fats and oils (excluding butter) - oils - at retail - Surveillance				
Fish - at catering - Surveillance				
Fish - at catering - Unspecified				
Fish - at farm - Surveillance				
Fish - at processing plant - Surveillance				
Fish - at processing plant - Surveillance				
Fish - at processing plant - Unspecified				
Fish - at retail - Surveillance				
Fish - at retail - Surveillance				
Fish - cooked - at catering - Surveillance				
Fish - marinated - at catering - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Fish - marinated - at processing plant - Surveillance				
Fish - unspecified - at catering - Surveillance				
Fish - unspecified - at catering - Surveillance				
Fish - unspecified - at catering - Survey - national survey				
Fish - unspecified - at catering - Unspecified				
Fish - unspecified - at farm - Surveillance				
Fish - unspecified - at processing plant - Surveillance				
Fish - unspecified - at processing plant - Surveillance	1			
Fish - unspecified - at processing plant - Surveillance				
Fish - unspecified - at processing plant - Survey - national survey				
Fish - unspecified - at retail - Surveillance				
Fish - unspecified - at retail - Surveillance				
Fish - unspecified - at retail - Survey - national survey				
Fishery products, unspecified - at catering - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Fishery products, unspecified - at catering - Unspecified				
Fishery products, unspecified - at farm - Surveillance				
Fishery products, unspecified - at processing plant - Surveillance				
Fishery products, unspecified - at processing plant - Surveillance				
Fishery products, unspecified - at processing plant - Survey - national survey				
Fishery products, unspecified - at processing plant - Unspecified				
Fishery products, unspecified - at retail - Surveillance		1		
Fishery products, unspecified - at retail - Unspecified				
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at catering - Unspecified				
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance				
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance				
Fruits - at catering - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Fruits - at processing plant - Surveillance				
Fruits - at retail - Surveillance				
Fruits - at retail - Unspecified				
Fruits - products - at retail - Surveillance				
Fruits - products - dried - at processing plant - Surveillance				
Fruits - products - dried - at retail - Surveillance				
Fruits and vegetables - products - at catering - Surveillance				
Fruits and vegetables - products - at processing plant - Surveillance				
Fruits and vegetables - products - at processing plant - Unspecified				
Fruits and vegetables - products - at retail - Surveillance				
Fruits and vegetables - products - at retail - Unspecified				
Honey - at catering - Surveillance				
Honey - at retail - Surveillance				
Infant formula - at catering - Surveillance				
Infant formula - at catering - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Infant formula - at processing plant - Surveillance				
Infant formula - at retail - Surveillance				
Infant formula - at retail - Surveillance				
Infant formula - liquid - at processing plant - Surveillance				
Infant formula - liquid - at retail - Surveillance				
Juice - fruit juice - at processing plant - Surveillance				
Juice - fruit juice - at retail - Surveillance				
Molluscan shellfish - at catering - Surveillance				
Molluscan shellfish - at catering - Surveillance				
Molluscan shellfish - at catering - Unspecified				
Molluscan shellfish - at farm - Surveillance				
Molluscan shellfish - at farm - Survey - national survey				
Molluscan shellfish - at processing plant - Surveillance				
Molluscan shellfish - at processing plant - Surveillance				
Molluscan shellfish - at processing plant - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Molluscan shellfish - at processing plant - Survey - national survey				
Molluscan shellfish - at processing plant - Unspecified				
Molluscan shellfish - at retail - Surveillance				
Molluscan shellfish - at retail - Surveillance				
Molluscan shellfish - at retail - Surveillance				
Molluscan shellfish - at retail - Survey - national survey				
Molluscan shellfish - at retail - Unspecified				
Other processed food products and prepared dishes - at catering - Surveillance				
Other processed food products and prepared dishes - at retail - Surveillance				
Other processed food products and prepared dishes - pasta - at catering - Surveillance				
Other processed food products and prepared dishes - pasta - at catering - Unspecified				
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance				
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance				
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified				
Other processed food products and prepared dishes - pasta - at retail - Surveillance				
Other processed food products and prepared dishes - pasta - at retail - Unspecified				
Other processed food products and prepared dishes - unspecified - at catering - Surveillance				
Other processed food products and prepared dishes - unspecified - at catering - Surveillance				
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey				
Other processed food products and prepared dishes - unspecified - at catering - Unspecified				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance			2	1

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey				
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified				
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	1			
Other processed food products and prepared dishes - unspecified - at retail - Surveillance				
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey				
Other processed food products and prepared dishes - unspecified - at retail - Unspecified				
Other processed food products and prepared dishes - unspecified - at retail - Unspecified				
Sauce and dressings - at catering - Surveillance				
Sauce and dressings - at catering - Unspecified				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Sauce and dressings - at processing plant - Surveillance				
Sauce and dressings - at retail - Surveillance				
Spices and herbs - at catering - Unspecified				
Spices and herbs - at processing plant - Surveillance				
Spices and herbs - at processing plant - Surveillance				
Spices and herbs - at retail - Surveillance				
Sweets - at catering - Surveillance				
Sweets - at catering - Survey - national survey				
Sweets - at processing plant - Surveillance				
Sweets - at retail - Surveillance				
Vegetables - at catering - Surveillance				
Vegetables - at catering - Surveillance				
Vegetables - at catering - Unspecified				
Vegetables - at farm - Surveillance				
Vegetables - at processing plant - Surveillance				
Vegetables - at processing plant - Surveillance				
Vegetables - at processing plant - Surveillance				

Table Salmonella in other food

	S. Typhimurium, monophasic	S. Warragul	S. Winston	S. enterica subsp. diarizonae
Vegetables - at processing plant - Survey - national survey				
Vegetables - at processing plant - Unspecified				
Vegetables - at retail - Surveillance				
Vegetables - at retail - Surveillance				
Vegetables - at retail - Survey - national survey				
Vegetables - at retail - Unspecified				

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	35	1		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	27	0		
Meat from bovine animals - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	14	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	20	0		
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	26	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Meat from sheep - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from horse - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from bovine animals - carcase - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	51	0		
Meat from bovine animals - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	61	0		
Meat from bovine animals - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	99	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	2		1
Meat from bovine animals - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0		
Meat from bovine animals - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	0		
Meat from bovine animals - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Meat from bovine animals - meat products - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	1		
Meat from bovine animals - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat products - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	1		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from bovine animals - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	14	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Meat from bovine animals - minced meat - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	19	0		
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	31	0		
Meat from bovine animals - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	54	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	16	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Meat from bovine animals - offal - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from bovine animals - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from horse - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from horse - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from horse - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from horse - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from horse - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - carcase - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - carcase - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	12	1		
Meat from other animal species or not specified - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	58	1		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	100	8	1	
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	41	4		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	18	2		1
Meat from other animal species or not specified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	140	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	132	1		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	88	1		1
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	26	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Meat from other animal species or not specified - meat preparation - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	26	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	44	4		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	157	15		2

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	20	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	56	3		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	164	6		2
Meat from other animal species or not specified - meat preparation - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	23	1		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	43	4		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	environmental sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	153	1		
Meat from other animal species or not specified - meat products - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	101	12		1

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	130	1		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	722	36		2
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	174	14		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	56	1		1
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	460	35		3
Meat from other animal species or not specified - meat products - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	20	0		
Meat from other animal species or not specified - meat products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	141	1		
Meat from other animal species or not specified - mechanically separated meat (MSM) - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	5		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - minced meat - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	58	4		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	49	5		5
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	180	5		1
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	135	0		
Meat from other animal species or not specified - offal - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	42	0		
Meat from other animal species or not specified - offal - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	31	2		
Meat from other animal species or not specified - offal - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - offal - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	12	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	96	1		1
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	70	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	47	1		
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	33	0		
Meat from other animal species or not specified - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	1		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	29	0		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from other animal species or not specified - offal - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	32	0		
Meat from other animal species or not specified - offal - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	12	1		
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	10	0		
Meat from pig - carcase - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	75	0		
Meat from pig - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	41	2		2
Meat from pig - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	220	3		
Meat from pig - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from pig - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Meat from pig - fresh - at slaughterhouse - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	4	0		
Meat from pig - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	1		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	51	2		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	173	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	134	7		
Meat from pig - meat preparation - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0		
Meat from pig - meat preparation - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	90	0		
Meat from pig - meat preparation - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	0		
Meat from pig - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	1		
Meat from pig - meat preparation - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - meat preparation - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Meat from pig - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	585	3		1
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	181	6		1

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from pig - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	328	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	217	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	27	4		
Meat from pig - minced meat - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Meat from pig - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	2		
Meat from pig - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0		
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from pig - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from pig - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	1		
Meat from pig - offal - liver - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1		1
Meat from rabbit - fresh - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Meat from rabbit - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from rabbit - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from sheep - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from sheep - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from sheep - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from wild boar - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		

Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from wild boar - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	1		
Meat from wild boar - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	0		
Meat from wild game - land mammals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Meat, mixed meat - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other products of animal origin - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from pig - fresh - at processing plant - Surveillance											
Meat from pig - fresh - at retail - Surveillance											
Meat from bovine animals - carcase - at slaughterhouse - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at retail - Surveillance											
Meat from horse - fresh - at retail - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											
Meat from bovine animals - carcase - at processing plant - Unspecified											
Meat from bovine animals - fresh - at catering - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											
Meat from bovine animals - fresh - at processing plant - Unspecified											
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from bovine animals - fresh - at retail - Unspecified											
Meat from bovine animals - meat preparation - at catering - Surveillance											
Meat from bovine animals - meat preparation - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from bovine animals - meat preparation - at processing plant - Surveillance											
Meat from bovine animals - meat preparation - at retail - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance											
Meat from bovine animals - meat products - at catering - Unspecified											
Meat from bovine animals - meat products - at processing plant - Unspecified											
Meat from bovine animals - meat products - at retail - Surveillance											
Meat from bovine animals - meat products - at retail - Survey - national survey											
Meat from bovine animals - minced meat - at catering - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Unspecified											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from bovine animals - minced meat - at retail - Surveillance											
Meat from bovine animals - minced meat - at retail - Unspecified											
Meat from bovine animals - offal - at processing plant - Surveillance											
Meat from bovine animals - offal - at processing plant - Surveillance											
Meat from bovine animals - offal - at processing plant - Survey - national survey											
Meat from bovine animals - offal - at processing plant - Unspecified											
Meat from bovine animals - offal - at retail - Surveillance											
Meat from bovine animals - offal - at slaughterhouse - Surveillance											
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from horse - meat preparation - at processing plant - Surveillance											
Meat from horse - meat products - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from horse - minced meat - at retail - Surveillance											
Meat from horse - offal - at processing plant - Surveillance											
Meat from horse - offal - at processing plant - Unspecified											
Meat from other animal species or not specified - carcase - at catering - Unspecified											
Meat from other animal species or not specified - carcase - at processing plant - Surveillance											
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance		1									
Meat from other animal species or not specified - fresh - at catering - Surveillance											
Meat from other animal species or not specified - fresh - at catering - Unspecified		1									
Meat from other animal species or not specified - fresh - at processing plant - Surveillance		1									
Meat from other animal species or not specified - fresh - at processing plant - Surveillance											
Meat from other animal species or not specified - fresh - at processing plant - Surveillance											
Meat from other animal species or not specified - fresh - at processing plant - Unspecified											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from other animal species or not specified - fresh - at retail - Surveillance											
Meat from other animal species or not specified - fresh - at retail - Surveillance											
Meat from other animal species or not specified - fresh - at retail - Survey - national survey											
Meat from other animal species or not specified - fresh - at retail - Unspecified											
Meat from other animal species or not specified - meat preparation - at catering - Surveillance											
Meat from other animal species or not specified - meat preparation - at catering - Unspecified											
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance											
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance		3			1					1	
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance											
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified											
Meat from other animal species or not specified - meat preparation - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from other animal species or not specified - meat preparation - at retail - Surveillance		1									
Meat from other animal species or not specified - meat preparation - at retail - Unspecified		1									
Meat from other animal species or not specified - meat products - at catering - Surveillance								1	1		
Meat from other animal species or not specified - meat products - at catering - Surveillance											
Meat from other animal species or not specified - meat products - at catering - Unspecified											
Meat from other animal species or not specified - meat products - at catering - Unspecified										1	
Meat from other animal species or not specified - meat products - at farm - Surveillance											
Meat from other animal species or not specified - meat products - at processing plant - Surveillance		3									
Meat from other animal species or not specified - meat products - at processing plant - Surveillance											
Meat from other animal species or not specified - meat products - at processing plant - Surveillance		5		1	1	1					1
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from other animal species or not specified - meat products - at processing plant - Unspecified											
Meat from other animal species or not specified - meat products - at retail - Surveillance											
Meat from other animal species or not specified - meat products - at retail - Surveillance		17					2				
Meat from other animal species or not specified - meat products - at retail - Survey - national survey											
Meat from other animal species or not specified - meat products - at retail - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at catering - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance											
Meat from other animal species or not specified - minced meat - at catering - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from other animal species or not specified - minced meat - at catering - Unspecified		2									
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey											
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified											
Meat from other animal species or not specified - minced meat - at retail - Surveillance					1						
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey											
Meat from other animal species or not specified - minced meat - at retail - Unspecified											
Meat from other animal species or not specified - offal - at catering - Surveillance											
Meat from other animal species or not specified - offal - at catering - Unspecified											
Meat from other animal species or not specified - offal - at farm - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from other animal species or not specified - offal - at farm - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance		1									
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Unspecified											
Meat from other animal species or not specified - offal - at retail - Surveillance											
Meat from other animal species or not specified - offal - at retail - Surveillance											
Meat from other animal species or not specified - offal - at retail - Survey - national survey											
Meat from other animal species or not specified - offal - at retail - Unspecified											
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance											
Meat from pig - carcase - at processing plant - Unspecified											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from pig - fresh - at catering - Surveillance											
Meat from pig - fresh - at processing plant - Surveillance											
Meat from pig - fresh - at processing plant - Unspecified			3								
Meat from pig - fresh - at retail - Unspecified											
Meat from pig - fresh - at slaughterhouse - Surveillance											
Meat from pig - fresh - at slaughterhouse - Unspecified											
Meat from pig - meat preparation - at catering - Surveillance		1									
Meat from pig - meat preparation - at processing plant - Surveillance		2									
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance		7									
Meat from pig - meat preparation - at processing plant - Survey - national survey											
Meat from pig - meat preparation - at processing plant - Unspecified											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from pig - meat preparation - at processing plant - Unspecified											
Meat from pig - meat preparation - at retail - Surveillance											
Meat from pig - meat preparation - at retail - Survey - national survey											
Meat from pig - meat preparation - at retail - Unspecified											
Meat from pig - meat products - at catering - Surveillance											
Meat from pig - meat products - at catering - Unspecified											
Meat from pig - meat products - at processing plant - Surveillance								1			
Meat from pig - meat products - at processing plant - Surveillance										1	
Meat from pig - meat products - at processing plant - Unspecified											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from pig - meat products - at retail - Unspecified											
Meat from pig - minced meat - at catering - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance											
Meat from pig - minced meat - at processing plant - Unspecified											
Meat from pig - minced meat - at retail - Surveillance											
Meat from pig - minced meat - at retail - Unspecified											
Meat from pig - offal - at processing plant - Surveillance											
Meat from pig - offal - at processing plant - Unspecified											
Meat from pig - offal - at retail - Surveillance											
Meat from pig - offal - at slaughterhouse - Surveillance		1									
Meat from pig - offal - liver - at processing plant - Surveillance											
Meat from rabbit - fresh - at farm - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - meat preparation - at processing plant - Surveillance											
Meat from sheep - meat preparation - at retail - Surveillance											
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance											
Meat from sheep - offal - at processing plant - Unspecified											
Meat from wild boar - fresh - at catering - Surveillance											
Meat from wild boar - fresh - at processing plant - Surveillance											
Meat from wild boar - fresh - at retail - Surveillance											
Meat from wild game - land mammals - fresh - at retail - Surveillance											
Meat, mixed meat - meat preparation - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Not typeable	S. 4,5,12:-:1,2	S. 4,5,12:i:-	S. Agona	S. Blockley	S. Bovismorbificans	S. Braenderup	S. Brandenburg	S. Bredeney
Other products of animal origin - at processing plant - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											
	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from pig - fresh - at processing plant - Surveillance											
Meat from pig - fresh - at retail - Surveillance											
Meat from bovine animals - carcase - at slaughterhouse - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at retail - Surveillance											
Meat from horse - fresh - at retail - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from bovine animals - carcase - at processing plant - Unspecified											
Meat from bovine animals - fresh - at catering - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											
Meat from bovine animals - fresh - at processing plant - Unspecified											
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from bovine animals - fresh - at retail - Unspecified											
Meat from bovine animals - meat preparation - at catering - Surveillance											
Meat from bovine animals - meat preparation - at processing plant - Surveillance											
Meat from bovine animals - meat preparation - at processing plant - Surveillance											
Meat from bovine animals - meat preparation - at retail - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance										1	

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from bovine animals - meat products - at catering - Unspecified											
Meat from bovine animals - meat products - at processing plant - Unspecified											
Meat from bovine animals - meat products - at retail - Surveillance											
Meat from bovine animals - meat products - at retail - Survey - national survey											
Meat from bovine animals - minced meat - at catering - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Unspecified											
Meat from bovine animals - minced meat - at retail - Surveillance											
Meat from bovine animals - minced meat - at retail - Unspecified											
Meat from bovine animals - offal - at processing plant - Surveillance											
Meat from bovine animals - offal - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from bovine animals - offal - at processing plant - Survey - national survey											
Meat from bovine animals - offal - at processing plant - Unspecified											
Meat from bovine animals - offal - at retail - Surveillance											
Meat from bovine animals - offal - at slaughterhouse - Surveillance											
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from horse - meat preparation - at processing plant - Surveillance											
Meat from horse - meat products - at retail - Surveillance											
Meat from horse - minced meat - at retail - Surveillance											
Meat from horse - offal - at processing plant - Surveillance											
Meat from horse - offal - at processing plant - Unspecified											
Meat from other animal species or not specified - carcase - at catering - Unspecified											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - carcase - at processing plant - Surveillance											
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance											
Meat from other animal species or not specified - fresh - at catering - Surveillance											
Meat from other animal species or not specified - fresh - at catering - Unspecified											
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	1								2		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	1						3				
Meat from other animal species or not specified - fresh - at processing plant - Surveillance							1		1		
Meat from other animal species or not specified - fresh - at processing plant - Unspecified											
Meat from other animal species or not specified - fresh - at retail - Surveillance											
Meat from other animal species or not specified - fresh - at retail - Surveillance											
Meat from other animal species or not specified - fresh - at retail - Survey - national survey											
Meat from other animal species or not specified - fresh - at retail - Unspecified											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - meat preparation - at catering - Surveillance											
Meat from other animal species or not specified - meat preparation - at catering - Unspecified											
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance											
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	5				1						
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance											
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified											
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	1								1		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance											
Meat from other animal species or not specified - meat preparation - at retail - Unspecified											
Meat from other animal species or not specified - meat products - at catering - Surveillance			1								
Meat from other animal species or not specified - meat products - at catering - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - meat products - at catering - Unspecified											
Meat from other animal species or not specified - meat products - at catering - Unspecified											
Meat from other animal species or not specified - meat products - at farm - Surveillance											
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	2				3						
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	1										
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	4								1		1
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey											
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	6	1									
Meat from other animal species or not specified - meat products - at retail - Surveillance											
Meat from other animal species or not specified - meat products - at retail - Surveillance	4				1	1				1	

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - meat products - at retail - Survey - national survey											
Meat from other animal species or not specified - meat products - at retail - Unspecified	1										
Meat from other animal species or not specified - mechanically separated meat (MSM) - at catering - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance					1				4		
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance											
Meat from other animal species or not specified - minced meat - at catering - Surveillance											
Meat from other animal species or not specified - minced meat - at catering - Unspecified	1				1						
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey											
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified											
Meat from other animal species or not specified - minced meat - at retail - Surveillance					1						
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey											
Meat from other animal species or not specified - minced meat - at retail - Unspecified											
Meat from other animal species or not specified - offal - at catering - Surveillance											
Meat from other animal species or not specified - offal - at catering - Unspecified											
Meat from other animal species or not specified - offal - at farm - Surveillance											
Meat from other animal species or not specified - offal - at farm - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Unspecified											
Meat from other animal species or not specified - offal - at retail - Surveillance											
Meat from other animal species or not specified - offal - at retail - Surveillance											
Meat from other animal species or not specified - offal - at retail - Survey - national survey											
Meat from other animal species or not specified - offal - at retail - Unspecified	1										
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance											
Meat from pig - carcase - at processing plant - Unspecified											
Meat from pig - fresh - at catering - Surveillance											
Meat from pig - fresh - at processing plant - Surveillance											
Meat from pig - fresh - at processing plant - Unspecified											
Meat from pig - fresh - at retail - Unspecified											
Meat from pig - fresh - at slaughterhouse - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from pig - fresh - at slaughterhouse - Unspecified											
Meat from pig - meat preparation - at catering - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Survey - national survey											
Meat from pig - meat preparation - at processing plant - Unspecified											
Meat from pig - meat preparation - at processing plant - Unspecified											
Meat from pig - meat preparation - at retail - Surveillance		1									
Meat from pig - meat preparation - at retail - Survey - national survey											
Meat from pig - meat preparation - at retail - Unspecified											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from pig - meat products - at catering - Surveillance											
Meat from pig - meat products - at catering - Unspecified											
Meat from pig - meat products - at processing plant - Surveillance				1							
Meat from pig - meat products - at processing plant - Surveillance	2	1									
Meat from pig - meat products - at processing plant - Unspecified											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Unspecified											
Meat from pig - minced meat - at catering - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance	1										

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from pig - minced meat - at processing plant - Unspecified											
Meat from pig - minced meat - at retail - Surveillance	1										
Meat from pig - minced meat - at retail - Unspecified											
Meat from pig - offal - at processing plant - Surveillance											
Meat from pig - offal - at processing plant - Unspecified											
Meat from pig - offal - at retail - Surveillance											
Meat from pig - offal - at slaughterhouse - Surveillance											
Meat from pig - offal - liver - at processing plant - Surveillance											
Meat from rabbit - fresh - at farm - Surveillance											
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - meat preparation - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Derby	S. Give	S. Gloucester	S. Goldcoast	S. Hadar	S. Haifa	S. Heidelberg	S. IV 43:z4,z23:-	S. Infantis	S. Kapemba	S. Kedougou
Meat from sheep - meat preparation - at retail - Surveillance											
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance											
Meat from sheep - offal - at processing plant - Unspecified											
Meat from wild boar - fresh - at catering - Surveillance											
Meat from wild boar - fresh - at processing plant - Surveillance								1			
Meat from wild boar - fresh - at retail - Surveillance											
Meat from wild game - land mammals - fresh - at retail - Surveillance											
Meat, mixed meat - meat preparation - at processing plant - Surveillance											
Other products of animal origin - at processing plant - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from pig - fresh - at processing plant - Surveillance							1				
Meat from pig - fresh - at retail - Surveillance											
Meat from bovine animals - carcase - at slaughterhouse - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at retail - Surveillance											
Meat from horse - fresh - at retail - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											
Meat from bovine animals - carcase - at processing plant - Unspecified											
Meat from bovine animals - fresh - at catering - Surveillance											
Meat from bovine animals - fresh - at processing plant - Surveillance											
Meat from bovine animals - fresh - at processing plant - Unspecified											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from bovine animals - fresh - at retail - Surveillance							1				
Meat from bovine animals - fresh - at retail - Unspecified											
Meat from bovine animals - meat preparation - at catering - Surveillance											
Meat from bovine animals - meat preparation - at processing plant - Surveillance											
Meat from bovine animals - meat preparation - at processing plant - Surveillance											
Meat from bovine animals - meat preparation - at retail - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance											
Meat from bovine animals - meat products - at catering - Surveillance											
Meat from bovine animals - meat products - at catering - Unspecified											
Meat from bovine animals - meat products - at processing plant - Unspecified											
Meat from bovine animals - meat products - at retail - Surveillance											
Meat from bovine animals - meat products - at retail - Survey - national survey											1

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from bovine animals - minced meat - at catering - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Surveillance											
Meat from bovine animals - minced meat - at processing plant - Unspecified											
Meat from bovine animals - minced meat - at retail - Surveillance											
Meat from bovine animals - minced meat - at retail - Unspecified											
Meat from bovine animals - offal - at processing plant - Surveillance											
Meat from bovine animals - offal - at processing plant - Surveillance											
Meat from bovine animals - offal - at processing plant - Survey - national survey											
Meat from bovine animals - offal - at processing plant - Unspecified											
Meat from bovine animals - offal - at retail - Surveillance											
Meat from bovine animals - offal - at slaughterhouse - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from deer (venison) - fresh - at processing plant - Surveillance											
Meat from horse - meat preparation - at processing plant - Surveillance											
Meat from horse - meat products - at retail - Surveillance											
Meat from horse - minced meat - at retail - Surveillance											
Meat from horse - offal - at processing plant - Surveillance											
Meat from horse - offal - at processing plant - Unspecified											
Meat from other animal species or not specified - carcase - at catering - Unspecified											
Meat from other animal species or not specified - carcase - at processing plant - Surveillance											
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance											
Meat from other animal species or not specified - fresh - at catering - Surveillance											
Meat from other animal species or not specified - fresh - at catering - Unspecified											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - fresh - at processing plant - Surveillance					1		1		1		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance											
Meat from other animal species or not specified - fresh - at processing plant - Surveillance											
Meat from other animal species or not specified - fresh - at processing plant - Unspecified											
Meat from other animal species or not specified - fresh - at retail - Surveillance		1									
Meat from other animal species or not specified - fresh - at retail - Surveillance											
Meat from other animal species or not specified - fresh - at retail - Survey - national survey											
Meat from other animal species or not specified - fresh - at retail - Unspecified											
Meat from other animal species or not specified - meat preparation - at catering - Surveillance											
Meat from other animal species or not specified - meat preparation - at catering - Unspecified											
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance					1			2		1	
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance			1								1

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance											
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified											
Meat from other animal species or not specified - meat preparation - at retail - Surveillance								1			
Meat from other animal species or not specified - meat preparation - at retail - Surveillance											3
Meat from other animal species or not specified - meat preparation - at retail - Unspecified											
Meat from other animal species or not specified - meat products - at catering - Surveillance											1
Meat from other animal species or not specified - meat products - at catering - Surveillance											
Meat from other animal species or not specified - meat products - at catering - Unspecified											
Meat from other animal species or not specified - meat products - at catering - Unspecified											
Meat from other animal species or not specified - meat products - at farm - Surveillance											
Meat from other animal species or not specified - meat products - at processing plant - Surveillance					1		1	1			

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - meat products - at processing plant - Surveillance											
Meat from other animal species or not specified - meat products - at processing plant - Surveillance		1	3	1			3				11
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey											
Meat from other animal species or not specified - meat products - at processing plant - Unspecified						2	1				4
Meat from other animal species or not specified - meat products - at retail - Surveillance											
Meat from other animal species or not specified - meat products - at retail - Surveillance					3		1				3
Meat from other animal species or not specified - meat products - at retail - Survey - national survey											
Meat from other animal species or not specified - meat products - at retail - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at catering - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance					2						

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Unspecified											
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance											
Meat from other animal species or not specified - minced meat - at catering - Surveillance											
Meat from other animal species or not specified - minced meat - at catering - Unspecified											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance											
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey											
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified											
Meat from other animal species or not specified - minced meat - at retail - Surveillance					1						1
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - minced meat - at retail - Unspecified											
Meat from other animal species or not specified - offal - at catering - Surveillance											
Meat from other animal species or not specified - offal - at catering - Unspecified	1										1
Meat from other animal species or not specified - offal - at farm - Surveillance											
Meat from other animal species or not specified - offal - at farm - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Surveillance											
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey											
Meat from other animal species or not specified - offal - at processing plant - Unspecified											1
Meat from other animal species or not specified - offal - at retail - Surveillance											
Meat from other animal species or not specified - offal - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from other animal species or not specified - offal - at retail - Survey - national survey											
Meat from other animal species or not specified - offal - at retail - Unspecified											
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance											
Meat from pig - carcase - at processing plant - Unspecified											
Meat from pig - fresh - at catering - Surveillance											
Meat from pig - fresh - at processing plant - Surveillance											
Meat from pig - fresh - at processing plant - Unspecified											
Meat from pig - fresh - at retail - Unspecified											
Meat from pig - fresh - at slaughterhouse - Surveillance											
Meat from pig - fresh - at slaughterhouse - Unspecified											
Meat from pig - meat preparation - at catering - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Surveillance											
Meat from pig - meat preparation - at processing plant - Survey - national survey											
Meat from pig - meat preparation - at processing plant - Unspecified											
Meat from pig - meat preparation - at processing plant - Unspecified											
Meat from pig - meat preparation - at retail - Surveillance											
Meat from pig - meat preparation - at retail - Survey - national survey											
Meat from pig - meat preparation - at retail - Unspecified											
Meat from pig - meat products - at catering - Surveillance											
Meat from pig - meat products - at catering - Unspecified											
Meat from pig - meat products - at processing plant - Surveillance											
Meat from pig - meat products - at processing plant - Surveillance						1					

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from pig - meat products - at processing plant - Unspecified											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - at retail - Unspecified											
Meat from pig - minced meat - at catering - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance											
Meat from pig - minced meat - at processing plant - Surveillance							3				
Meat from pig - minced meat - at processing plant - Unspecified											
Meat from pig - minced meat - at retail - Surveillance							2				
Meat from pig - minced meat - at retail - Unspecified											
Meat from pig - offal - at processing plant - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from pig - offal - at processing plant - Unspecified											
Meat from pig - offal - at retail - Surveillance											
Meat from pig - offal - at slaughterhouse - Surveillance											
Meat from pig - offal - liver - at processing plant - Surveillance											
Meat from rabbit - fresh - at farm - Surveillance											
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from rabbit - fresh - at processing plant - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance											
Meat from sheep - meat preparation - at processing plant - Surveillance											
Meat from sheep - meat preparation - at retail - Surveillance											
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance											
Meat from sheep - offal - at processing plant - Unspecified											
Meat from wild boar - fresh - at catering - Surveillance											

Table Salmonella in red meat and products thereof

	S. Kottbus	S. Livingstone	S. London	S. Muenchen	S. Newport	S. Panama	S. Rissen	S. Saintpaul	S. Tennessee	S. Thompson	S. Typhimurium, monophasic
Meat from wild boar - fresh - at processing plant - Surveillance											
Meat from wild boar - fresh - at retail - Surveillance											
Meat from wild game - land mammals - fresh - at retail - Surveillance											
Meat, mixed meat - meat preparation - at processing plant - Surveillance											
Other products of animal origin - at processing plant - Surveillance											
Other products of animal origin - gelatin and collagen - at processing plant - Surveillance											

2.1.3 Salmonella in animals

A. Salmonella spp. in Gallus Gallus - breeding flocks

Monitoring system

Methods of sampling (description of sampling techniques)

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Day-old chicks

At farm level according to the 2012 national control plan both faeces and dust may be collected. Sampling at hatchery is possible as well.

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Rearing period

At farm level according to the 2012 national control plan both faeces and dust may be collected. Sampling at hatchery is possible as well.

Breeding flocks: Production period

At farm level according to the 2012 national control plan both faeces and dust may be collected. Sampling at hatchery is possible as well.

Case definition

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Day-old chicks

Within the present report a case is defined as the recovery of any salmonella serovar in the sample tested

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Rearing period

Within the present report a case is defined as the recovery of any salmonella serovar in the sample tested

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Production period

Within the present report a case is defined as the recovery of any salmonella serovar in the sample tested

Diagnostic/analytical methods used

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Day-old chicks

ISO 6579-2002/Amd1:2007 is the diagnostic method for isolation to be used within the 2012 control plan; serotyping is performed following the White-Kaufmann-Le Minor scheme.

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Rearing period

ISO 6579-2002/Amd1:2007 is the diagnostic method for isolation to be used within the 2012 control plan; serotyping is performed following the White-Kaufmann-Le Minor scheme.

Breeding flocks (separate elite, grand parent and parent flocks when necessary): Production period

ISO 6579-2002/Amd1:2007 is the diagnostic method for isolation to be used within the 2012 control plan; serotyping is performed following the White-Kaufmann-Le Minor scheme.

Other preventive measures than vaccination in place

Breeding flocks (separate elite, grand parent and parent flocks when necessary)

Improvement of biosecurity measures

Control program/mechanisms

Recent actions taken to control the zoonoses

In order to decrease the prevalence of relevant salmonella serovar at animal level in the national territory it is applied a control programme which foresees the implementation of sanitary measures depending on the type of salmonella serovar identified. This control programme is based on samples taken by the food

business operator and by the competent authority.

Detailed information on the implementation of the control plan including testing scheme, information flow, analytical methods, vaccination policy and measures in case of positive findings are available in the following web pages:

http://www.izsvenezie.it/index.php?option=com_content&view=article&id=196&Itemid=339;

http://zoonosi.izs.it/pls/izs_zoo/zoo_gestmenu.zoo_index

Notification system in place

Identification of relevant salmonella serovars in samples taken in the framework of national control programmes applied at primary production level must be notified to the competent authority without undue delay.

All data must be reported in the national informative system.

National evaluation of the recent situation, the trends and sources of infection

According to the national control program in 2012 out of the 1339 breeding flocks of *Gallus gallus* eligible for sampling 1267 were tested. 1 flock tested positive for *S. Enteritidis* and/or *S. Typhimurium*.

B. Salmonella spp. in Gallus Gallus - broiler flocks

Other preventive measures than vaccination in place

Broiler flocks

Improvement of biosecurity measures

Control program/mechanisms

Recent actions taken to control the zoonoses

In order to decrease the prevalence of relevant salmonella serovar at animal level in the national territory it is applied a control programme which foresees the implementation of sanitary measures depending on the type of salmonella serovar identified. This control programme is based on samples taken by the food business operator and by the competent authority.

Detailed information on the implementation of the control plan including testing scheme, information flow, analytical methods, vaccination policy and measures in case of positive findings are available in the following web pages:

http://www.izsvenezie.it/index.php?option=com_content&view=article&id=196&Itemid=339;

http://zoonosi.izs.it/pls/izs_zoo/zoo_gestmenu.zoo_index

Notification system in place

Identification of relevant salmonella serovars in samples taken in the framework of national control programmes applied at primary production level must be notified to the competent authority without undue delay.

All data must be reported in the national informative system.

C. Salmonella spp. in Gallus Gallus - flocks of laying hens

Control program/mechanisms

Recent actions taken to control the zoonoses

In order to decrease the prevalence of relevant salmonella serovar at animal level in the national territory it is applied a control programme which foresees the implementation of sanitary measures depending on the type of salmonella serovar identified. This control programme is based on samples taken by the food business operator and by the competent authority.

Detailed information on the implementation of the control plan including testing scheme, information flow, analytical methods, vaccination policy and measures in case of positive findings are available in the following web pages:

http://www.izsvenezie.it/index.php?option=com_content&view=article&id=196&Itemid=339;

http://zoonosi.izs.it/pls/izs_zoo/zoo_gestmenu.zoo_index

Notification system in place

Identification of relevant salmonella serovars in samples taken in the framework of national control programmes applied at primary production level must be notified to the competent authority without undue delay.

All data must be reported in the national informative system.

D. Salmonella spp. in bovine animals

Monitoring system

Sampling strategy

There are no harmonized criteria for the sampling strategy at national level.

Case definition

Animals at farm

Within the present report a case corresponds to the isolation of any *Salmonella* serovar in samples of bovine origin.

Vaccination policy

None

Other preventive measures than vaccination in place

Application of biosecurity measures

Control program/mechanisms

The control program/strategies in place

There is no mandatory control plan to be applied at national level.

Measures in case of the positive findings or single cases

Sanitary measures are applied on a case by case basis according to the competent authority.

Notification system in place

Data must be reported in the national informative system

National evaluation of the recent situation, the trends and sources of infection

1383 samples have been collected for official controls (954) and for clinical investigations (271) or research studies (158) (different types of context).

Moreover most of the samples have been taken at the farm (717) and the slaughterhouse (655) levels; finally the sampling unit could be the single animal (833), the herd (523) or the holding (27). Among the 1383 tested samples 58 samples resulted positive to the following serotypes: *S. Typhimurium* (50), *S. 4,5,12:i:-* (4) and *S. Muenchen* (1); three out of the 58 positive samples were not serotyped.

E. Salmonella spp. in pigs

Monitoring system

Sampling strategy

Breeding herds

The monitoring of Salmonella spp. in pigs is based on sampling activities performed according to local epidemiological situation and is conditioned by the number of animals harvested locally (per region). Moreover the local veterinary services are allowed to collect samples for monitoring purposes to get information on the herd sanitary status on a case by case basis.

There is no harmonized criteria for the sampling strategy at national level.

Multiplying herds

The monitoring of Salmonella spp. in pigs is based on sampling activities performed according to local epidemiological situation and is conditioned by the number of animals harvested locally (per region). Moreover the local veterinary services are allowed to collect samples for monitoring purposes to get information on the herd sanitary status on a case by case basis.

There is no harmonized criteria for the sampling strategy at national level.

Fattening herds

The monitoring of Salmonella spp. in pigs is based on sampling activities performed according to local epidemiological situation and is conditioned by the number of animals harvested locally (per region). Moreover the local veterinary services are allowed to collect samples for monitoring purposes to get information on the herd sanitary status on a case by case basis.

There is no harmonized criteria for the sampling strategy at national level.

Methods of sampling (description of sampling techniques)

Breeding herds

No data on the sampling method is available .

Multiplying herds

No data on the sampling method is available .

Fattening herds at farm

No data on the sampling method is available .

Fattening herds at slaughterhouse (herd based approach)

No data on the sampling method is available .

Case definition

Breeding herds

within the present report a case corresponds to the isolation of any Salmonella serovar in the sample of pig origin.

Multiplying herds

within the present report a case corresponds to the isolation of any Salmonella serovar in the sample of pig origin.

Fattening herds at farm

within the present report a case corresponds to the isolation of any Salmonella serovar in the sample of pig origin.

Fattening herds at slaughterhouse (herd based approach)

within the present report a case corresponds to the isolation of any Salmonella serovar in the sample of

pig origin.

Diagnostic/analytical methods used

Breeding herds

Data not reported

Multiplying herds

Data not reported

Fattening herds at farm

Data not reported

Fattening herds at slaughterhouse (herd based approach)

Data not reported

Vaccination policy

Breeding herds

none

Multiplying herds

none

Fattening herds

none

Other preventive measures than vaccination in place

Breeding herds

application of biosecurity measures/HACCP

Multiplying herds

application of biosecurity measures/HACCP

Fattening herds

application of biosecurity measures/HACCP

Control program/mechanisms

The control program/strategies in place

Breeding herds

No control plans are mandatory applied at national level

Fattening herds

No control plans are mandatory applied at national level

Measures in case of the positive findings or single cases

sanitary measures are applied on a case by case basis according to the competent authority assessment.

Notification system in place

Data must be reported in the national informative system

National evaluation of the recent situation, the trends and sources of infection

476 samples have been collected for official control (n: 203), for clinical investigations (n: 270) and research studies (n: 3) (different types of context). Moreover, the sampling stage is represented mainly by the farm (n: 460), followed by the slaughterhouse (n: 7) or the food industry (n: 7); finally the sampling unit

could be the single animal (n: 425) or the farm (n: 50). Out of the 476 samples tested, 96 resulted positive for *Salmonella* spp.; the detected serotypes were: *S. Agona* (68), *S. London* (26), *S. Choleraesuis* (1) and *S. Rissen* (1).

F. Salmonella spp. in ducks - breeding flocks and meat production flocks

Monitoring system

Sampling strategy

Breeding flocks

The monitoring of Salmonella spp. in duck is based on sampling activities performed according to local epidemiological situation. Moreover the local veterinary services are allowed to collect samples for monitoring purposes to get information on ducks sanitary status on a case by case basis.

Meat production flocks

The monitoring of Salmonella spp. in duck is based on sampling activities performed according to local epidemiological situation. Moreover the local veterinary services are allowed to collect samples for monitoring purposes to get information on ducks sanitary status on a case by case basis.

Methods of sampling (description of sampling techniques)

Breeding flocks: Day-old chicks

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Breeding flocks: Rearing period

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Breeding flocks: Production period

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Meat production flocks: Day-old chicks

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Meat production flocks: Rearing period

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Meat production flocks: Before slaughter at farm

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Meat production flocks: At slaughter (flock based approach)

There is no harmonized criteria for the sampling strategy at national level.

No data on the sampling method is available .

Case definition

Breeding flocks: Day-old chicks

within the present report a case corresponds to the isolation of any Salmonella serovar in the sample of

duck origin.

Breeding flocks: Rearing period

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Breeding flocks: Production period

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Meat production flocks: Day-old chicks

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Meat production flocks: Rearing period

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Meat production flocks: Before slaughter at farm

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Meat production flocks: At slaughter (flock based approach)

within the present report a case corresponds to the isolation of any *Salmonella* serovar in the sample of duck origin.

Diagnostic/analytical methods used

Breeding flocks: Day-old chicks

Data not reported

Breeding flocks: Rearing period

Data not reported

Breeding flocks: Production period

Data not reported

Meat production flocks: Day-old chicks

Data not reported

Meat production flocks: Rearing period

Data not reported

Meat production flocks: Before slaughter at farm

Data not reported

Meat production flocks: At slaughter (flock based approach)

Data not reported

Other preventive measures than vaccination in place

Breeding flocks

application of biosecurity measures

Meat production flocks

application of biosecurity measures

Control program/mechanisms

The control program/strategies in place

Breeding flocks

There is no mandatory control strategy applied at national level

Meat production flocks

There is no mandatory control strategy applied at national level

Measures in case of the positive findings or single cases

sanitary measures are applied on a case by case basis according to the competent authority assessment.

Notification system in place

Data must be reported in the national informative system

National evaluation of the recent situation, the trends and sources of infection

21 samples were collected with two main purposes: clinical surveys (10) and official controls (9).

Moreover, samples were taken from farmed (14) and wild animals (5). Only one of the tested samples was positive for Salmonella Napoli.

G. Salmonella spp. in turkey - breeding flocks and meat production flocks

Control program/mechanisms

Recent actions taken to control the zoonoses

In order to decrease the prevalence of relevant salmonella serovar at animal level in the national territory it is applied a control programme which foresees the implementation of sanitary measures depending on the type of salmonella serovar identified. This control programme is based on samples taken by the food business operator and by the competent authority.

Detailed information on the implementation of the control plan including testing scheme, information flow, analytical methods, vaccination policy and measures in case of positive findings are available in the following web pages:

http://www.izsvenezie.it/index.php?option=com_content&view=article&id=196&Itemid=339;

http://zoonosi.izs.it/pls/izs_zoo/zoo_gestmenu.zoo_index

Notification system in place

Identification of relevant salmonella serovars in samples taken in the framework of national control programmes applied at primary production level must be notified to the competent authority without undue delay.

All data must be reported in the national informative system.

Table Salmonella in breeding flocks of Gallus gallus

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	2	0	
Gallus gallus (fowl) - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Holding	6	1	
Gallus gallus (fowl) - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	12	0	
Gallus gallus (fowl) - at farm - Survey - national survey		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	1	0	
Gallus gallus (fowl) - at retail - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	10	1	
Gallus gallus (fowl) - breeding flocks, unspecified - adult - at farm - Control and eradication programmes	1437		Census	Official and industry sampling		Domestic	yes	herd/flock	1111	181	1
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes			Census	Official and industry sampling		Domestic		herd/flock	64	1	
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes			Objective sampling	Official sampling		Domestic		herd/flock	3	0	
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes			Objective sampling	Official sampling		Domestic		herd/flock	1	0	
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes			Census	Official and industry sampling		Domestic		herd/flock	368	5	

Table Salmonella in breeding flocks of Gallus gallus

	S. Hadar	S. Infantis	S. Typhimurium	S. Virchow	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Other serovars	S. Agbeni	S. Anatum	S. Braenderup	S. Coeln
Gallus gallus (fowl) - at farm - Clinical investigations											
Gallus gallus (fowl) - at farm - Clinical investigations			1								
Gallus gallus (fowl) - at farm - Clinical investigations											
Gallus gallus (fowl) - at farm - Survey - national survey											
Gallus gallus (fowl) - at retail - Clinical investigations						1					
Gallus gallus (fowl) - breeding flocks, unspecified - adult - at farm - Control and eradication programmes		4				92	53			6	11
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes								1			
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes											
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes											
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes						2	2		1		

Table Salmonella in breeding flocks of Gallus gallus

	S. Mbandaka
Gallus gallus (fowl) - at farm - Clinical investigations	
Gallus gallus (fowl) - at farm - Clinical investigations	
Gallus gallus (fowl) - at farm - Clinical investigations	
Gallus gallus (fowl) - at farm - Survey - national survey	
Gallus gallus (fowl) - at retail - Clinical investigations	
Gallus gallus (fowl) - breeding flocks, unspecified - adult - at farm - Control and eradication programmes	14
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes	
Gallus gallus (fowl) - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes	
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes	
Gallus gallus (fowl) - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes	

Table Salmonella in breeding flocks of Gallus gallus

Table Salmonella in other birds

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Pigeons - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	7	0			
Guinea fowl - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	11	2			
Quails - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	104	22		2	
Birds - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	7	0			
Birds - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	211	0			
Birds - pet animals - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Birds - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Birds - wild - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	1			
Birds - wild - conservation facilities - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	510	9			
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	139	5		2	
Birds - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	551	9			
Birds - wild - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	1	0			
Birds - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	12	0			
Canary - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	4	0			
Canary - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	43	0			
Canary - at retail - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	1	1			

Table Salmonella in other birds

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Canary - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	17	0			
Falcons - at catering - Monitoring	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Animal	1	0			
Falcons - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Falcons - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Falcons - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Falcons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Guinea fowl - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	0			
Gulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Gulls - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Gulls - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Night herons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Parrots - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Parrots - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Parrots - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Parrots - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Parrots - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Partridges - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Partridges - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			

Table Salmonella in other birds

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Partridges - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	2			1
Peafowl - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Peafowl - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Pheasants - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	21	0			
Pheasants - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	62	0			
Pheasants - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Pheasants - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	1			
Pigeons - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	235	8		8	
Pigeons - at farm - Monitoring	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Animal	16	0			
Pigeons - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	11	0			
Pigeons - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Pigeons - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Pigeons - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	17	0			
Pigeons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1509	54		14	
Swans - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Swans - conservation facilities - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			

Table Salmonella in other birds

	Salmonella spp., unspecified	Not typeable	S. Agona	S. Hadar	S. Hermannswerder	S. Hessarek	S. Livingstone	S. Newport	S. Rissen
Pigeons - at farm - Monitoring									
Guinea fowl - at farm - Monitoring			2						
Quails - at farm - Monitoring	18						2		
Birds - pet animals - at farm - Clinical investigations									
Birds - pet animals - at retail - Clinical investigations									
Birds - pet animals - at retail - Monitoring									
Birds - wild - at farm - Clinical investigations									
Birds - wild - at retail - Clinical investigations						1			
Birds - wild - conservation facilities - Monitoring	7							1	1
Birds - wild - unspecified - Clinical investigations				1	1			1	
Birds - wild - unspecified - Monitoring	8							1	
Birds - wild - unspecified - Monitoring									
Birds - wild - unspecified - Survey - national survey									
Canary - at farm - Monitoring									
Canary - at retail - Clinical investigations									
Canary - at retail - Monitoring		1							
Canary - at retail - Survey - national survey									

Table Salmonella in other birds

	Salmonella spp., unspecified	Not typeable	S. Agona	S. Hadar	S. Hermannswe- der	S. Hessarek	S. Livingstone	S. Newport	S. Rissen
Falcons - at catering - Monitoring									
Falcons - at retail - Clinical investigations									
Falcons - at retail - Survey - national survey									
Falcons - unspecified - Clinical investigations									
Falcons - unspecified - Monitoring									
Guinea fowl - at farm - Monitoring									
Gulls - at farm - Clinical investigations									
Gulls - unspecified - Clinical investigations									
Gulls - unspecified - Monitoring									
Night herons - unspecified - Monitoring									
Parrots - at farm - Monitoring									
Parrots - at retail - Clinical investigations									
Parrots - at retail - Survey - national survey									
Parrots - pet animals - at retail - Clinical investigations									
Parrots - unspecified - Monitoring									
Partridges - at farm - Clinical investigations									
Partridges - at retail - Clinical investigations									
Partridges - unspecified - Monitoring	1								

Table Salmonella in other birds

	Salmonella spp., unspecified	Not typeable	S. Agona	S. Hadar	S. Hermannswerder	S. Hessarek	S. Livingstone	S. Newport	S. Rissen
Peafowl - at farm - Clinical investigations									
Peafowl - at retail - Monitoring									
Pheasants - at farm - Clinical investigations									
Pheasants - at farm - Monitoring									
Pheasants - at retail - Clinical investigations									
Pheasants - unspecified - Clinical investigations	1								
Pigeons - at farm - Clinical investigations									
Pigeons - at farm - Monitoring									
Pigeons - at retail - Clinical investigations									
Pigeons - at retail - Monitoring									
Pigeons - at slaughterhouse - Monitoring									
Pigeons - unspecified - Clinical investigations									
Pigeons - unspecified - Monitoring	39							1	
Swans - at farm - Monitoring									
Swans - conservation facilities - Monitoring									

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	6	1			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	21	0			
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	11	2		1	
Alpacas - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Badgers - at catering - Monitoring	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Animal	1	0			
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Badgers - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Cantabrian chamois - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	16	0			
Cats - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	29	6		6	
Cats - pet animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	9	0			
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	44	0			
Cats - pet animals - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Cats - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Cats - stray cats - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Cats - stray cats - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	1			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	26	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	64	1		1	
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	75	2			
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	1	0			
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	20	2			
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	78	0			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	16	1			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	29	0			
Cattle (bovine animals) - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	11	0			
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	538	5		1	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	0			
Cattle (bovine animals) - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	113	1			
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Cattle (bovine animals) - breeding bulls - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	5	0			
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	17	0			
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	7	0			
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	11	2		1	
Cattle (bovine animals) - dairy cows and heifers - at farm - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	herd/flock	294	42		42	
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	46	0			
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	13	0			
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	5	2			
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	9	0			
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Deer - wild - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Deer - wild - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Deer - wild - fallow deer - at farm - Monitoring	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Animal	1	0			
Deer - wild - red deer - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Deer - wild - red deer - conservation facilities - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Deer - wild - roe deer - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Deer - wild - roe deer - conservation facilities - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	43	1			
Deer - wild - roe deer - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	37	1			
Deer - wild - roe deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	79	2			
Deer - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Deer - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	20	0			
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	20	1			
Dogs - pet animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	49	2		1	1

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	139	2		1	
Dogs - pet animals - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	12	0			
Dogs - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Dogs - stray dogs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Dogs - stray dogs - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	10	2			
Dogs - stray dogs - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	10	0			
Fish - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	9	0			
Fish - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Fish - farmed - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	6	0			
Fish - farmed - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Foxes - wild - at catering - Monitoring	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Animal	1	0			
Foxes - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Foxes - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	1			
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	171	11		2	2
Foxes - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	157	3		2	

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	17	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	102	3			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	9	0			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	1	0			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	5	1			
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	12	0			
Goats - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Guinea pigs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Hares - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	13	0			
Hares - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	16	0			
Hares - wild - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	0			
Hares - wild - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Hares - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Hares - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	10	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Hares - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	1			
Hedgehogs - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Hedgehogs - wild - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Hedgehogs - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	19	6	6		
Hedgehogs - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	6	0			
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Monkeys - zoo animal - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	10	1			
Monkeys - zoo animal - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	0			
Mouflons - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Mouflons - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	22	0			
Other animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	3			
Other animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Other animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	0			
Other animals - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Other animals - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Other animals - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	17	0			
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	3	0			
Other animals - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Pet animals, all - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	1			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	46	1			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	221	26			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	1	0			
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	187	68			2
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	0			
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Pigs - at processing plant - Monitoring	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Animal	7	0			
Pigs - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	5	0			
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	1			
Pyrenean chamois - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Rabbits - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	7	0			
Rabbits - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Rabbits - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	4	0			
Rabbits - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	27	0			
Raccoon dogs - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Raccoons - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Rats - pet animal - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Rats - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	10	0			
Rats - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	41	0			
Reptiles - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Rodents - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	400	86			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	13	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	20	0			
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	40	1			
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	7	0			
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	11	0			
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	36	2			
Sheep - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Sheep - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	4	0			
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	10	1			
Sheep and goats - at farm - Monitoring	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Animal	1506	108			
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0			
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Solipeds, domestic - donkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Solipeds, domestic - donkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Solipeds, domestic - donkeys - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Solipeds, domestic - donkeys - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	3	0			
Solipeds, domestic - donkeys - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	4	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	4	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	14	0			
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Animal	20	0			
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	6	0			
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	1	0			
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Solipeds, domestic - horses - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Solipeds, domestic - horses - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Solipeds, domestic - horses - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	0			
Solipeds, domestic - horses - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Squirrels - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	56	0			
Turtles - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Turtles - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Turtles - at retail - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	2			
Turtles - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Turtles - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Turtles - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	150	0			
Voles - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	2	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	32	1		1	
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	2			
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Wild animals - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	4	1			
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	25	2		1	
Wild boars - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	1			
Wild boars - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			

Table Salmonella in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i:-
Wild boars - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	12	0			
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	6	0			
Wild boars - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Wild boars - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	124	0			
Wild boars - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	3	2			
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	114	0			
Wild boars - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Wild ducks - farmed - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	8	0			
	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Sheep - at farm - Monitoring				1							
Goats - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring	1										
Alpacas - at farm - Clinical investigations											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Badgers - at catering - Monitoring											
Badgers - unspecified - Monitoring											
Badgers - wild - unspecified - Monitoring											
Cantabrian chamois - unspecified - Survey - national survey											
Cats - pet animals - at farm - Clinical investigations											
Cats - pet animals - at farm - Monitoring											
Cats - pet animals - at retail - Clinical investigations											
Cats - pet animals - at retail - Monitoring											
Cats - pet animals - at retail - Survey - national survey											
Cats - stray cats - at retail - Clinical investigations											
Cats - stray cats - unspecified - Monitoring	1										
Cattle (bovine animals) - at farm - Clinical investigations											
Cattle (bovine animals) - at farm - Clinical investigations											
Cattle (bovine animals) - at farm - Clinical investigations	2										
Cattle (bovine animals) - at farm - Monitoring											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Cattle (bovine animals) - at farm - Monitoring		2									
Cattle (bovine animals) - at farm - Monitoring											
Cattle (bovine animals) - at farm - Survey - national survey	1										
Cattle (bovine animals) - at farm - Survey - national survey											
Cattle (bovine animals) - at retail - Clinical investigations											
Cattle (bovine animals) - at slaughterhouse - Monitoring	2										
Cattle (bovine animals) - at slaughterhouse - Monitoring											
Cattle (bovine animals) - at slaughterhouse - Survey - national survey											
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations											
Cattle (bovine animals) - breeding bulls - at farm - Monitoring											
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Monitoring		1									

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Cattle (bovine animals) - dairy cows and heifers - at farm - Monitoring											
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring		2									
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations											
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations											
Deer - wild - at farm - Monitoring											
Deer - wild - at slaughterhouse - Monitoring											
Deer - wild - fallow deer - at farm - Monitoring											
Deer - wild - red deer - at farm - Clinical investigations											
Deer - wild - red deer - conservation facilities - Monitoring											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Deer - wild - roe deer - at farm - Clinical investigations											
Deer - wild - roe deer - conservation facilities - Monitoring					1						
Deer - wild - roe deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Monitoring					1						
Deer - wild - roe deer - unspecified - Survey - national survey									2		
Deer - wild - unspecified - Monitoring											
Deer - wild - unspecified - Survey - national survey											
Dogs - pet animals - at farm - Clinical investigations	1										
Dogs - pet animals - at farm - Monitoring											
Dogs - pet animals - at retail - Clinical investigations											
Dogs - pet animals - at retail - Monitoring											
Dogs - pet animals - at retail - Survey - national survey											
Dogs - stray dogs - at farm - Survey - national survey											
Dogs - stray dogs - at retail - Clinical investigations	2										

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Dogs - stray dogs - unspecified - Monitoring											
Fish - at farm - Clinical investigations											
Fish - at retail - Clinical investigations											
Fish - farmed - at farm - Monitoring											
Fish - farmed - unspecified - Monitoring											
Foxes - wild - at catering - Monitoring											
Foxes - wild - at farm - Clinical investigations											
Foxes - wild - unspecified - Clinical investigations											
Foxes - wild - unspecified - Monitoring	2						2				
Foxes - wild - unspecified - Survey - national survey											
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations											
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations											
Goats - at farm - Clinical investigations											
Goats - at farm - Clinical investigations	2			1							
Goats - at farm - Clinical investigations											
Goats - at farm - Monitoring											
Goats - at farm - Monitoring	1										

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Goats - at farm - Survey - national survey											
Goats - at retail - Monitoring											
Guinea pigs - pet animals - at retail - Clinical investigations											
Hares - wild - at farm - Clinical investigations											
Hares - wild - at farm - Clinical investigations											
Hares - wild - at farm - Monitoring											
Hares - wild - at retail - Clinical investigations											
Hares - wild - unspecified - Clinical investigations											
Hares - wild - unspecified - Monitoring											
Hares - wild - unspecified - Survey - national survey	1										
Hedgehogs - wild - at farm - Clinical investigations											
Hedgehogs - wild - at farm - Survey - national survey											
Hedgehogs - wild - unspecified - Monitoring											
Hedgehogs - wild - unspecified - Survey - national survey											
Marten - wild - unspecified - Monitoring											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Monkeys - zoo animal - at farm - Clinical investigations			1								
Monkeys - zoo animal - at farm - Monitoring											
Mouflons - wild - at farm - Clinical investigations											
Mouflons - wild - unspecified - Survey - national survey											
Other animals - at farm - Clinical investigations											
Other animals - at farm - Monitoring											
Other animals - at retail - Clinical investigations											
Other animals - at retail - Monitoring											
Other animals - unspecified - Monitoring											
Other animals - wild - unspecified - Clinical investigations											
Other animals - wild - unspecified - Monitoring											
Other animals - wild - unspecified - Survey - national survey											
Pet animals, all - at farm - Monitoring	1										
Pigs - at farm - Clinical investigations										1	
Pigs - at farm - Clinical investigations											
Pigs - at farm - Clinical investigations											
Pigs - at farm - Monitoring	36					1		1			12

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Pigs - at farm - Monitoring											
Pigs - at farm - Survey - national survey											
Pigs - at processing plant - Monitoring											
Pigs - at retail - Clinical investigations											
Pigs - at slaughterhouse - Monitoring											
Pigs - at slaughterhouse - Monitoring											
Pyrenean chamois - wild - unspecified - Monitoring											
Rabbits - at farm - Clinical investigations											
Rabbits - at farm - Monitoring											
Rabbits - at farm - Monitoring											
Rabbits - at retail - Clinical investigations											
Raccoon dogs - wild - unspecified - Monitoring											
Raccoons - wild - unspecified - Clinical investigations											
Rats - pet animal - at retail - Clinical investigations											
Rats - wild - unspecified - Monitoring											
Rats - wild - unspecified - Survey - national survey											
Reptiles - at farm - Monitoring											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Rodents - wild - unspecified - Monitoring											
Sheep - at farm - Clinical investigations	20			61							
Sheep - at farm - Clinical investigations											
Sheep - at farm - Clinical investigations											
Sheep - at farm - Monitoring	1										
Sheep - at farm - Monitoring											
Sheep - at farm - Survey - national survey											
Sheep - at farm - Survey - national survey				2							
Sheep - at retail - Clinical investigations											
Sheep - at retail - Monitoring											
Sheep and goats - at farm - Clinical investigations											
Sheep and goats - at farm - Clinical investigations											
Sheep and goats - at farm - Monitoring											
Sheep and goats - at farm - Monitoring	1										
Sheep and goats - at farm - Monitoring				108							
Sheep and goats - at farm - Survey - national survey											
Sheep and goats - at farm - Survey - national survey											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Sheep and goats - at slaughterhouse - Monitoring											
Solipeds, domestic - donkeys - at farm - Clinical investigations											
Solipeds, domestic - donkeys - at farm - Clinical investigations											
Solipeds, domestic - donkeys - at farm - Monitoring											
Solipeds, domestic - donkeys - at farm - Monitoring											
Solipeds, domestic - donkeys - at retail - Monitoring											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Solipeds, domestic - horses - at farm - Survey - national survey											
Solipeds, domestic - horses - at retail - Clinical investigations											
Solipeds, domestic - horses - at retail - Clinical investigations											
Solipeds, domestic - horses - at retail - Monitoring											
Solipeds, domestic - horses - at retail - Survey - national survey											
Solipeds, domestic - horses - at slaughterhouse - Monitoring											
Squirrels - wild - unspecified - Survey - national survey											
Turtles - at farm - Monitoring											
Turtles - at retail - Clinical investigations											
Turtles - at retail - Monitoring											
Turtles - at retail - Survey - national survey											
Turtles - unspecified - Clinical investigations											
Turtles - unspecified - Monitoring											
Voles - wild - unspecified - Monitoring											
Water buffalos - at farm - Clinical investigations											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Water buffalos - at farm - Clinical investigations											
Water buffalos - at farm - Clinical investigations				1							
Water buffalos - at farm - Survey - national survey											
Wild animals - unspecified - Clinical investigations	1										
Wild animals - unspecified - Survey - national survey	1										
Wild boars - at farm - Monitoring								1			
Wild boars - at farm - Monitoring											
Wild boars - at retail - Survey - national survey											
Wild boars - at slaughterhouse - Monitoring											
Wild boars - at slaughterhouse - Survey - national survey											
Wild boars - unspecified - Clinical investigations											
Wild boars - unspecified - Monitoring										2	
Wild boars - unspecified - Survey - national survey											
Wild boars - wild - at farm - Clinical investigations											
Wild boars - wild - unspecified - Survey - national survey											

Table Salmonella in other animals

	Salmonella spp., unspecified	S. 4,5,12:i:-	S. Abony	S. Abortusovis	S. Agama	S. Agona	S. Braenderup	S. Brandenburg	S. Bredeney	S. Choleraesuis	S. Derby
Wild ducks - farmed - at farm - Monitoring											
	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Sheep - at farm - Monitoring											
Goats - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring											
Alpacas - at farm - Clinical investigations											
Badgers - at catering - Monitoring											
Badgers - unspecified - Monitoring											
Badgers - wild - unspecified - Monitoring											
Cantabrian chamois - unspecified - Survey - national survey											
Cats - pet animals - at farm - Clinical investigations											
Cats - pet animals - at farm - Monitoring											
Cats - pet animals - at retail - Clinical investigations											
Cats - pet animals - at retail - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Cats - pet animals - at retail - Survey - national survey											
Cats - stray cats - at retail - Clinical investigations											
Cats - stray cats - unspecified - Monitoring											
Cattle (bovine animals) - at farm - Clinical investigations											
Cattle (bovine animals) - at farm - Clinical investigations											
Cattle (bovine animals) - at farm - Clinical investigations											
Cattle (bovine animals) - at farm - Monitoring											
Cattle (bovine animals) - at farm - Monitoring											
Cattle (bovine animals) - at farm - Monitoring											
Cattle (bovine animals) - at farm - Survey - national survey											
Cattle (bovine animals) - at farm - Survey - national survey											
Cattle (bovine animals) - at retail - Clinical investigations											
Cattle (bovine animals) - at slaughterhouse - Monitoring										1	
Cattle (bovine animals) - at slaughterhouse - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Cattle (bovine animals) - at slaughterhouse - Survey - national survey						1					
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations											
Cattle (bovine animals) - breeding bulls - at farm - Monitoring											
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Monitoring											
Cattle (bovine animals) - dairy cows and heifers - at farm - Monitoring											
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring											
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations											
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations											
Deer - wild - at farm - Monitoring											
Deer - wild - at slaughterhouse - Monitoring											
Deer - wild - fallow deer - at farm - Monitoring											
Deer - wild - red deer - at farm - Clinical investigations											
Deer - wild - red deer - conservation facilities - Monitoring											
Deer - wild - roe deer - at farm - Clinical investigations											
Deer - wild - roe deer - conservation facilities - Monitoring											
Deer - wild - roe deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Monitoring											
Deer - wild - roe deer - unspecified - Survey - national survey											
Deer - wild - unspecified - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Deer - wild - unspecified - Survey - national survey											
Dogs - pet animals - at farm - Clinical investigations											
Dogs - pet animals - at farm - Monitoring											
Dogs - pet animals - at retail - Clinical investigations											1
Dogs - pet animals - at retail - Monitoring											
Dogs - pet animals - at retail - Survey - national survey											
Dogs - stray dogs - at farm - Survey - national survey											
Dogs - stray dogs - at retail - Clinical investigations											
Dogs - stray dogs - unspecified - Monitoring											
Fish - at farm - Clinical investigations											
Fish - at retail - Clinical investigations											
Fish - farmed - at farm - Monitoring											
Fish - farmed - unspecified - Monitoring											
Foxes - wild - at catering - Monitoring											
Foxes - wild - at farm - Clinical investigations											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Foxes - wild - unspecified - Clinical investigations			1								
Foxes - wild - unspecified - Monitoring											
Foxes - wild - unspecified - Survey - national survey											
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations											
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations											
Goats - at farm - Clinical investigations											
Goats - at farm - Clinical investigations											
Goats - at farm - Clinical investigations											
Goats - at farm - Monitoring											
Goats - at farm - Monitoring											
Goats - at farm - Survey - national survey											
Goats - at retail - Monitoring											
Guinea pigs - pet animals - at retail - Clinical investigations											
Hares - wild - at farm - Clinical investigations											
Hares - wild - at farm - Clinical investigations											
Hares - wild - at farm - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Hares - wild - at retail - Clinical investigations											
Hares - wild - unspecified - Clinical investigations											
Hares - wild - unspecified - Monitoring											
Hares - wild - unspecified - Survey - national survey											
Hedgehogs - wild - at farm - Clinical investigations											
Hedgehogs - wild - at farm - Survey - national survey											
Hedgehogs - wild - unspecified - Monitoring											
Hedgehogs - wild - unspecified - Survey - national survey											
Marten - wild - unspecified - Monitoring											
Monkeys - zoo animal - at farm - Clinical investigations											
Monkeys - zoo animal - at farm - Monitoring											
Mouflons - wild - at farm - Clinical investigations											
Mouflons - wild - unspecified - Survey - national survey											
Other animals - at farm - Clinical investigations									1		
Other animals - at farm - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Other animals - at retail - Clinical investigations											
Other animals - at retail - Monitoring											
Other animals - unspecified - Monitoring											
Other animals - wild - unspecified - Clinical investigations											
Other animals - wild - unspecified - Monitoring											
Other animals - wild - unspecified - Survey - national survey											
Pet animals, all - at farm - Monitoring											
Pigs - at farm - Clinical investigations											
Pigs - at farm - Clinical investigations					25					1	
Pigs - at farm - Clinical investigations											
Pigs - at farm - Monitoring	2	11		1	1			1			
Pigs - at farm - Monitoring											
Pigs - at farm - Survey - national survey											
Pigs - at processing plant - Monitoring											
Pigs - at retail - Clinical investigations											
Pigs - at slaughterhouse - Monitoring											
Pigs - at slaughterhouse - Monitoring								1			

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Pyrenean chamois - wild - unspecified - Monitoring											
Rabbits - at farm - Clinical investigations											
Rabbits - at farm - Monitoring											
Rabbits - at farm - Monitoring											
Rabbits - at retail - Clinical investigations											
Raccoon dogs - wild - unspecified - Monitoring											
Raccoons - wild - unspecified - Clinical investigations											
Rats - pet animal - at retail - Clinical investigations											
Rats - wild - unspecified - Monitoring											
Rats - wild - unspecified - Survey - national survey											
Reptiles - at farm - Monitoring											
Rodents - wild - unspecified - Monitoring											
Sheep - at farm - Clinical investigations											
Sheep - at farm - Clinical investigations											
Sheep - at farm - Clinical investigations											
Sheep - at farm - Monitoring											
Sheep - at farm - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Sheep - at farm - Survey - national survey											
Sheep - at farm - Survey - national survey											
Sheep - at retail - Clinical investigations											
Sheep - at retail - Monitoring											
Sheep and goats - at farm - Clinical investigations											
Sheep and goats - at farm - Clinical investigations											
Sheep and goats - at farm - Monitoring											
Sheep and goats - at farm - Monitoring											
Sheep and goats - at farm - Monitoring											
Sheep and goats - at farm - Survey - national survey											
Sheep and goats - at farm - Survey - national survey											
Sheep and goats - at slaughterhouse - Monitoring											
Solipeds, domestic - donkeys - at farm - Clinical investigations											
Solipeds, domestic - donkeys - at farm - Clinical investigations											
Solipeds, domestic - donkeys - at farm - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Solipeds, domestic - donkeys - at farm - Monitoring											
Solipeds, domestic - donkeys - at retail - Monitoring											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Clinical investigations											
Solipeds, domestic - horses - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Monitoring											
Solipeds, domestic - horses - at farm - Survey - national survey											
Solipeds, domestic - horses - at retail - Clinical investigations											
Solipeds, domestic - horses - at retail - Clinical investigations											
Solipeds, domestic - horses - at retail - Monitoring											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Solipeds, domestic - horses - at retail - Survey - national survey											
Solipeds, domestic - horses - at slaughterhouse - Monitoring											
Squirrels - wild - unspecified - Survey - national survey											
Turtles - at farm - Monitoring											
Turtles - at retail - Clinical investigations											
Turtles - at retail - Monitoring							1				
Turtles - at retail - Survey - national survey											
Turtles - unspecified - Clinical investigations											
Turtles - unspecified - Monitoring											
Voies - wild - unspecified - Monitoring											
Water buffalos - at farm - Clinical investigations											
Water buffalos - at farm - Clinical investigations											
Water buffalos - at farm - Clinical investigations								1			
Water buffalos - at farm - Survey - national survey											
Wild animals - unspecified - Clinical investigations											
Wild animals - unspecified - Survey - national survey											

Table Salmonella in other animals

	S. Goettingen	S. Goldcoast	S. Hessarek	S. Infantis	S. London	S. Muenchen	S. Poona	S. Rissen	S. Teddington	S. Typhimurium, monophasic	S. Umbilo
Wild boars - at farm - Monitoring											
Wild boars - at farm - Monitoring											
Wild boars - at retail - Survey - national survey											
Wild boars - at slaughterhouse - Monitoring											
Wild boars - at slaughterhouse - Survey - national survey											
Wild boars - unspecified - Clinical investigations											
Wild boars - unspecified - Monitoring											
Wild boars - unspecified - Survey - national survey											
Wild boars - wild - at farm - Clinical investigations											
Wild boars - wild - unspecified - Survey - national survey											
Wild ducks - farmed - at farm - Monitoring											
	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae				
Sheep - at farm - Monitoring											
Goats - at farm - Monitoring											

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Solipeds, domestic - horses - at farm - Monitoring							
Alpacas - at farm - Clinical investigations							
Badgers - at catering - Monitoring							
Badgers - unspecified - Monitoring							
Badgers - wild - unspecified - Monitoring							
Cantabrian chamois - unspecified - Survey - national survey							
Cats - pet animals - at farm - Clinical investigations							
Cats - pet animals - at farm - Monitoring							
Cats - pet animals - at retail - Clinical investigations							
Cats - pet animals - at retail - Monitoring							
Cats - pet animals - at retail - Survey - national survey							
Cats - stray cats - at retail - Clinical investigations							
Cats - stray cats - unspecified - Monitoring							
Cattle (bovine animals) - at farm - Clinical investigations							
Cattle (bovine animals) - at farm - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Cattle (bovine animals) - at farm - Clinical investigations							
Cattle (bovine animals) - at farm - Monitoring							
Cattle (bovine animals) - at farm - Monitoring							
Cattle (bovine animals) - at farm - Monitoring							
Cattle (bovine animals) - at farm - Survey - national survey							
Cattle (bovine animals) - at farm - Survey - national survey							
Cattle (bovine animals) - at retail - Clinical investigations							
Cattle (bovine animals) - at slaughterhouse - Monitoring		1					
Cattle (bovine animals) - at slaughterhouse - Monitoring							
Cattle (bovine animals) - at slaughterhouse - Survey - national survey							
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations							
Cattle (bovine animals) - breeding bulls - at farm - Monitoring							
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations							
Cattle (bovine animals) - dairy cows - at farm - Monitoring							
Cattle (bovine animals) - dairy cows and heifers - at farm - Monitoring							
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations							
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations							
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring							
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations							
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations							
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations							
Deer - wild - at farm - Monitoring							
Deer - wild - at slaughterhouse - Monitoring							
Deer - wild - fallow deer - at farm - Monitoring							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Deer - wild - red deer - at farm - Clinical investigations							
Deer - wild - red deer - conservation facilities - Monitoring							
Deer - wild - roe deer - at farm - Clinical investigations							
Deer - wild - roe deer - conservation facilities - Monitoring							
Deer - wild - roe deer - unspecified - Clinical investigations							
Deer - wild - roe deer - unspecified - Monitoring							
Deer - wild - roe deer - unspecified - Survey - national survey							
Deer - wild - unspecified - Monitoring							
Deer - wild - unspecified - Survey - national survey							
Dogs - pet animals - at farm - Clinical investigations							
Dogs - pet animals - at farm - Monitoring							
Dogs - pet animals - at retail - Clinical investigations							
Dogs - pet animals - at retail - Monitoring							
Dogs - pet animals - at retail - Survey - national survey							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Dogs - stray dogs - at farm - Survey - national survey							
Dogs - stray dogs - at retail - Clinical investigations							
Dogs - stray dogs - unspecified - Monitoring							
Fish - at farm - Clinical investigations							
Fish - at retail - Clinical investigations							
Fish - farmed - at farm - Monitoring							
Fish - farmed - unspecified - Monitoring							
Foxes - wild - at catering - Monitoring							
Foxes - wild - at farm - Clinical investigations							
Foxes - wild - unspecified - Clinical investigations							
Foxes - wild - unspecified - Monitoring	1		2				
Foxes - wild - unspecified - Survey - national survey						1	
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations							
Gallus gallus (fowl) - unspecified - day-old chicks - at farm - Clinical investigations							
Goats - at farm - Clinical investigations							
Goats - at farm - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Goats - at farm - Clinical investigations							
Goats - at farm - Monitoring							
Goats - at farm - Monitoring							
Goats - at farm - Survey - national survey							
Goats - at retail - Monitoring							
Guinea pigs - pet animals - at retail - Clinical investigations							
Hares - wild - at farm - Clinical investigations							
Hares - wild - at farm - Clinical investigations							
Hares - wild - at farm - Monitoring							
Hares - wild - at retail - Clinical investigations							
Hares - wild - unspecified - Clinical investigations							
Hares - wild - unspecified - Monitoring							
Hares - wild - unspecified - Survey - national survey							
Hedgehogs - wild - at farm - Clinical investigations							
Hedgehogs - wild - at farm - Survey - national survey							
Hedgehogs - wild - unspecified - Monitoring							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Hedgehogs - wild - unspecified - Survey - national survey							
Marten - wild - unspecified - Monitoring							
Monkeys - zoo animal - at farm - Clinical investigations							
Monkeys - zoo animal - at farm - Monitoring							
Mouflons - wild - at farm - Clinical investigations							
Mouflons - wild - unspecified - Survey - national survey							
Other animals - at farm - Clinical investigations				1	1		
Other animals - at farm - Monitoring							
Other animals - at retail - Clinical investigations							
Other animals - at retail - Monitoring							
Other animals - unspecified - Monitoring							
Other animals - wild - unspecified - Clinical investigations							
Other animals - wild - unspecified - Monitoring							
Other animals - wild - unspecified - Survey - national survey							
Pet animals, all - at farm - Monitoring							
Pigs - at farm - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Pigs - at farm - Clinical investigations							
Pigs - at farm - Clinical investigations							
Pigs - at farm - Monitoring							
Pigs - at farm - Monitoring							
Pigs - at farm - Survey - national survey							
Pigs - at processing plant - Monitoring							
Pigs - at retail - Clinical investigations							
Pigs - at slaughterhouse - Monitoring							
Pigs - at slaughterhouse - Monitoring							
Pyrenean chamois - wild - unspecified - Monitoring							
Rabbits - at farm - Clinical investigations							
Rabbits - at farm - Monitoring							
Rabbits - at farm - Monitoring							
Rabbits - at retail - Clinical investigations							
Raccoon dogs - wild - unspecified - Monitoring							
Raccoons - wild - unspecified - Clinical investigations							
Rats - pet animal - at retail - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Rats - wild - unspecified - Monitoring							
Rats - wild - unspecified - Survey - national survey							
Reptiles - at farm - Monitoring							
Rodents - wild - unspecified - Monitoring							
Sheep - at farm - Clinical investigations	1				4		
Sheep - at farm - Clinical investigations							
Sheep - at farm - Clinical investigations							
Sheep - at farm - Monitoring							
Sheep - at farm - Monitoring							
Sheep - at farm - Survey - national survey							
Sheep - at farm - Survey - national survey							
Sheep - at retail - Clinical investigations							
Sheep - at retail - Monitoring							
Sheep and goats - at farm - Clinical investigations							
Sheep and goats - at farm - Clinical investigations							
Sheep and goats - at farm - Monitoring							
Sheep and goats - at farm - Monitoring							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Sheep and goats - at farm - Monitoring							
Sheep and goats - at farm - Survey - national survey							
Sheep and goats - at farm - Survey - national survey							
Sheep and goats - at slaughterhouse - Monitoring							
Solipeds, domestic - donkeys - at farm - Clinical investigations							
Solipeds, domestic - donkeys - at farm - Clinical investigations							
Solipeds, domestic - donkeys - at farm - Monitoring							
Solipeds, domestic - donkeys - at farm - Monitoring							
Solipeds, domestic - donkeys - at retail - Monitoring							
Solipeds, domestic - horses - at farm - Clinical investigations							
Solipeds, domestic - horses - at farm - Clinical investigations							
Solipeds, domestic - horses - at farm - Clinical investigations							
Solipeds, domestic - horses - at farm - Monitoring							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Solipeds, domestic - horses - at farm - Monitoring							
Solipeds, domestic - horses - at farm - Monitoring							
Solipeds, domestic - horses - at farm - Survey - national survey							
Solipeds, domestic - horses - at retail - Clinical investigations							
Solipeds, domestic - horses - at retail - Clinical investigations							
Solipeds, domestic - horses - at retail - Monitoring							
Solipeds, domestic - horses - at retail - Survey - national survey							
Solipeds, domestic - horses - at slaughterhouse - Monitoring							
Squirrels - wild - unspecified - Survey - national survey							
Turtles - at farm - Monitoring							
Turtles - at retail - Clinical investigations							
Turtles - at retail - Monitoring							1
Turtles - at retail - Survey - national survey							
Turtles - unspecified - Clinical investigations							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Turtles - unspecified - Monitoring							
Voies - wild - unspecified - Monitoring							
Water buffalos - at farm - Clinical investigations							
Water buffalos - at farm - Clinical investigations							
Water buffalos - at farm - Clinical investigations							
Water buffalos - at farm - Survey - national survey							
Wild animals - unspecified - Clinical investigations							
Wild animals - unspecified - Survey - national survey							
Wild boars - at farm - Monitoring							
Wild boars - at farm - Monitoring							
Wild boars - at retail - Survey - national survey							
Wild boars - at slaughterhouse - Monitoring							
Wild boars - at slaughterhouse - Survey - national survey							
Wild boars - unspecified - Clinical investigations							
Wild boars - unspecified - Monitoring							
Wild boars - unspecified - Survey - national survey							

Table Salmonella in other animals

	S. Veneziana	S. Virchow	S. Zaiman	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. houtenae	S. enterica subsp. salamae
Wild boars - wild - at farm - Clinical investigations							
Wild boars - wild - unspecified - Survey - national survey							
Wild ducks - farmed - at farm - Monitoring							

Table Salmonella in other poultry

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes ¹⁾	2995		Census	Official and industry sampling		Domestic	yes	herd/flock	2772	197	40
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	19631		Suspect sampling	Official sampling		Domestic	yes	herd/flock	29	7	
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	19631		Objective sampling	Official sampling		Domestic	yes	herd/flock	793	107	
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	19631		Census	Industry sampling		Domestic	yes	herd/flock	17962	1952	
Turkeys - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes			Census	Industry sampling		Domestic		herd/flock	3	0	
Turkeys - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes			Census	Industry sampling		Domestic		herd/flock	34	10	
Turkeys - breeding flocks, unspecified - adult - at farm - Control and eradication programmes	276		Census	Official and industry sampling		Domestic	yes	herd/flock	276	61	
Ducks - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	6	1	
Ducks - at farm - Monitoring		Sinzoo	Unspecified	Official sampling	animal sample	Domestic		Animal	7	0	
Ducks - at farm - Survey - national survey		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	1	0	
Ducks - at retail - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	2	0	
Ducks - conservation facilities - Monitoring		Sinzoo	Unspecified	Official sampling	animal sample	Domestic		Animal	3	0	
Ducks - unspecified - Clinical investigations		Sinzoo	Unspecified	Not applicable		Domestic		Animal	2	0	

Table Salmonella in other poultry

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - broilers - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	21	1	
Gallus gallus (fowl) - broilers - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	12	0	
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	19631		Census	Official and industry sampling		Domestic	yes	herd/flock	18721	2064	
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	11	0	
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	26	1	
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ²⁾			Census	Official and industry sampling		Domestic		herd/flock	390	12	1
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ³⁾			Suspect sampling	Official sampling		Domestic		herd/flock	9	4	
Geese - breeding flocks, unspecified - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	2	0	
Poultry, unspecified - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	72	0	
Poultry, unspecified - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	2	0	
Poultry, unspecified - at farm - Monitoring		Sinzoo	Unspecified	Official sampling	animal sample	Domestic		Animal	6	0	
Poultry, unspecified - at farm - Monitoring		Sinzoo	Census	Official sampling	animal sample	Domestic		herd/flock	4	0	

Table Salmonella in other poultry

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Poultry, unspecified - at farm - Survey - national survey		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	2	0	
Poultry, unspecified - at slaughterhouse - Monitoring		Sinzoo	Unspecified	Official sampling	animal sample	Domestic		Animal	3	0	
Turkeys - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	4	0	
Turkeys - at farm - Clinical investigations		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		Animal	11	0	
Turkeys - at farm - Monitoring		Sinzoo	Unspecified	Official sampling	animal sample	Domestic		Animal	1	0	
Turkeys - at farm - Survey - national survey		Sinzoo	Unspecified	Not applicable	animal sample	Domestic		herd/flock	1	0	
Turkeys - breeding flocks, unspecified - before slaughter - at farm - Control and eradication programmes	4858		Census	Official and industry sampling		Domestic	yes	herd/flock	4858	1234	
	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Other serovars	S. Agona	S. Albany	S. Blockley	S. Braenderup	S. Gallinarum	S. Hadar	S. Infantis
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes ¹⁾	3	5		77	10			22			13
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes											
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		1		32						3	16
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes			28	447						33	125

Table Salmonella in other poultry

	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Other serovars	S. Agona	S. Albany	S. Blockley	S. Braenderup	S. Gallinarum	S. Hadar	S. Infantis
Turkeys - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes											
Turkeys - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes			6	4							
Turkeys - breeding flocks, unspecified - adult - at farm - Control and eradication programmes			46	7			8				
Ducks - at farm - Clinical investigations											
Ducks - at farm - Monitoring											
Ducks - at farm - Survey - national survey											
Ducks - at retail - Clinical investigations											
Ducks - conservation facilities - Monitoring											
Ducks - unspecified - Clinical investigations											
Gallus gallus (fowl) - broilers - at farm - Clinical investigations			1								
Gallus gallus (fowl) - broilers - at farm - Clinical investigations											
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		1	26	479						42	141
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations											
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations									1		

Table Salmonella in other poultry

	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Other serovars	S. Agona	S. Albany	S. Blockley	S. Braenderup	S. Gallinarum	S. Hadar	S. Infantis
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ²⁾	1			7		2					1
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ³⁾				4							
Geese - breeding flocks, unspecified - at farm - Clinical investigations											
Poultry, unspecified - at farm - Clinical investigations											
Poultry, unspecified - at farm - Clinical investigations											
Poultry, unspecified - at farm - Monitoring											
Poultry, unspecified - at farm - Monitoring											
Poultry, unspecified - at farm - Survey - national survey											
Poultry, unspecified - at slaughterhouse - Monitoring											
Turkeys - at farm - Clinical investigations											
Turkeys - at farm - Clinical investigations											
Turkeys - at farm - Monitoring											
Turkeys - at farm - Survey - national survey											

Table Salmonella in other poultry

	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	Other serovars	S. Agona	S. Albany	S. Blockley	S. Braenderup	S. Gallinarum	S. Hadar	S. Infantis
Turkeys - breeding flocks, unspecified - before slaughter - at farm - Control and eradication programmes	2	12		467			316			32	5

	S. Kentucky	S. Livingstone	S. Mbandaka	S. Napoli	S. Newport	S. Saintpaul	S. Thompson	S. Virchow
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes ¹⁾	23						11	2
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		6	1					
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		9	32				12	2
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		278	864				175	2
Turkeys - breeding flocks, unspecified - day-old chicks - at farm - Control and eradication programmes								
Turkeys - breeding flocks, unspecified - during rearing period - at farm - Control and eradication programmes								
Turkeys - breeding flocks, unspecified - adult - at farm - Control and eradication programmes								
Ducks - at farm - Clinical investigations				1				
Ducks - at farm - Monitoring								

Table Salmonella in other poultry

	S. Kentucky	S. Livingstone	S. Mbandaka	S. Napoli	S. Newport	S. Saintpaul	S. Thompson	S. Virchow
Ducks - at farm - Survey - national survey								
Ducks - at retail - Clinical investigations								
Ducks - conservation facilities - Monitoring								
Ducks - unspecified - Clinical investigations								
Gallus gallus (fowl) - broilers - at farm - Clinical investigations								
Gallus gallus (fowl) - broilers - at farm - Clinical investigations								
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes		287	897				187	4
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations								
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations	1							
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ²⁾							2	
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes ³⁾							1	
Geese - breeding flocks, unspecified - at farm - Clinical investigations								
Poultry, unspecified - at farm - Clinical investigations								

Table Salmonella in other poultry

	S. Kentucky	S. Livingstone	S. Mbandaka	S. Napoli	S. Newport	S. Saintpaul	S. Thompson	S. Virchow
Poultry, unspecified - at farm - Clinical investigations								
Poultry, unspecified - at farm - Monitoring								
Poultry, unspecified - at farm - Monitoring								
Poultry, unspecified - at farm - Survey - national survey								
Poultry, unspecified - at slaughterhouse - Monitoring								
Turkeys - at farm - Clinical investigations								
Turkeys - at farm - Clinical investigations								
Turkeys - at farm - Monitoring								
Turkeys - at farm - Survey - national survey								
Turkeys - breeding flocks, unspecified - before slaughter - at farm - Control and eradication programmes					257	196		

Comments:

- ¹⁾ some flocks resulted positive to more than one serotype
- ²⁾ some flocks resulted positive to more than one serotype
- ³⁾ some flocks resulted positive to more than one serotype

2.1.4 Salmonella in feedingstuffs

Table Salmonella in compound feedingstuffs

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Compound feedingstuffs for cattle - at farm - Surveillance	Sinzoo	Census	Official sampling	feed sample	Domestic	Single	50 Gram	1	0		
Compound feedingstuffs for cattle - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	12	1		
Compound feedingstuffs for cattle - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	10	0		
Compound feedingstuffs for cattle - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	4	0		
Compound feedingstuffs for cattle - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Compound feedingstuffs for fish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Compound feedingstuffs for pigs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	3	0		
Compound feedingstuffs for pigs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	500 Gram	1	0		
Compound feedingstuffs for pigs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	12	0		
Compound feedingstuffs for pigs - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Compound feedingstuffs for pigs - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	23	2		

Table Salmonella in compound feedingstuffs

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Compound feedingstuffs for pigs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Compound feedingstuffs for pigs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	1	0		
Compound feedingstuffs for poultry (non specified) - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	22	0		
Compound feedingstuffs for poultry (non specified) - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	103	0		
Compound feedingstuffs for poultry (non specified) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	feed sample	Domestic	Single	25 Gram	2	0		
Compound feedingstuffs for poultry (non specified) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	feed sample	Domestic	Single	25 Gram	2	0		
Compound feedingstuffs for poultry (non specified) - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	50	0		
Compound feedingstuffs for poultry (non specified) - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	15	0		
Compound feedingstuffs for poultry (non specified) - at feed mill - Unspecified	Sinzoo	Unspecified	HACCP and own checks	feed sample	Domestic	Single	25 Gram	8	0		
Compound feedingstuffs for poultry (non specified) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	8	0		
Compound feedingstuffs for poultry (non specified) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	2	0		
Compound feedingstuffs for poultry - breeders - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	500 Gram	1	0		

Table Salmonella in compound feedingstuffs

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Compound feedingstuffs for poultry - breeders - at retail - Surveillance	Sinzoo	Census	Official sampling	feed sample	Domestic	Single	50 Gram	1	0		
Compound feedingstuffs for rabbits - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	500 Gram	1	0		
Compound feedingstuffs for rabbits - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	3	0		
Compound feedingstuffs for rabbits - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Compound feedingstuffs, not specified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Compound feedingstuffs, not specified - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	23	1		
Compound feedingstuffs, not specified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	8	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Lexington	S. Livingstone	S. Mbandaka	S. Senftenberg					
Compound feedingstuffs for cattle - at farm - Surveillance											
Compound feedingstuffs for cattle - at farm - Surveillance						1					
Compound feedingstuffs for cattle - at farm - Surveillance											

Table Salmonella in compound feedingstuffs

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Lexington	S. Livingstone	S. Mbandaka	S. Senftenberg
Compound feedingstuffs for cattle - at feed mill - Surveillance						
Compound feedingstuffs for cattle - at feed mill - Surveillance						
Compound feedingstuffs for fish - at farm - Surveillance						
Compound feedingstuffs for pigs - at farm - Surveillance						
Compound feedingstuffs for pigs - at farm - Surveillance						
Compound feedingstuffs for pigs - at farm - Surveillance						
Compound feedingstuffs for pigs - at feed mill - Surveillance						
Compound feedingstuffs for pigs - at feed mill - Surveillance			1		1	
Compound feedingstuffs for pigs - at retail - Surveillance						
Compound feedingstuffs for pigs - at retail - Surveillance						
Compound feedingstuffs for poultry (non specified) - at farm - Surveillance						
Compound feedingstuffs for poultry (non specified) - at farm - Surveillance						

Table Salmonella in compound feedingstuffs

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Lexington	S. Livingstone	S. Mbandaka	S. Senftenberg
Compound feedingstuffs for poultry (non specified) - at farm - Survey - national survey						
Compound feedingstuffs for poultry (non specified) - at farm - Unspecified						
Compound feedingstuffs for poultry (non specified) - at feed mill - Surveillance						
Compound feedingstuffs for poultry (non specified) - at feed mill - Surveillance						
Compound feedingstuffs for poultry (non specified) - at feed mill - Unspecified						
Compound feedingstuffs for poultry (non specified) - at retail - Surveillance						
Compound feedingstuffs for poultry (non specified) - at retail - Surveillance						
Compound feedingstuffs for poultry - breeders - at farm - Surveillance						
Compound feedingstuffs for poultry - breeders - at retail - Surveillance						
Compound feedingstuffs for rabbits - at farm - Surveillance						
Compound feedingstuffs for rabbits - at farm - Surveillance						
Compound feedingstuffs for rabbits - at retail - Surveillance						

Table Salmonella in compound feedingstuffs

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Lexington	S. Livingstone	S. Mbandaka	S. Senftenberg
Compound feedingstuffs, not specified - at farm - Surveillance						
Compound feedingstuffs, not specified - at feed mill - Surveillance				1		
Compound feedingstuffs, not specified - at retail - Surveillance						

Table Salmonella in feed material of animal origin

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of land animal origin - meat meal - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of land animal origin - animal fat - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	6	2		
Feed material of marine animal origin - fish meal - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	1	0		
Feed material of land animal origin - animal fat - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of land animal origin - meat meal - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	3	0		
Feed material of land animal origin - meat meal - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of marine animal origin - fish meal - at farm - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of marine animal origin - fish meal - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of marine animal origin - fish meal - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Rissen								
Feed material of land animal origin - meat meal - at feed mill - Surveillance											

Table Salmonella in feed material of animal origin

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Rissen
Feed material of land animal origin - animal fat - at feed mill - Surveillance			2
Feed material of marine animal origin - fish meal - at feed mill - Surveillance			
Feed material of land animal origin - animal fat - at farm - Surveillance			
Feed material of land animal origin - meat meal - at feed mill - Surveillance			
Feed material of land animal origin - meat meal - at feed mill - Surveillance			
Feed material of marine animal origin - fish meal - at farm - Surveillance			
Feed material of marine animal origin - fish meal - at feed mill - Surveillance			
Feed material of marine animal origin - fish meal - at retail - Surveillance			

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	1	1		1
All feedingstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Complementary feedingstuffs - at farm - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	6	0		
Complementary feedingstuffs - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	69	1		
Complementary feedingstuffs - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	28	0		
Complementary feedingstuffs - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	53	20		
Complementary feedingstuffs - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	8	2		
Complementary feedingstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	19	0		
Feed material of cereal grain origin - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	8	0		
Feed material of cereal grain origin - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	13	0		

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of cereal grain origin - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	4	0		
Feed material of cereal grain origin - barley derived - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	1	0		
Feed material of cereal grain origin - barley derived - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of cereal grain origin - maize derived - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	8	0		
Feed material of cereal grain origin - maize derived - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of cereal grain origin - other cereal grain derived - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Feed material of cereal grain origin - wheat derived - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of oil seed or fruit origin - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	16	2		
Feed material of oil seed or fruit origin - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	10	1		
Feed material of oil seed or fruit origin - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of oil seed or fruit origin - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	16	0		

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of oil seed or fruit origin - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	9	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	2	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	500 Gram	1	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	11	1		
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	41	7		
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	500 Gram	1	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	4	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Other feed material - at farm - Surveillance	Sinzoo	Suspect sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Other feed material - at farm - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	50	1		
Other feed material - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	337	1		
Other feed material - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	50	0		
Other feed material - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	feed sample	Domestic	Single	25 Gram	11	0		

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Other feed material - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	170	2		
Other feed material - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1124	443		3
Other feed material - at feed mill - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Batch	25 Gram	60	5		
Other feed material - at feed mill - Survey - national survey	Sinzoo	Unspecified	Not applicable	feed sample	Domestic	Single	25 Gram	1	0		
Other feed material - at feed mill - Unspecified	Sinzoo	Unspecified	HACCP and own checks	feed sample	Domestic	Single	25 Gram	381	0		
Other feed material - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	66	0		
Other feed material - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	346	102		1
Other feed material - drinking water - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	21	0		
Other feed material - drinking water - at farm - Surveillance	Sinzoo	Suspect sampling	Official sampling	environmental sample	Domestic	Single	25 Gram	4	0		
Other feed material - drinking water - at farm - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Other feed material - drinking water - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	feed sample	Domestic	Single	25 Gram	2	0		
Other feed material - forages and roughages - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	1	0		
Other feed material - legume seeds and similar products - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	feed sample	Domestic	Single	25 Gram	2	0		
Premixtures - at feed mill - Surveillance	Sinzoo	Objective sampling	Official sampling	feed sample	Domestic	Single	25 Gram	9	0		

Table Salmonella in other feed matter

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Agona	S. Anatum	S. Bredeney	S. Carno	S. Cerro	S. Corvallis	S. Cubana	S. Derby	S. Havana
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance											
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance											
All feedingstuffs - at retail - Surveillance											
Complementary feedingstuffs - at farm - Surveillance											
Complementary feedingstuffs - at farm - Surveillance											
Complementary feedingstuffs - at feed mill - Surveillance											
Complementary feedingstuffs - at feed mill - Surveillance		18									
Complementary feedingstuffs - at retail - Surveillance			2								
Complementary feedingstuffs - at retail - Surveillance											
Feed material of cereal grain origin - at farm - Surveillance											
Feed material of cereal grain origin - at feed mill - Surveillance											
Feed material of cereal grain origin - at retail - Surveillance											

Table Salmonella in other feed matter

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Agona	S. Anatum	S. Bredeney	S. Carno	S. Cerro	S. Corvallis	S. Cubana	S. Derby	S. Havana
Feed material of cereal grain origin - barley derived - at farm - Surveillance											
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance											
Feed material of cereal grain origin - barley derived - at retail - Surveillance											
Feed material of cereal grain origin - maize derived - at farm - Surveillance											
Feed material of cereal grain origin - maize derived - at retail - Surveillance											
Feed material of cereal grain origin - other cereal grain derived - at farm - Surveillance											
Feed material of cereal grain origin - wheat derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - at farm - Surveillance											1
Feed material of oil seed or fruit origin - at feed mill - Surveillance		1									
Feed material of oil seed or fruit origin - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - at retail - Surveillance											

Table Salmonella in other feed matter

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Agona	S. Anatum	S. Bredeney	S. Carno	S. Cerro	S. Corvallis	S. Cubana	S. Derby	S. Havana
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance			1								
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance		6									
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Surveillance		1									
Other feed material - at farm - Surveillance											
Other feed material - at farm - Survey - national survey											
Other feed material - at feed mill - Surveillance											

Table Salmonella in other feed matter

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Agona	S. Anatum	S. Bredeney	S. Carno	S. Cerro	S. Corvallis	S. Cubana	S. Derby	S. Havana
Other feed material - at feed mill - Surveillance		391		2	2	1	2	2		2	
Other feed material - at feed mill - Surveillance											1
Other feed material - at feed mill - Survey - national survey											
Other feed material - at feed mill - Unspecified											
Other feed material - at retail - Surveillance											
Other feed material - at retail - Surveillance		94				1			4		
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Survey - national survey											
Other feed material - forages and roughages - at farm - Surveillance											
Other feed material - legume seeds and similar products - at farm - Surveillance											
Premixtures - at feed mill - Surveillance											

Table Salmonella in other feed matter

	S. Kasenyi	S. Lexington	S. Livingstone	S. Llandoff	S. London	S. Mbandaka	S. Mishmarhae mek	S. Montevideo	S. Pomona	S. Putten	S. Rissen
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance											
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance											
All feedingstuffs - at retail - Surveillance											
Complementary feedingstuffs - at farm - Surveillance											
Complementary feedingstuffs - at farm - Surveillance			1								
Complementary feedingstuffs - at feed mill - Surveillance											
Complementary feedingstuffs - at feed mill - Surveillance			2								
Complementary feedingstuffs - at retail - Surveillance											
Complementary feedingstuffs - at retail - Surveillance											
Feed material of cereal grain origin - at farm - Surveillance											
Feed material of cereal grain origin - at feed mill - Surveillance											
Feed material of cereal grain origin - at retail - Surveillance											

Table Salmonella in other feed matter

	S. Kasenyi	S. Lexington	S. Livingstone	S. Llandoff	S. London	S. Mbandaka	S. Mishmarhae mek	S. Montevideo	S. Pomona	S. Putten	S. Rissen
Feed material of cereal grain origin - barley derived - at farm - Surveillance											
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance											
Feed material of cereal grain origin - barley derived - at retail - Surveillance											
Feed material of cereal grain origin - maize derived - at farm - Surveillance											
Feed material of cereal grain origin - maize derived - at retail - Surveillance											
Feed material of cereal grain origin - other cereal grain derived - at farm - Surveillance											
Feed material of cereal grain origin - wheat derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - at farm - Surveillance				1		1					
Feed material of oil seed or fruit origin - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - at retail - Surveillance											

Table Salmonella in other feed matter

	S. Kasenyi	S. Lexington	S. Livingstone	S. Llandoff	S. London	S. Mbandaka	S. Mishmarhae mek	S. Montevideo	S. Pomona	S. Putten	S. Rissen
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance						1					
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Surveillance											
Other feed material - at farm - Survey - national survey											
Other feed material - at feed mill - Surveillance						1				1	

Table Salmonella in other feed matter

	S. Kasenyi	S. Lexington	S. Livingstone	S. Llandoff	S. London	S. Mbandaka	S. Mishmarhae mek	S. Montevideo	S. Pomona	S. Putten	S. Rissen
Other feed material - at feed mill - Surveillance	2	2	6		2	4	10	1	2		2
Other feed material - at feed mill - Surveillance						2					
Other feed material - at feed mill - Survey - national survey											
Other feed material - at feed mill - Unspecified											
Other feed material - at retail - Surveillance											
Other feed material - at retail - Surveillance						2		1			
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Surveillance											
Other feed material - drinking water - at farm - Survey - national survey											
Other feed material - forages and roughages - at farm - Surveillance											
Other feed material - legume seeds and similar products - at farm - Surveillance											
Premixtures - at feed mill - Surveillance											

Table Salmonella in other feed matter

	S. Sandiego	S. Senftenberg	S. Soerenga	S. Tennessee
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance				
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance				
All feedingstuffs - at retail - Surveillance				
Complementary feedingstuffs - at farm - Surveillance				
Complementary feedingstuffs - at farm - Surveillance				
Complementary feedingstuffs - at feed mill - Surveillance				
Complementary feedingstuffs - at feed mill - Surveillance				
Complementary feedingstuffs - at retail - Surveillance				
Complementary feedingstuffs - at retail - Surveillance				
Feed material of cereal grain origin - at farm - Surveillance				
Feed material of cereal grain origin - at feed mill - Surveillance				
Feed material of cereal grain origin - at retail - Surveillance				

Table Salmonella in other feed matter

	S. Sandiego	S. Senftenberg	S. Soerenga	S. Tennessee
Feed material of cereal grain origin - barley derived - at farm - Surveillance				
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance				
Feed material of cereal grain origin - barley derived - at retail - Surveillance				
Feed material of cereal grain origin - maize derived - at farm - Surveillance				
Feed material of cereal grain origin - maize derived - at retail - Surveillance				
Feed material of cereal grain origin - other cereal grain derived - at farm - Surveillance				
Feed material of cereal grain origin - wheat derived - at retail - Surveillance				
Feed material of oil seed or fruit origin - at farm - Surveillance				
Feed material of oil seed or fruit origin - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - at retail - Surveillance				

Table Salmonella in other feed matter

	S. Sandiego	S. Senftenberg	S. Soerenga	S. Tennessee
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at farm - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance				
Feed material of oil seed or fruit origin - soya (bean) derived - at retail - Surveillance				
Other feed material - at farm - Surveillance				
Other feed material - at farm - Surveillance				1
Other feed material - at farm - Surveillance				
Other feed material - at farm - Surveillance				
Other feed material - at farm - Survey - national survey				
Other feed material - at feed mill - Surveillance				

Table Salmonella in other feed matter

	S. Sandiego	S. Senftenberg	S. Soerenga	S. Tennessee
Other feed material - at feed mill - Surveillance	2	2	4	
Other feed material - at feed mill - Surveillance		2		
Other feed material - at feed mill - Survey - national survey				
Other feed material - at feed mill - Unspecified				
Other feed material - at retail - Surveillance				
Other feed material - at retail - Surveillance				
Other feed material - drinking water - at farm - Surveillance				
Other feed material - drinking water - at farm - Surveillance				
Other feed material - drinking water - at farm - Surveillance				
Other feed material - drinking water - at farm - Survey - national survey				
Other feed material - forages and roughages - at farm - Surveillance				
Other feed material - legume seeds and similar products - at farm - Surveillance				
Premixtures - at feed mill - Surveillance				

2.1.5 Salmonella serovars and phagetype distribution

The methods of collecting, isolating and testing of the Salmonella isolates are described in the chapters above respectively for each animal species, foodstuffs and humans. The serotype and phagetype distributions can be used to investigate the sources of the Salmonella infections in humans. Findings of same serovars and phagetypes in human cases and in foodstuffs or animals may indicate that the food category or animal species in question serves as a source of human infections. However as information is not available from all potential sources of infections, conclusions have to be drawn with caution.

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
Other serovars											1		
S. Abony							1						
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona							2				30		

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Alachua			1								2		
S. Albany											3		
S. Anatum			2				3				6		
S. Arapahoe													
S. Bardo													
S. Blijdorp													
S. Blockley											4		
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso			1										

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Bovismorbificans			1				1						
S. Braenderup							1				42		
S. Brancaster													
S. Brandenburg							2				1		
S. Bredeney							6				35		
S. Cerro			1								10		
S. Chester													
S. Choleraesuis							37						
S. Choleraesuis var. Kunzendorf							5						
S. Coeln											9		
S. Corvallis											5		

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Demerara													
S. Denver											1		
S. Derby			1				80				4		
S. Djugu													
S. Dublin			12										
S. Duesseldorf													
S. Duisburg													
S. Enteritidis			2				1				47		
S. Fischerhuetten											1		
S. Gallinarum											12		
S. Give							3				3		

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Goettingen							3						
S. Goldcoast							10						
S. Grumpensis							1						
S. Hadar			20								12		
S. Haifa											4		
S. Halle											1		
S. Handen											1		
S. Hannover											1		
S. Havana											3		
S. Heidelberg											2		
S. Hermannswerder													

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Hessarek													
S. Hindmarsh													
S. Idikan											1		
S. Indiana													
S. Infantis							3				50		
S. Isangi											9		
S. Kalamu											1		
S. Kambole											2		
S. Kapemba							4						
S. Kedougou							4				5		
S. Kentucky			1								68		

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Kottbus											3		
S. Langford													
S. Lexington											2		
S. Liverpool											1		
S. Livingstone							8				133		
S. Llandoff											1		
S. Lomita											1		
S. London			3				21				2		
S. Manhattan			1				3				1		
S. Mbandaka											55		
S. Miami													

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Mishmarhaemek							6				8		
S. Montevideo											13		
S. Muenchen			2								21		
S. Muenster			1								3		
S. Napoli			1										
S. Newlands											2		
S. Newport			1								2		
S. Ohio							1						
S. Oranienburg													
S. Orion											2		
S. Panama			1				1						

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Parkroyal											1		
S. Pomona													
S. Poona											2		
S. Rhone											2		
S. Riggil							1						
S. Rissen							27				3		
S. Saintpaul											4		
S. Schwarzengrund													
S. Senftenberg							3				8		
S. Stanley													
S. Stanleyville							1						

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Szentes											1		
S. Teddington													
S. Tennessee			1										
S. Thompson											81		
S. Tomegbe											2		
S. Toulon													
S. Typhimurium			66				31				13		
S. Typhimurium, monophasic			14				177				18		
S. Umbilo													
S. Urbana													
S. Veneziana			3				3				10		

Table Salmonella serovars in animals

Serovar	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			139				465				806		
Number of isolates serotyped			139				465				806		
Number of isolates per serovar													
S. Virchow											5		
S. Waycross													
S. Weltevreden											1		
S. Worthington											1		
S. Zaiman											1		
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae							2						
S. enterica subsp. enterica			3				13				19		
S. enterica subsp. houtenae											2		
S. enterica subsp. salamae											6		

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates						15				2			
Number of isolates in the laboratory						15				2			
Number of isolates serotyped													
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona													
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup													
S. Brancaster													
S. Brandenburg													
S. Bredeney										1			

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis													
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar													
S. Haifa													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus													
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen													
S. Muenster													
S. Napoli													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Newlands													
S. Newport													
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Rissen													
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson													
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Toulon													
S. Typhimurium						4							
S. Typhimurium, monophasic													
S. Umbilo													
S. Urbana													
S. Veneziana													
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Other poultry			Canary				Cantabrian chamois				Cats - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						15				2			
Number of isolates serotyped						15				2			
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae													
S. enterica subsp. enterica						11				1			
S. enterica subsp. houtenae													
S. enterica subsp. salamae													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi													
S. Abortusovis													
S. Agama									1				
S. Agona													
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													
S. Bongori													1
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup													2
S. Brancaster													
S. Brandenburg													
S. Bredeney									1				

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis					1								
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis	1												1
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar	1												
S. Haifa													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus													
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen													
S. Muenster													
S. Napoli	2												

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Newlands													
S. Newport	1												
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Rissen													1
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson													1
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Toulon													
S. Typhimurium	4												7
S. Typhimurium, monophasic	1												5
S. Umbilo													1
S. Urbana													
S. Veneziana	2												1
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Cats - pet animals		Deer - wild - red deer				Deer - wild - roe deer				Dogs - pet animals		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	13				1				2				23
Number of isolates serotyped	13				1				2				23
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae													1
S. enterica subsp. enterica													1
S. enterica subsp. houtenae	1												
S. enterica subsp. salamae													1

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona													
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup												1	
S. Brancaster													
S. Brandenburg													
S. Bredeney													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis													
S. Fischerhuetten													
S. Gallinarum													
S. Give												1	
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar													
S. Haifa													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													
S. Hessarek												2	
S. Hindmarsh													
S. Idikan													
S. Indiana				1									
S. Infantis													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus													
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen													
S. Muenster													
S. Napoli				2								1	

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Newlands													
S. Newport													
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Rissen													
S. Saintpaul				1									
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson													
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Toulon													
S. Typhimurium								1				3	
S. Typhimurium, monophasic												1	
S. Umbilo													
S. Urbana													
S. Veneziana												1	
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman												1	

Table Salmonella serovars in animals

Serovar	Dogs - pet animals	Ducks				Falcons				Foxes - wild			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				4				1				16	
Number of isolates serotyped				4				1				16	
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae													
S. enterica subsp. enterica												1	
S. enterica subsp. houtenae												4	
S. enterica subsp. salamae													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona							10						
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup													
S. Brancaster													
S. Brandenburg													
S. Bredeney													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis											3		
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar													
S. Haifa													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus													
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone			1										

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen													
S. Muenster													
S. Napoli													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Newlands													
S. Newport													
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Rissen													
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson													
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Toulon													
S. Typhimurium							1				1		
S. Typhimurium, monophasic			2										
S. Umbilo													
S. Urbana													
S. Veneziana													
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Geese - breeding flocks, unspecified				Guinea fowl				Hedgehogs - wild				Night herons
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				11				4		
Number of isolates serotyped			3				11				4		
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae													
S. enterica subsp. enterica													
S. enterica subsp. houtenae													
S. enterica subsp. salamae													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
Other serovars													
S. Abony						1							
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona													
S. Alachua						4							
S. Albany													
S. Anatum						1							
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Blijdorp						1							
S. Blockley													
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup						2							
S. Brancaster										1			
S. Brandenburg													
S. Bredeney		2											

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Cerro						1							
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby						2							
S. Djugu						1							
S. Dublin													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Duesseldorf						1							
S. Duisburg													
S. Enteritidis						1							
S. Fischerhuetten						6							
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar						1							
S. Haifa						1							

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder						1							
S. Hessarek						2							
S. Hindmarsh						1							
S. Idikan													
S. Indiana													
S. Infantis						4							

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou						3							
S. Kentucky						1							
S. Kottbus						3							
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone						1							

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London						1							
S. Manhattan													
S. Mbandaka						2							
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen						1							
S. Muenster													
S. Napoli						4							

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Newlands													
S. Newport						2							
S. Ohio													
S. Oranienburg													
S. Orion						2							
S. Panama						1							
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Rissen						3							
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington						1							
S. Tennessee													
S. Thompson						2							
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Toulon													
S. Typhimurium		1				14				1			
S. Typhimurium, monophasic		1				5							
S. Umbilo						1							
S. Urbana						1							
S. Veneziana						1							
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Night herons			Other animals				Pheasants				Pigeons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		4				89				2			
Number of isolates serotyped		4				89				2			
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													
S. enterica subsp. diarizonae						2							
S. enterica subsp. enterica													
S. enterica subsp. houtenae						5							
S. enterica subsp. salamae						2							

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
Other serovars													
S. Abony													4
S. Abortusequi													
S. Abortusovis													
S. Agama													
S. Agona													
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe													
S. Bardo													1

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													1
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup													
S. Brancaster													
S. Brandenburg													
S. Bredeney									1				

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis													1
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar													
S. Haifa													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													1
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus													
S. Langford													1
S. Lexington													
S. Liverpool													
S. Livingstone					1								

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													1
S. Mishmarhaemek													
S. Montevideo													2
S. Muenchen													
S. Muenster													
S. Napoli													

Italy - 2012 Report on trends and sources of zoonoses

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Newlands													
S. Newport	1												
S. Ohio													
S. Oranienburg													3
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Rissen													
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													1
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson													
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Toulon													
S. Typhimurium	13				1				7				
S. Typhimurium, monophasic													
S. Umbilo													
S. Urbana													
S. Veneziana													
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Pigeons		Quails				Rabbits				Reptiles		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	15				2				8				46
Number of isolates serotyped	15				2				8				46
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae													5
S. enterica subsp. diarizonae	1												16
S. enterica subsp. enterica													
S. enterica subsp. houtenae													9
S. enterica subsp. salamae													

Italy - 2012 Report on trends and sources of zoonoses

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi												1	
S. Abortusovis				22									
S. Agama													
S. Agona				1									
S. Alachua													
S. Albany													
S. Anatum													
S. Arapahoe								1					
S. Bardo													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Blijdorp													
S. Blockley													
S. Blukwa													
S. Bongori													
S. Bonn													
S. Bousso													
S. Bovismorbificans													
S. Braenderup													
S. Brancaster													
S. Brandenburg													
S. Bredeney													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Cerro													
S. Chester													
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara													
S. Denver													
S. Derby													
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg				1									
S. Enteritidis													
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar													
S. Haifa													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder													
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky				1									
S. Kottbus													
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan				1									
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen													
S. Muenster													
S. Napoli												1	

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Newlands													
S. Newport													
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona													
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Rissen													
S. Saintpaul													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson				1									
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Toulon				1									
S. Typhimurium				3									
S. Typhimurium, monophasic													
S. Umbilo													
S. Urbana													
S. Veneziana				1									
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Reptiles	Sheep and goats				Shellfish				Solipeds, domestic - donkeys			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				45				4				2	
Number of isolates serotyped				45				4				2	
Number of isolates per serovar													
S. Zanzibar								1					
S. enterica subsp. arizonae				1									
S. enterica subsp. diarizonae				11									
S. enterica subsp. enterica													
S. enterica subsp. houtenae				1									
S. enterica subsp. salamae								2					

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
Other serovars													
S. Abony													
S. Abortusequi			2										
S. Abortusovis													
S. Agama													
S. Agona													
S. Alachua													
S. Albany													
S. Anatum							1						
S. Arapahoe													
S. Bardo													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Blijdorp													
S. Blockley							26						
S. Blukwa													
S. Bongori													
S. Bonn											1		
S. Bousso													
S. Bovismorbificans													
S. Braenderup													
S. Brancaster													
S. Brandenburg													
S. Bredeney							5						

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Cerro											1		
S. Chester							3						
S. Choleraesuis													
S. Choleraesuis var. Kunzendorf													
S. Coeln													
S. Corvallis													
S. Demerara							1						
S. Denver													
S. Derby							7						
S. Djugu													
S. Dublin													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Duesseldorf													
S. Duisburg													
S. Enteritidis													
S. Fischerhuetten													
S. Gallinarum													
S. Give													
S. Goettingen													
S. Goldcoast													
S. Grumpensis													
S. Hadar							1						
S. Haifa							7						

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Halle													
S. Handen													
S. Hannover													
S. Havana													
S. Heidelberg													
S. Hermannswerder											1		
S. Hessarek													
S. Hindmarsh													
S. Idikan													
S. Indiana													
S. Infantis							2						

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Isangi													
S. Kalamu													
S. Kambole													
S. Kapemba													
S. Kedougou													
S. Kentucky													
S. Kottbus							1						
S. Langford													
S. Lexington													
S. Liverpool													
S. Livingstone													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Llandoff													
S. Lomita													
S. London													
S. Manhattan													
S. Mbandaka													
S. Miami													
S. Mishmarhaemek													
S. Montevideo													
S. Muenchen							1				1		
S. Muenster													
S. Napoli													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Newlands													
S. Newport							19						
S. Ohio													
S. Oranienburg													
S. Orion													
S. Panama													
S. Parkroyal													
S. Pomona											1		
S. Poona													
S. Rhone													
S. Riggil													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Rissen													
S. Saintpaul							11						
S. Schwarzengrund							15						
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Szentes													
S. Teddington													
S. Tennessee													
S. Thompson							2						
S. Tomegbe													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Toulon													
S. Typhimurium			1				2						
S. Typhimurium, monophasic							9						
S. Umbilo							1						
S. Urbana													
S. Veneziana							4						
S. Virchow													
S. Waycross													
S. Weltevreden													
S. Worthington													
S. Zaiman													

Table Salmonella serovars in animals

Serovar	Solipeds, domestic - horses				Turkeys				Turtles				Water buffalos
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			3				118				9		
Number of isolates serotyped			3				118				9		
Number of isolates per serovar													
S. Zanzibar													
S. enterica subsp. arizonae											1		
S. enterica subsp. diarizonae											1		
S. enterica subsp. enterica											1		
S. enterica subsp. houtenae													
S. enterica subsp. salamae											1		

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
Other serovars							
S. Abony							
S. Abortusequi							
S. Abortusovis							
S. Agama							
S. Agona							
S. Alachua							
S. Albany							
S. Anatum						1	
S. Arapahoe							
S. Bardo							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Blijdorp							
S. Blockley							
S. Blukwa							
S. Bongori							
S. Bonn							
S. Bousso							
S. Bovismorbificans							
S. Braenderup							
S. Brancaster							
S. Brandenburg						1	
S. Bredeney							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Cerro							
S. Chester						1	
S. Choleraesuis						7	
S. Choleraesuis var. Kunzendorf						4	
S. Coeln						43	
S. Corvallis							
S. Demerara							
S. Denver							
S. Derby						1	
S. Djugu							
S. Dublin							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Duesseldorf						1	
S. Duisburg							
S. Enteritidis						2	
S. Fischerhuetten							
S. Gallinarum							
S. Give		3					
S. Goettingen							
S. Goldcoast							
S. Grumpensis							
S. Hadar							
S. Haifa							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Halle							
S. Handen							
S. Hannover							
S. Havana							
S. Heidelberg							
S. Hermannswerder							
S. Hessarek							
S. Hindmarsh							
S. Idikan							
S. Indiana							
S. Infantis							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Isangi							
S. Kalamu							
S. Kambole							
S. Kapemba						3	
S. Kedougou							
S. Kentucky							
S. Kottbus						2	
S. Langford							
S. Lexington							
S. Liverpool							
S. Livingstone							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Llandoff							
S. Lomita							
S. London		2				2	
S. Manhattan							
S. Mbandaka							
S. Miami							
S. Mishmarhaemek							
S. Montevideo							
S. Muenchen		1					
S. Muenster		2				1	
S. Napoli						3	

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Newlands							
S. Newport		1				5	
S. Ohio							
S. Oranienburg						1	
S. Orion							
S. Panama							
S. Parkroyal							
S. Pomona							
S. Poona							
S. Rhone							
S. Riggil							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Rissen		3					
S. Saintpaul							
S. Schwarzengrund							
S. Senftenberg							
S. Stanley						4	
S. Stanleyville		3					
S. Szentes		1					
S. Teddington							
S. Tennessee							
S. Thompson						3	
S. Tomegbe							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Toulon							
S. Typhimurium		4				21	
S. Typhimurium, monophasic						4	
S. Umbilo							
S. Urbana							
S. Veneziana						26	
S. Virchow							
S. Waycross		1					
S. Weltevreden							
S. Worthington							
S. Zaiman							

Table Salmonella serovars in animals

Serovar	Water buffalos			Wild boars			
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates							
Number of isolates in the laboratory		21				210	
Number of isolates serotyped		21				210	
Number of isolates per serovar							
S. Zanzibar							
S. enterica subsp. arizonae						1	
S. enterica subsp. diarizonae						6	
S. enterica subsp. enterica						44	
S. enterica subsp. houtenae						18	
S. enterica subsp. salamae						5	

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												26	
Number of isolates serotyped												26	
Number of isolates per serovar													
S. Abony													
S. Agbeni													
S. Agona													
S. Anatum													
S. Apeyeme													
S. Blockley													
S. Bovismorbificans													
S. Braenderup													
S. Brandenburg													
S. Bredeney													

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
	Sources of isolates												
	Number of isolates in the laboratory												
Number of isolates serotyped													
Number of isolates per serovar													
S. Chester													
S. Choleraesuis												1	
S. Coeln													
S. Derby												4	
S. Dublin													
S. Edinburg													
S. Enteritidis													
S. Fischerhuetten													
S. Give												1	
S. Goldcoast													
S. Hadar													

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												26	
Number of isolates serotyped												26	
Number of isolates per serovar													
S. Haifa													
S. Havana													
S. Heidelberg													
S. Infantis													
S. Inganda													
S. Isangi													
S. Kapemba													
S. Kentucky													
S. Kottbus													
S. Litchfield													
S. Livingstone												2	

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												26	
Number of isolates serotyped												26	
Number of isolates per serovar													
S. London													
S. Manhattan													
S. Mbandaka													
S. Meleagridis													
S. Muenchen												1	
S. Napoli												1	
S. Ndolo													
S. Newport													
S. Panama													
S. Paratyphi B													
S. Rissen													

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												26	
Number of isolates serotyped												26	
Number of isolates per serovar													
S. Saintpaul													
S. Schleissheim													
S. Schwarzengrund													
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Tennessee													
S. Texas													
S. Thompson													
S. Typhimurium												1	
S. Typhimurium, monophasic												10	

Table Salmonella serovars in food

Serovar	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												26	
Number of isolates serotyped												26	
Number of isolates per serovar													
S. Veneziana												1	
S. Virchow													
S. Weltevreden													
S. Wentworth													
S. Westhampton													
S. enterica subsp. diarizonae													
S. enterica subsp. enterica												3	
S. enterica subsp. houtenae												1	
S. enterica subsp. salamae													

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Abony													
S. Agbeni									1				
S. Agona									2				
S. Anatum							5		1				
S. Apeyeme													
S. Blockley											2		
S. Bovismorbificans							2		3		1		
S. Braenderup											1		
S. Brandenburg									6				
S. Bredeney							1		3		2		
S. Chester													

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Choleraesuis							1		1				
S. Coeln													
S. Derby	1						15		99				
S. Dublin							1						
S. Edinburg									1				
S. Enteritidis	1				1						8		
S. Fischerhuetten													
S. Give							7		3		2		
S. Goldcoast							1		2				
S. Hadar							2				4		
S. Haifa											1		

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Havana													
S. Heidelberg													
S. Infantis							19		4		26		
S. Inganda											1		
S. Isangi											1		
S. Kapemba							1		2				
S. Kentucky					1								
S. Kottbus									1				
S. Litchfield													
S. Livingstone					1		1		5		4		
S. London							1		8				

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Manhattan							2		1				
S. Mbandaka									1		2		
S. Meleagridis									1				
S. Muenchen							13		3				
S. Napoli			1										
S. Ndolo													
S. Newport									1		3		
S. Panama									14				
S. Paratyphi B											1		
S. Rissen							5		36				
S. Saintpaul											1		1

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Schleissheim													
S. Schwarzengrund							1						
S. Senftenberg													
S. Stanley													
S. Stanleyville													
S. Tennessee											1		
S. Texas													
S. Thompson							1		2		6		
S. Typhimurium	1				1		6		48		2		1
S. Typhimurium, monophasic							29		130		3		
S. Veneziana													

Table Salmonella serovars in food

Serovar	Bakery products - cakes	Egg products		Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	3		1		5		120		386		73		2
Number of isolates serotyped	3		1		5		120		386		73		2
Number of isolates per serovar													
S. Virchow													
S. Weltevreden													
S. Wentworth					1								
S. Westhampton													
S. enterica subsp. diarizonae													
S. enterica subsp. enterica							6		7		1		
S. enterica subsp. houtenae													
S. enterica subsp. salamae													

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Abony								1		
S. Agbeni										
S. Agona		2								
S. Anatum		2								
S. Apeyeme								1		
S. Blockley		5								
S. Bovismorbificans								3		
S. Braenderup										
S. Brandenburg								1		
S. Bredeney		12				1		2		
S. Chester		1								

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Choleraesuis										
S. Coeln		2								
S. Derby		2						1		
S. Dublin										
S. Edinburg										
S. Enteritidis								1		
S. Fischerhuetten								1		
S. Give										
S. Goldcoast										
S. Hadar		4				1				
S. Haifa		1								

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Havana								1		
S. Heidelberg		1								
S. Infantis		1								
S. Inganda										
S. Isangi								1		
S. Kapemba										
S. Kentucky		4				1				
S. Kottbus		2						1		
S. Litchfield								2		
S. Livingstone								1		
S. London										

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Manhattan								2		
S. Mbandaka								1		
S. Meleagridis										
S. Muenchen										
S. Napoli								2		
S. Ndolo								1		
S. Newport		7						1		
S. Panama										
S. Paratyphi B		2						2		
S. Rissen								1		2
S. Saintpaul		12								

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Schleissheim								1		
S. Schwarzengrund		1								
S. Senftenberg		1						1		
S. Stanley		14								
S. Stanleyville								2		
S. Tennessee										
S. Texas								1		
S. Thompson		1								
S. Typhimurium		5		1				13		
S. Typhimurium, monophasic		14				3		10		
S. Veneziana								2		1

Table Salmonella serovars in food

Serovar	Meat from turkey - meat products		Meat from wild boar - meat products		Milk, cows'		Molluscan shellfish		Vegetables	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates										
Number of isolates in the laboratory		98		3		6		65		3
Number of isolates serotyped		98		3		6		65		3
Number of isolates per serovar										
S. Virchow								1		
S. Weltevreden								1		
S. Wentworth										
S. Westhampton								1		
S. enterica subsp. diarizonae								1		
S. enterica subsp. enterica		2		1				2		
S. enterica subsp. houtenae				1						
S. enterica subsp. salamae								2		

Table Salmonella Enteritidis phage types in animals

Phage type	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			2				1				47		
Number of isolates phagetyped	0	0	2	0	0	0	1	0	0	0	33	0	0
Number of isolates per phage type													
Not typeable			1				1				10		
PT 1											2		
PT 21											3		
PT 35											1		
PT 4											10		
PT 52			1										
PT 6											1		
PT 7											1		
PT 8											4		
RDNC											1		

Table Salmonella Enteritidis phagetypes in animals

Phagetype	Other poultry			Cats - pet animals				Dogs - pet animals				Hedgehogs - wild	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						1				1			
Number of isolates phagetyped	0	0	0			1				1			
Number of isolates per phagetype													
Not typeable													
PT 1													
PT 21						1							
PT 35													
PT 4										1			
PT 52													
PT 6													
PT 7													
PT 8													
RDNC													

Table Salmonella Enteritidis phagetypes in animals

Phagetype	Hedgehogs - wild		Other animals				Wild boars			
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates										
Number of isolates in the laboratory	3				1				2	
Number of isolates phagetyped	3				1				2	
Number of isolates per phagetype										
Not typeable									1	
PT 1										
PT 21										
PT 35										
PT 4					1					
PT 52										
PT 6										
PT 7										
PT 8									1	
RDNC	3									

Table Salmonella Enteritidis phagetypes in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		Meat from poultry, unspecified - meat products		Molluscan shellfish
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												8	
Number of isolates phagetyped	0	0	0	0	0	0	0	0	0	0		8	
Number of isolates per phagetype													
PT 21												5	
PT 4												2	
PT 8												1	

Phagetype	Molluscan shellfish
	Surveillance
Sources of isolates	
Number of isolates in the laboratory	1
Number of isolates phagetyped	1
Number of isolates per phagetype	
PT 21	1
PT 4	
PT 8	

Table Salmonella Enteritidis phagetypes in food

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			66				31				13		
Number of isolates phagetyped	0	0	63	0	0	0	25	0	0	0	6	0	0
Number of isolates per phagetype													
DT 1													
DT 104			36				4				1		
DT 109													
DT 110							1						
DT 12			16										
DT 120			2				3						
DT 193													
DT 2													
DT 208			2										
DT 20a							2						
DT 36													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Cattle (bovine animals)				Pigs				Gallus gallus (fowl)				Other poultry
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			66				31				13		
Number of isolates phagetyped	0	0	63	0	0	0	25	0	0	0	6	0	0
Number of isolates per phagetype													
DT 4													
DT 46a													
DT 8													
DT 99							1						
Not typeable			2				8				1		
RDNC			5								1		
U 302							1				2		
U 311							5				1		

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Other poultry			Canary				Cats - pet animals				Dogs - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						4				4			
Number of isolates phagetyped	0	0	0			3				4			
Number of isolates per phagetype													
DT 1													
DT 104													
DT 109						2							
DT 110													
DT 12													
DT 120													
DT 193										1			
DT 2													
DT 208													
DT 20a													
DT 36													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Other poultry			Canary				Cats - pet animals				Dogs - pet animals	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory						4				4			
Number of isolates phagetyped	0	0	0			3				4			
Number of isolates per phagetype													
DT 4										1			
DT 46a													
DT 8													
DT 99										1			
Not typeable													
RDNC													
U 302										1			
U 311						1							

Table Salmonella Typhimurium phage types in animals

Phagetype	Dogs - pet animals		Falcons				Foxes - wild				Guinea fowl		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	7				1				3				1
Number of isolates phagetyped	5				1				2				1
Number of isolates per phagetype													
DT 1	1												
DT 104	1												
DT 109													
DT 110													
DT 12	1												
DT 120													
DT 193													
DT 2													
DT 208													
DT 20a													
DT 36									1				

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Dogs - pet animals		Falcons				Foxes - wild				Guinea fowl		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	7				1				3				1
Number of isolates phagetyped	5				1				2				1
Number of isolates per phagetype													
DT 4													
DT 46a													
DT 8													1
DT 99													
Not typeable									1				
RDNC	1				1								
U 302													
U 311	1												

Table Salmonella Typhimurium phage types in animals

Phagetype	Guinea fowl	Hedgehogs - wild				Other animals				Pheasants			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				1				14				1	
Number of isolates phagetyped				1				9				1	
Number of isolates per phagetype													
DT 1													
DT 104													
DT 109								2					
DT 110													
DT 12								1					
DT 120													
DT 193													
DT 2								1					
DT 208								1					
DT 20a													
DT 36													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Guinea fowl	Hedgehogs - wild				Other animals				Pheasants			
	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates													
Number of isolates in the laboratory				1				14				1	
Number of isolates phagetyped				1				9				1	
Number of isolates per phagetype													
DT 4													
DT 46a													
DT 8													
DT 99								2					
Not typeable								2				1	
RDNC													
U 302				1									
U 311													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Pigeons				Quails				Rabbits				Sheep and goats
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			13				1				7		
Number of isolates phagetyped			12				1				7		
Number of isolates per phagetype													
DT 1													
DT 104											2		
DT 109													
DT 110													
DT 12													
DT 120													
DT 193													
DT 2													
DT 208													
DT 20a													
DT 36													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Pigeons				Quails				Rabbits				Sheep and goats
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			13				1				7		
Number of isolates phagetyped			12				1				7		
Number of isolates per phagetype													
DT 4													
DT 46a													
DT 8													
DT 99			7								4		
Not typeable			1								1		
RDNC			3										
U 302			1				1						
U 311													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Sheep and goats			Solipeds, domestic - horses				Turkeys				Water buffalos	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		3				1				2			
Number of isolates phagetyped		3				1				2			
Number of isolates per phagetype													
DT 1													
DT 104													
DT 109													
DT 110													
DT 12													
DT 120													
DT 193													
DT 2													
DT 208													
DT 20a													
DT 36													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Sheep and goats			Solipeds, domestic - horses				Turkeys				Water buffalos	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		3				1				2			
Number of isolates phagetyped		3				1				2			
Number of isolates per phagetype													
DT 4													
DT 46a						1							
DT 8													
DT 99													
Not typeable										1			
RDNC		3								1			
U 302													
U 311													

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Water buffalos		Wild boars			
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates						
Number of isolates in the laboratory	4				21	
Number of isolates phagetyped	4				17	
Number of isolates per phagetype						
DT 1					1	
DT 104	2					
DT 109						
DT 110						
DT 12						
DT 120						
DT 193	2					
DT 2						
DT 208						
DT 20a						
DT 36						

Table Salmonella Typhimurium phagetypes in animals

Phagetype	Water buffalos		Wild boars			
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Sources of isolates						
Number of isolates in the laboratory	4				21	
Number of isolates phagetyped	4				17	
Number of isolates per phagetype						
DT 4						
DT 46a						
DT 8						
DT 99						
Not typeable					8	
RDNC					8	
U 302						
U 311						

Table Salmonella Typhimurium phagetypes in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												1	
Number of isolates phagetyped	0	0	0	0	0	0	0	0	0	0		1	
Number of isolates per phagetype													
DT 1													
DT 104												1	
DT 110													
DT 120													
DT 126a													
DT 193													
DT 193a													
DT 2													
DT 20a													
DT 30													

Table Salmonella Typhimurium phage types in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		All foodstuffs		Bakery products - cakes
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Sources of isolates													
Number of isolates in the laboratory												1	
Number of isolates phagetyped	0	0	0	0	0	0	0	0	0	0		1	
Number of isolates per phagetype													
DT 7a													
Not typeable													
RDNC													
U 302													

Phagetype	Bakery products - cakes	Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products		Meat from turkey - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	1		1		6		48		2		1		5
Number of isolates phagetyped	1		1		5		41		2		1		3
Number of isolates per phagetype													
DT 1													
DT 104	1						9		1				3

Table Salmonella Typhimurium phage types in food

Phagetype	Bakery products - cakes	Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products		Meat from turkey - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	1		1		6		48		2		1		5
Number of isolates phagetyped	1		1		5		41		2		1		3
Number of isolates per phagetype													
DT 110							3						
DT 120							17						
DT 126a													
DT 193							2						
DT 193a							2						
DT 2							1						
DT 20a							1						
DT 30					1								
DT 7a													
Not typeable					1		5		1		1		
RDNC			1		1								

Table Salmonella Typhimurium phage types in food

Phagetype	Bakery products - cakes	Eggs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from rabbit - meat products		Meat from turkey - meat products	
	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates													
Number of isolates in the laboratory	1		1		6		48		2		1		5
Number of isolates phagetyped	1		1		5		41		2		1		3
Number of isolates per phagetype													
U 302					2		1						

Phagetype	Meat from wild boar - meat products		Molluscan shellfish		Other food	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates						
Number of isolates in the laboratory		1		13		1
Number of isolates phagetyped		1		12		1
Number of isolates per phagetype						
DT 1		1		3		
DT 104						1
DT 110						
DT 120						
DT 126a				1		

Table Salmonella Typhimurium phage types in food

Phagetype	Meat from wild boar - meat products		Molluscan shellfish		Other food	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates						
Number of isolates in the laboratory		1		13		1
Number of isolates phagetyped		1		12		1
Number of isolates per phagetype						
DT 193				2		
DT 193a						
DT 2						
DT 20a						
DT 30						
DT 7a				1		
Not typeable				3		
RDNC				1		
U 302				1		

Table S. Typhimurium, monophasic phagetypes in Animals

Phagetype	Cats - pet animals				Cattle (bovine animals)				Dogs - pet animals				Foxes - wild
	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Sources of isolates													
Number of isolates in the laboratory			1				14				5		
Number of isolates phagetyped			1				10				4		
Number of isolates per phagetype													
DT 120							2				2		
DT 193							3						
DT 20a											1		
DT 41													
DT 7a													
Not typeable							5						
RDNC			1								1		
U 302													
U 311													

Table S. Typhimurium, monophasic phagetypes in Animals

Phagetype	Foxes - wild			Gallus gallus (fowl)				Geese - breeding flocks, unspecified				Night herons	
	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Sources of isolates													
Number of isolates in the laboratory		1				18				2			
Number of isolates phagetyped		1				13				2			
Number of isolates per phagetype													
DT 120						1				1			
DT 193		1				5							
DT 20a										1			
DT 41						2							
DT 7a						1							
Not typeable						2							
RDNC													
U 302													
U 311						2							

Table S. Typhimurium, monophasic phagetypes in Animals

Phagetype	Night herons		Other animals				Pigs				Turkeys		
	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Sources of isolates													
Number of isolates in the laboratory	1				5				177				9
Number of isolates phagetyped	1				5				140				8
Number of isolates per phagetype													
DT 120					2				24				1
DT 193					1				38				6
DT 20a					1				16				
DT 41													
DT 7a									2				1
Not typeable									29				
RDNC	1								5				
U 302					1				1				
U 311									25				

Table S. Typhimurium, monophasic phagetypes in Animals

Phagetype	Turkeys
Sources of isolates	Surveillance
Number of isolates in the laboratory	
Number of isolates phagetyped	
Number of isolates per phagetype	
DT 120	
DT 193	
DT 20a	
DT 41	
DT 7a	
Not typeable	
RDNC	
U 302	
U 311	

Table S. Typhimurium, monophasic phagetypes in Food

Phagetype	All foodstuffs		Meat from bovine animals - meat products		Meat from pig - meat products		Meat from poultry, unspecified - meat products		Meat from turkey - meat products		Molluscan shellfish	
	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Sources of isolates												
Number of isolates in the laboratory		10		29		130		3		14		10
Number of isolates phagetyped		7		24		111		3		13		9
Number of isolates per phagetype												
DT 120		2		1		13				1		1
DT 139						1						
DT 193		1		9		34						4
DT 20a		2		1		16						
DT 30						1						
DT 7a										3		
Not typeable				3		11		2		2		
RDNC				1		4				2		1
U 302				2								
U 311		2		7		31		1		5		3

Table S. Typhimurium, monophasic phagetypes in Food

2.1.6 Antimicrobial resistance in Salmonella isolates

A. Antimicrobial resistance in Salmonella in cattle

Laboratory used for detection for resistance

Cut-off values used in testing

MIC testing at NRL-AR. Antimicrobials included according to EFSA guidelines and Comm. Dec. 2007/407/EC.

EUCAST epidemiological cut-off values used for the interpretation of susceptibility tests (according to Comm. Dec. 2007/407/EC).

National evaluation of the recent situation, the trends and sources of infection

In 2012, 14 isolates were available for testing. Fully susceptible isolates were 57.1% (n=8), Similarly to what had been in the previous year, multiresistance was also widespread, reaching 42.8% (including n=4 S. Typhimurium, 2 monophasic S. Typhimurium, n=2 S. London). Fluoroquinolone resistance was 14.2%, while non ESC resistance was detected., a picture very similar to the previous year.

B. Antimicrobial resistance in Salmonella in pigs

Laboratory used for detection for resistance

Cut-off values used in testing

MIC testing at NRL-AR. Antimicrobials included according to EFSA guidelines and Comm. Dec. 2007/407/EC.

EUCAST epidemiological cut-off values used for the interpretation of susceptibility tests (according to Comm. Dec. 2007/407/EC).

National evaluation of the recent situation, the trends and sources of infection

In 2012 a total 25 isolates were made available from pig primary productions, with no Enteritidis, no S. Typhimurium and n=2 monophasic S. Typhimurium. Other dominant serovars were S. Derby (n=6), S. Rissen (n=3), S. Cholerae suis (n=3). Fully susceptible isolates represented 40% (n=10), while multiresistant isolates were 32%, (n=8). Fluoroquinolone resistance was 12%, a similar picture also observed in 2011. An apparent decrease in multiresistance rate was noticed in 2012, when compared to previous years, although this may be due to the low number of isolates available for susceptibility testing, especially of isolates of some prevalent multiresistant clones (e. g S. Thyphimurium).

C. Antimicrobial resistance in Salmonella in poultry

Laboratory used for detection for resistance

Cut-off values used in testing

MIC testing at NRL-AR. Antimicrobials included according to EFSA guidelines and Comm. Dec. 2007/407/EC.

EUCAST epidemiological cut-off values used for the interpretation of susceptibility tests (according to Comm. Dec. 2007/407/EC).

National evaluation of the recent situation, the trends and sources of infection

Sampling context: National Control Programmes in Gallus gallus

a. Broilers

In the year 2012 n=77 *Salmonella* (all serovars) isolates were made available for susceptibility testing, with no *S. Enteritidis* and one *S. Typhimurium*. Among isolates, 51.9% (40/77) were fully susceptible, while 36.4% (28/77) showed multiresistance (3+ resistances to unrelated antimicrobials). Fluoroquinolone resistance (FQ-R) was 35.1% (27/77, MIC range 0.25-1, mode 0.25 mg/L), with all FQ-R isolates which proved to be also multiresistant.

Isolates resistant to Expanded Spectrum Cephalosporins (ESC-R; Cefotaxime, CTX or Ceftazidime, CAZ), were 15.6% (12/77), and almost all (11/12) were also resistant to FQ and also multiresistant (3+ R). This picture is more similar to what had been observed in previous years (2008-2009), when a rise in ESC-R had been observed in broiler industry. Most of ESC-R isolates were *S. Infantis*, a cluster that is reasonably associated with the structure of poultry production.

b. Laying hens

In the year 2012, from the national *Salmonella* control programme in laying hens, n=155 isolates (all serovars) were made available for susceptibility testing at the NRL-AR, including n=25 *S. Enteritidis*, n=9 *S. Typhimurium* (including monophasic *S. Typhimurium*).

Fully susceptible isolates represented 68.4% (n=106) of all isolates tested, while multiresistance was observed in 14.2% (n=22) of all isolates, with *S. Kentucky* (n=11) and all *S. Typhimurium* as the most frequent multiresistant serovars. Fluoroquinolone resistance was 19.3% (n=30) with a MIC range 0.25-1, mode 0.25 mg/L, with nearly half of FQ-R isolates which proved to be also multiresistant. Two isolates (1.3%) were ESC-R (*S. Kentucky*). The general picture is similar to the previous year.

c. Breeding flocks Gallus gallus

In the year 2012, n=29 isolates were made available for testing at the NRL-AR, including one *S. Enteritidis* and no *S. Typhimurium*. The majority (74.2%, n=12) of isolates were fully susceptible, and 17.2% (n=5) showed multiresistance, with n= 4 were all also FQ-R (13.8%, 4/29). One isolate (*S. Agona*) was ESC-R resistant to 7 unrelated antimicrobial drugs, including (fluoro)quinolones.

Sampling context: National Control Programme in turkeys

In the year 2012, n=42 isolates were made available and tested at the NRL-AR, including 2 *S. Typhimurium*, 4 monophasic *S. Typhimurium* and no *S. Enteritidis*. Other dominant serovars were *S. Blockley* (n=10), *S. Newport* (n=6). No fully susceptible isolate was detected, as reported in the previous year.. Conversely, almost all isolates (85.7%) showed multiresistance, and 38.5% FQ resistance (all multiresistant isolates). Range of FQ-R was 0.12-1 mg/L, with a mode of 0.25 mg/L. Resistance to ESC was detected in two isolates (2.8%), belonging to *S. Derby* and *S. Typhimurium* serovars. The picture is

very similar to what had been reported in 2011, except for ESC-R, which had not been observed in the previous two years (2010-2011).

Sampling context: Passive Surveillance

Salmonella

Fowl (*Gallus gallus*), unspecified

In 2012, passive laboratory surveillance provided n=27 isolates, with 1 *S. Enteritidis*, no *S. Typhimurium*, and with *S. Livingstone* and *S. Kentucky* among dominant serovars. Fully susceptible isolates were 48.1% (n=13), and multiresistant ones were 18.5% (n=5), FQ resistance accounted for 37.0% (n=10) of all isolates, with n=4 isolates also multiresistant. No ESC-R were detected. This picture suggests that isolates from laying hens may be the majority in this unspecified category.

Fowl (*Gallus gallus*), broilers

In 2012, 28 isolates from passive surveillance were made available for testing at the NRL-AR. Fully susceptible isolates were 53,6% (15/28), of those tested, and multiresistance

Additional information

General Evaluation form of Salmonella

Antimicrobial Resistance in Salmonella

In the year 2012, n=634 *Salmonella* sp. (*Salmonella* of all serovars and unidentified *Salmonella* spp.) were sent to and tested by the NRL for Antimicrobial Resistance, IZSLT, Rome, Italy. The vast majority of these isolates were from farm animals and food of animal origin.

In Italy, National Control and Eradication Programmes, conducted in poultry only (breeding, laying, broiler flocks of *Gallus gallus* and turkey breeding and meat production flocks), are one of the representative source of isolates, although the positive effects of control has been decreasing prevalence in Italian holdings of poultry. As a consequence, monitoring of antimicrobial resistance in *Salmonella* needs an integration of isolates detected through passive monitoring/surveillance in poultry, and especially in other primary productions that are not subject to NCPs (e. g. pigs, cattle) and in food of animal origin.

The implementation of monitoring of antimicrobial resistance in animal primary productions with a monitoring programme on other *indicator* bacteria at national level has been deemed advisable also in the previous years. The reason is that enteric commensal bacteria (e. g. *Escherichia coli*) are a major source and reservoir of resistance genes and mechanisms. This objective may be reached through progressive steps, prioritising the effort in some production types. Additionally, in some productions subject to National Control and Eradication Programmes for *Salmonella*, an optimisation of the sampling effort could easily lead to further sampling for indicator bacteria to be investigated for AMR at the NRL-AR.

In conclusion, monitoring of antimicrobial resistance in primary productions in Italy in 2012 showed a picture similar to what has been observed in 2011, with high rates of multi-resistance, widespread in *Salmonella* isolates provided through the national control programmes (NCPs). Multiresistance was found most frequently towards beta-lactams, sulphonamides, trimethoprim, aminoglycosides, and tetracyclines, although also resistance to fluoroquinolones is often detected within multiresistance patterns. These figures are similar to those observed in the previous years.

Multiresistance rates are highest in turkeys, and still relevant appears in broilers and laying hens.

Concerns remain for of Extended Spectrum Cephalosporin resistance (ESC-R) in *Salmonella* from broiler industry, with an apparent increase compared to 2010 and 2011.

Resistance rates for other classes of Critically Important Antimicrobials (CIAs) such as fluoroquinolones remains important.

High level of multiresistance has been detected in *Salmonella* serovars associated with pig primary productions and, as a consequence, along the food chain in meat from pigs and products thereof.

D. Antimicrobial resistance in Salmonella in foodstuff derived from pigs

Laboratory used for detection for resistance

Cut-off values used in testing

MIC testing at NRL-AR. Antimicrobials included according to EFSA guidelines and Comm. Dec. 2007/407/EC.

EUCAST epidemiological cut-off values used for the interpretation of susceptibility tests (according to Comm. Dec. 2007/407/EC).

National evaluation of the recent situation, the trends and sources of infection

In 2012, 85 isolates detected in meat from pigs were tested at the NRL, with no Enteritidis, 18 S. Typhimurium and n=8 monophasic S. Typhimurium. Other dominant serovars were S. Derby (n=26) and S. Rissen (n=9). Fully susceptible isolates from meat were 37.6% (n=32), and multiresistance reached 50.6% of all isolates tested (n=43). Non ESC resistance was detected, and FQ resistance was 1.2%, detected in multiresistant isolate. The distribution and resistance pattern of isolates is similar to what has been found in pig primary productions and the same applies for meat preparations and meat products.

Table Antimicrobial susceptibility testing of *S. Agona* in Compound feedingstuffs, not specified - at farm - Surveillance - quantitative data
[Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Compound feedingstuffs, not specified - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Agona* in Compound feedingstuffs, not specified - at farm - Surveillance - quantitative data
[Dilution method]

S. Agona	Compound feedingstuffs, not specified - at farm - Surveillance	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Senftenberg* in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Senftenberg	All feedingstuffs - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0							1																	
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0														1										
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Senftenberg* in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Senftenberg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	All feedingstuffs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Langford in Compound feedingstuffs for cattle - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Langford	Compound feedingstuffs for cattle - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																		1							
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Langford* in Compound feedingstuffs for cattle - at farm - Surveillance - quantitative data [Dilution method]

S. Langford Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Compound feedingstuffs for cattle - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Veneziana* in Compound feedingstuffs for cattle - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Compound feedingstuffs for cattle - at farm - Surveillance																											
			13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048				
Aminoglycosides - Gentamicin	2	1	0										1																	
Aminoglycosides - Kanamycin	8	1	0													1														
Aminoglycosides - Streptomycin	32	1	0													1														
Amphenicols - Chloramphenicol	16	1	0														1													
Amphenicols - Florfenicol	16	1	0													1														
Cephalosporins - Cefotaxime	0.5	1	0							1																				
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																					
Penicillins - Ampicillin	8	1	0											1																
Quinolones - Nalidixic acid	16	1	0													1														
Sulfonamides	256	1	0																1											
Tetracyclines - Tetracycline	8	1	0												1															
Trimethoprim	2	1	0										1																	
Cephalosporins - Ceftazidim	2	1	0									1																		

Table Antimicrobial susceptibility testing of *S. Veneziana* in Compound feedingstuffs for cattle - at farm - Surveillance - quantitative data
[Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Compound feedingstuffs for cattle - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Agona	Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Agona* in Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Haifa in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		All feedingstuffs - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	1																1										
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0														1												
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0							1																			
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0														1												
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Haifa* in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	All feedingstuffs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Livingstone		All feedingstuffs - unspecified - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		13																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	1	0										1													
Aminoglycosides - Kanamycin		8	1	0													1										
Aminoglycosides - Streptomycin		32	1	0															1								
Amphenicols - Chloramphenicol		16	1	0													1										
Amphenicols - Florfenicol		16	1	0													1										
Cephalosporins - Cefotaxime		0.5	1	0							1																
Fluoroquinolones - Ciprofloxacin		0.06	1	0						1																	
Penicillins - Ampicillin		8	1	0											1												
Quinolones - Nalidixic acid		16	1	0													1										
Sulfonamides		256	1	0																1							
Tetracyclines - Tetracycline		8	1	0												1											
Trimethoprim		2	1	0										1													
Cephalosporins - Ceftazidim		2	1	0										1													

Table Antimicrobial susceptibility testing of *S. Livingstone* in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	All feedingstuffs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bovismorbificans in Compound feedingstuffs, not specified - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Bovismorbificans	Compound feedingstuffs, not specified - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Bovismorbificans* in Compound feedingstuffs, not specified - unspecified - Surveillance - quantitative data [Dilution method]

S. Bovismorbificans	Compound feedingstuffs, not specified - unspecified - Surveillance	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Compound feedingstuffs, not specified - at farm - Surveillance - quantitative data
[Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Compound feedingstuffs, not specified - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Rissen* in Compound feedingstuffs, not specified - at farm - Surveillance - quantitative data
[Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Compound feedingstuffs, not specified - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Tennessee in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Tennessee Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		All feedingstuffs - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0														1												
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Tennessee* in All feedingstuffs - unspecified - Surveillance - quantitative data [Dilution method]

S. Tennessee Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	All feedingstuffs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Eggs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Eggs - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Livingstone* in Eggs - unspecified - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Eggs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Meat from broilers (Gallus gallus) - at cutting plant - Surveillance - quantitative data
[Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from broilers (Gallus gallus) - at cutting plant - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	1																		1								
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0															1											
Amphenicols - Florfenicol	16	1	0														1												
Cephalosporins - Cefotaxime	0.5	1	0									1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0													1													
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																			1							
Tetracyclines - Tetracycline	8	1	0														1												
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Mbandaka* in Meat from broilers (*Gallus gallus*) - at cutting plant - Surveillance - quantitative data
[Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Meat from broilers (<i>Gallus gallus</i>) - at cutting plant - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Abony in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Abony Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Molluscan shellfish - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Abony* in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Abony Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Bredeney* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Bredeney	Meat from pig - at cutting plant - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0											1													
Aminoglycosides - Kanamycin	8	1	1																		1						
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Bredeney* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Meat from broilers (Gallus gallus) - at retail - Surveillance - quantitative data
[Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from broilers (Gallus gallus) - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0									1																	
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Thompson* in Meat from broilers (*Gallus gallus*) - at retail - Surveillance - quantitative data
[Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from broilers (<i>Gallus gallus</i>) - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Thompson		Meat from pig - at cutting plant - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		26																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	2	0										2													
Aminoglycosides - Kanamycin		8	2	0													2										
Aminoglycosides - Streptomycin		32	2	0														2									
Amphenicols - Chloramphenicol		16	2	0														2									
Amphenicols - Florfenicol		16	2	0													2										
Cephalosporins - Cefotaxime		0.5	2	0							1	1															
Fluoroquinolones - Ciprofloxacin		0.06	2	0						2																	
Penicillins - Ampicillin		8	2	0											1	1											
Quinolones - Nalidixic acid		16	2	0													2										
Sulfonamides		256	2	0																2							
Tetracyclines - Tetracycline		8	2	0												2											
Trimethoprim		2	2	0										2													
Cephalosporins - Ceftazidim		2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Thompson* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance																									
	26																									
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	≥4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0									1	1													
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	1													1					1					
Amphenicols - Chloramphenicol	16	2	0														2									
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin	0.06	2	0			2																				
Penicillins - Ampicillin	8	2	1													1			1							
Quinolones - Nalidixic acid	16	2	0													1	1									
Sulfonamides	256	2	1														1								1	
Tetracyclines - Tetracycline	8	2	1													1				1						
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Cheeses, made from mixed milk from cows, sheep and/or goats - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. diarizonae	Cheeses, made from mixed milk from cows, sheep and/or goats - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0														1										
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Cheeses, made from mixed milk from cows, sheep and/or goats - at farm - Surveillance - quantitative data [Dilution method]

<i>S. enterica</i> subsp. <i>diarizonae</i> Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cheeses, made from mixed milk from cows, sheep and/or goats - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat, mixed meat - at retail - Surveillance																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	0										3																
Aminoglycosides - Kanamycin	8	3	0													3													
Aminoglycosides - Streptomycin	32	3	0														1	2											
Amphenicols - Chloramphenicol	16	3	0														3												
Amphenicols - Florfenicol	16	3	0													1	2												
Cephalosporins - Cefotaxime	0.5	3	0								3																		
Fluoroquinolones - Ciprofloxacin	0.06	3	0			1			2																				
Penicillins - Ampicillin	8	3	0											2	1														
Quinolones - Nalidixic acid	16	3	0													2	1												
Sulfonamides	256	3	1																1	1					1				
Tetracyclines - Tetracycline	8	3	1												2					1									
Trimethoprim	2	3	1										2						1										
Cephalosporins - Ceftazidim	2	3	0										3																

Table Antimicrobial susceptibility testing of *S. Derby* in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at retail - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - unspecified - Surveillance																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	0										3																
Aminoglycosides - Kanamycin	8	3	0													3													
Aminoglycosides - Streptomycin	32	3	0														3												
Amphenicols - Chloramphenicol	16	3	0													1	2												
Amphenicols - Florfenicol	16	3	0												2	1													
Cephalosporins - Cefotaxime	0.5	3	0								3																		
Fluoroquinolones - Ciprofloxacin	0.06	3	0			1			2																				
Penicillins - Ampicillin	8	3	1											2					1										
Quinolones - Nalidixic acid	16	3	0													3													
Sulfonamides	256	3	0																1	2									
Tetracyclines - Tetracycline	8	3	0											1	2														
Trimethoprim	2	3	0										3																
Cephalosporins - Ceftazidim	2	3	0									2	1																

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from bovine animals - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from bovine animals - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat from bovine animals - meat preparation - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from bovine animals - meat preparation - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat from bovine animals - meat preparation - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Meat from bovine animals - meat preparation - at retail - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Rissen		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Meat from pig - unspecified - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		26																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	2	0										2													
Aminoglycosides - Kanamycin		8	2	0													2										
Aminoglycosides - Streptomycin		32	2	1														1				1					
Amphenicols - Chloramphenicol		16	2	0														2									
Amphenicols - Florfenicol		16	2	0														2									
Cephalosporins - Cefotaxime		0.5	2	0							1	1															
Fluoroquinolones - Ciprofloxacin		0.06	2	0						2																	
Penicillins - Ampicillin		8	2	1											1					1							
Quinolones - Nalidixic acid		16	2	0													2										
Sulfonamides		256	2	1																	1					1	
Tetracyclines - Tetracycline		8	2	1												1					1						
Trimethoprim		2	2	1										1						1							
Cephalosporins - Ceftazidim		2	2	0									1	1													

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Veneziana* in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Molluscan shellfish - unspecified - Surveillance																										
		13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Veneziana* in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Meat from bovine animals - meat preparation - at catering - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Hadar	Meat from bovine animals - meat preparation - at catering - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																	1							
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Hadar* in Meat from bovine animals - meat preparation - at catering - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Meat from bovine animals - meat preparation - at catering - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Infantis* in Meat from broilers (*Gallus gallus*) - at catering - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Meat from broilers (Gallus gallus) - at catering - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0																1									
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1										1															
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Infantis* in Meat from broilers (*Gallus gallus*) - at catering - Surveillance - quantitative data
[Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from broilers (<i>Gallus gallus</i>) - at catering - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kedougou in Meat, mixed meat - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kedougou	Meat, mixed meat - at cutting plant - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kedougou* in Meat, mixed meat - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Kedougou Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at cutting plant - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Molluscan shellfish - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Molluscan shellfish - at retail - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0										1	1												
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	1														1				1					
Amphenicols - Chloramphenicol	16	2	1													1				1						
Amphenicols - Florfenicol	16	2	0												1			1								
Cephalosporins - Cefotaxime	0.5	2	0							1	1															
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																	
Penicillins - Ampicillin	8	2	1											1					1							
Quinolones - Nalidixic acid	16	2	0													2										
Sulfonamides	256	2	1																1						1	
Tetracyclines - Tetracycline	8	2	1												1					1						
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Molluscan shellfish - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - at retail - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Meat from turkey - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Meat from pig - at cutting plant - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	52																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	4	0										4														
Aminoglycosides - Kanamycin	8	4	0													4											
Aminoglycosides - Streptomycin	32	4	4																	4							
Amphenicols - Chloramphenicol	16	4	0													1	3										
Amphenicols - Florfenicol	16	4	0													4											
Cephalosporins - Cefotaxime	0.5	4	0							2	2																
Fluoroquinolones - Ciprofloxacin	0.06	4	0						4																		
Penicillins - Ampicillin	8	4	4																4								
Quinolones - Nalidixic acid	16	4	0													4											
Sulfonamides	256	4	4																						4		
Tetracyclines - Tetracycline	8	4	4																	4							
Trimethoprim	2	4	0										4														
Cephalosporins - Ceftazidim	2	4	0									4															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Manhattan in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Manhattan* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Meat from bovine animals - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	4	0										4														
Aminoglycosides - Kanamycin	8	4	1													3					1						
Aminoglycosides - Streptomycin	32	4	1															2	1	1							
Amphenicols - Chloramphenicol	16	4	1													2	1			1							
Amphenicols - Florfenicol	16	4	1													3				1							
Cephalosporins - Cefotaxime	0.5	4	0							1	3																
Fluoroquinolones - Ciprofloxacin	0.06	4	0			1			3																		
Penicillins - Ampicillin	8	4	1											3					1								
Quinolones - Nalidixic acid	16	4	0													4											
Sulfonamides	256	4	1															1	1	1					1		
Tetracyclines - Tetracycline	8	4	2											1	1					2							
Trimethoprim	2	4	1										3						1								
Cephalosporins - Ceftazidim	2	4	0										4														

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from bovine animals - at retail - Surveillance	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Meat from pig - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	12	1										11					1									
Aminoglycosides - Kanamycin	8	12	1													11				1							
Aminoglycosides - Streptomycin	32	12	6														5	1			6						
Amphenicols - Chloramphenicol	16	12	1													3	8			1							
Amphenicols - Florfenicol	16	12	1													6	5			1							
Cephalosporins - Cefotaxime	0.5	12	0							5	7																
Fluoroquinolones - Ciprofloxacin	0.06	12	0			6			5	1																	
Penicillins - Ampicillin	8	12	0											12													
Quinolones - Nalidixic acid	16	12	0													12											
Sulfonamides	256	12	6															1	2	3					6		
Tetracyclines - Tetracycline	8	12	7											2	3					7							
Trimethoprim	2	12	1										11						1								
Cephalosporins - Ceftazidim	2	12	0									5	7														

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	156	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Molluscan shellfish - unspecified - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Molluscan shellfish - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Molluscan shellfish - unspecified - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Molluscan shellfish - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0											1															
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																	1									
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0														1												
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	1																1										
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Rissen* in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Rissen	Meat from pig - at cutting plant - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	5	0										5														
Aminoglycosides - Kanamycin	8	5	0													5											
Aminoglycosides - Streptomycin	32	5	1														4				1						
Amphenicols - Chloramphenicol	16	5	0													1	4										
Amphenicols - Florfenicol	16	5	0													1	4										
Cephalosporins - Cefotaxime	0.5	5	0							1	4																
Fluoroquinolones - Ciprofloxacin	0.06	5	0						5																		
Penicillins - Ampicillin	8	5	2											1	2				2								
Quinolones - Nalidixic acid	16	5	0													5											
Sulfonamides	256	5	1																2	2					1		
Tetracyclines - Tetracycline	8	5	3												2					3							
Trimethoprim	2	5	0										5														
Cephalosporins - Ceftazidim	2	5	0									1	4														

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	65	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Meat from turkey - at retail - Surveillance																										
		13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0																1									
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	1																1									
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Saintpaul* in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Meat from turkey - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Meat from turkey - at cutting plant - Surveillance																										
		13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Hadar* in Meat from turkey - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - at cutting plant - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Meat from broilers (Gallus gallus) - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Meat from broilers (Gallus gallus) - at retail - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									1	1															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0																2									
Amphenicols - Chloramphenicol	16	2	0														1	1										
Amphenicols - Florfenicol	16	2	0														2											
Cephalosporins - Cefotaxime	0.5	2	0									2																
Fluoroquinolones - Ciprofloxacin	0.06	2	2										1	1														
Penicillins - Ampicillin	8	2	0												2													
Quinolones - Nalidixic acid	16	2	2																	2								
Sulfonamides	256	2	2																						2			
Tetracyclines - Tetracycline	8	2	2																	2								
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0											2														

Table Antimicrobial susceptibility testing of *S. Infantis* in Meat from broilers (*Gallus gallus*) - at retail - Surveillance - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from broilers (<i>Gallus gallus</i>) - at retail - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Brandenburg in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Brandenburg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	1																1										
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Brandenburg* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Brandenburg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Meat from bovine animals - at retail - Surveillance																									
		26																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	2																		2						
Amphenicols - Chloramphenicol	16	2	0													1	1										
Amphenicols - Florfenicol	16	2	0													2											
Cephalosporins - Cefotaxime	0.5	2	0							2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																		
Penicillins - Ampicillin	8	2	2																2								
Quinolones - Nalidixic acid	16	2	0													2											
Sulfonamides	256	2	2																						2		
Tetracyclines - Tetracycline	8	2	2																	2							
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from bovine animals - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from bovine animals - at retail - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from rabbit - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Meat from rabbit - at cutting plant - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	1																1									
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	1																1									
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from rabbit - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from rabbit - at cutting plant - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from broilers (Gallus gallus) - at retail - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Meat from broilers (Gallus gallus) - at retail - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	2																	1	1							
Amphenicols - Chloramphenicol	16	2	2																	2								
Amphenicols - Florfenicol	16	2	2																2									
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	2																2									
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	2																						2			
Tetracyclines - Tetracycline	8	2	2																2									
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from broilers (*Gallus gallus*) - at retail - Surveillance - quantitative data
[Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from broilers (<i>Gallus gallus</i>) - at retail - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Give in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at cutting plant - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Give* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bredeney in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Bredeney		Molluscan shellfish - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0									1																	
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of S. Bredeney in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Molluscan shellfish - unspecified - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kottbus in Meat from turkey - unspecified - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from turkey - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0												1														
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	1																1										
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Kottbus* in Meat from turkey - unspecified - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Live bivalve molluscs - unspecified - Surveillance - quantitative data
 [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Live bivalve molluscs - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Live bivalve molluscs - unspecified - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Live bivalve molluscs - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Meat from pig - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	1																1									
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat from bovine animals - meat preparation - at retail - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Meat from bovine animals - meat preparation - at retail - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from bovine animals - meat preparation - at retail - Surveillance - quantitative data
 [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Meat from bovine animals - meat preparation - at retail - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at cutting plant - Surveillance																											
		130																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	10	0										10																
Aminoglycosides - Kanamycin	8	10	1													9		1											
Aminoglycosides - Streptomycin	32	10	5														3	2			5								
Amphenicols - Chloramphenicol	16	10	0														10												
Amphenicols - Florfenicol	16	10	0													6	4												
Cephalosporins - Cefotaxime	0.5	10	0							2	8																		
Fluoroquinolones - Ciprofloxacin	0.06	10	0			2			8																				
Penicillins - Ampicillin	8	10	2											6	2			1	1										
Quinolones - Nalidixic acid	16	10	0													10													
Sulfonamides	256	10	5																3	2			1		4				
Tetracyclines - Tetracycline	8	10	5												5					5									
Trimethoprim	2	10	1										9						1										
Cephalosporins - Ceftazidim	2	10	0									2	8																

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	130	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Meat from bovine animals - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Meat from bovine animals - at slaughterhouse - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Meat from bovine animals - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Meat from bovine animals - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Panama in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Panama	Meat from pig - at retail - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0										2													
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	0														2									
Amphenicols - Chloramphenicol	16	2	0													1	1									
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																	
Penicillins - Ampicillin	8	2	1											1					1							
Quinolones - Nalidixic acid	16	2	0													2										
Sulfonamides	256	2	1																1						1	
Tetracyclines - Tetracycline	8	2	1											1						1						
Trimethoprim	2	2	1										1						1							
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Panama* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Panama Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Meat, mixed meat - at retail - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		26																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	2	1										1						1							
Aminoglycosides - Kanamycin		8	2	0													1	1									
Aminoglycosides - Streptomycin		32	2	1														1				1					
Amphenicols - Chloramphenicol		16	2	1														1			1						
Amphenicols - Florfenicol		16	2	0													1		1								
Cephalosporins - Cefotaxime		0.5	2	0								2															
Fluoroquinolones - Ciprofloxacin		0.06	2	1						1				1													
Penicillins - Ampicillin		8	2	1											1					1							
Quinolones - Nalidixic acid		16	2	1													1				1						
Sulfonamides		256	2	1																1						1	
Tetracyclines - Tetracycline		8	2	1												1					1						
Trimethoprim		2	2	1										1						1							
Cephalosporins - Ceftazidim		2	2	0										2													

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at retail - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Meat from broilers (Gallus gallus) - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Hadar	Meat from broilers (Gallus gallus) - at retail - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Hadar* in Meat from broilers (*Gallus gallus*) - at retail - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from broilers (<i>Gallus gallus</i>) - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Brandenburg in Meat, mixed meat - at cutting plant - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Brandenburg	Meat, mixed meat - at cutting plant - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of S. Brandenburg in Meat, mixed meat - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Brandenburg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at cutting plant - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from bovine animals - at cutting plant - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Meat from bovine animals - at cutting plant - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	1														1				1							
Amphenicols - Chloramphenicol	16	2	0													2												
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	1											1					1									
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	1																1							1		
Tetracyclines - Tetracycline	8	2	0												2													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from bovine animals - at cutting plant - Surveillance - quantitative data
[Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from bovine animals - at cutting plant - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat, mixed meat - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Meat, mixed meat - unspecified - Surveillance																									
			13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat, mixed meat - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Typhimurium		Meat from pig - unspecified - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		65																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	5	0										4	1												
Aminoglycosides - Kanamycin		8	5	0													5										
Aminoglycosides - Streptomycin		32	5	5																	1	4					
Amphenicols - Chloramphenicol		16	5	1													3	1			1						
Amphenicols - Florfenicol		16	5	1													4				1						
Cephalosporins - Cefotaxime		0.5	5	0							4	1															
Fluoroquinolones - Ciprofloxacin		0.06	5	0						5																	
Penicillins - Ampicillin		8	5	5																5							
Quinolones - Nalidixic acid		16	5	0													5										
Sulfonamides		256	5	5																						5	
Tetracyclines - Tetracycline		8	5	5																1	4						
Trimethoprim		2	5	1										4						1							
Cephalosporins - Ceftazidim		2	5	0								4	1														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from pig - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - unspecified - Surveillance	
	65	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bredeney in Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance																									
			13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Bredeney* in Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Compound feedingstuffs for poultry (non specified) - unspecified - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Give in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at slaughterhouse - Surveillance																											
Antimicrobials:	13																												
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
	Aminoglycosides - Gentamicin	2	1	0										1															
	Aminoglycosides - Kanamycin	8	1	0												1													
	Aminoglycosides - Streptomycin	32	1	0													1												
	Amphenicols - Chloramphenicol	16	1	0													1												
	Amphenicols - Florfenicol	16	1	0												1													
	Cephalosporins - Cefotaxime	0.5	1	0								1																	
	Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
	Penicillins - Ampicillin	8	1	0											1														
	Quinolones - Nalidixic acid	16	1	0													1												
	Sulfonamides	256	1	0																	1								
	Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Give* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kapemba in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kapemba	Meat from pig - at slaughterhouse - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0											1														
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1										1															
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	1																1									
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Kapemba* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Kapemba Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenster in Meat from bovine animals - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenster	Meat from bovine animals - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Muenster* in Meat from bovine animals - at farm - Surveillance - quantitative data [Dilution method]

S. Muenster Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from bovine animals - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Molluscan shellfish - unspecified - Surveillance																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	0										3																
Aminoglycosides - Kanamycin	8	3	0													3													
Aminoglycosides - Streptomycin	32	3	1														2				1								
Amphenicols - Chloramphenicol	16	3	0													1	1	1											
Amphenicols - Florfenicol	16	3	0													3													
Cephalosporins - Cefotaxime	0.5	3	0							2	1																		
Fluoroquinolones - Ciprofloxacin	0.06	3	0						3																				
Penicillins - Ampicillin	8	3	2												1				2										
Quinolones - Nalidixic acid	16	3	0													3													
Sulfonamides	256	3	1															1		1					1				
Tetracyclines - Tetracycline	8	3	1												2					1									
Trimethoprim	2	3	0										3																
Cephalosporins - Ceftazidim	2	3	0									3																	

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Molluscan shellfish - unspecified - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Molluscan shellfish - unspecified - Surveillance	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
	Meat from pig - at cutting plant - Surveillance																										
	39																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	0										3														
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	3																		3						
Amphenicols - Chloramphenicol	16	3	1													1	1			1							
Amphenicols - Florfenicol	16	3	1													2				1							
Cephalosporins - Cefotaxime	0.5	3	0							3																	
Fluoroquinolones - Ciprofloxacin	0.06	3	0						3																		
Penicillins - Ampicillin	8	3	3																3								
Quinolones - Nalidixic acid	16	3	0													3											
Sulfonamides	256	3	3																						3		
Tetracyclines - Tetracycline	8	3	3																	3							
Trimethoprim	2	3	0										3														
Cephalosporins - Ceftazidim	2	3	0									3															

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. 4,12:i:-	Meat from pig - at cutting plant - Surveillance	
Isolates out of a monitoring program (yes/no)		
Number of isolates available in the laboratory	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Meat from pig - at cutting plant - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Meat from pig - at cutting plant - Surveillance																									
		13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Meat from pig - at cutting plant - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Meat from turkey - unspecified - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from turkey - unspecified - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1										1																
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	1																	1									
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of S. Derby in Meat from turkey - unspecified - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Panama in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Panama Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at cutting plant - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	1																1										
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Panama* in Meat from pig - at cutting plant - Surveillance - quantitative data [Dilution method]

S. Panama Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at cutting plant - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat, mixed meat - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0																1										
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Saintpaul* in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat, mixed meat - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																	
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	1																	1									
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Hadar* in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Napoli in Eggs - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Napoli	Eggs - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Napoli* in Eggs - at retail - Surveillance - quantitative data [Dilution method]

S. Napoli Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Eggs - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Meat, mixed meat - at retail - Surveillance																										
		Isolates out of a monitoring program (yes/no)																										
Antimicrobials:		Number of isolates available in the laboratory																										
		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin		2	1	0								1																
Aminoglycosides - Kanamycin		8	1	0												1												
Aminoglycosides - Streptomycin		32	1	0													1											
Amphenicols - Chloramphenicol		16	1	0											1													
Amphenicols - Florfenicol		16	1	0											1													
Cephalosporins - Cefotaxime		0.5	1	0						1																		
Fluoroquinolones - Ciprofloxacin		0.06	1	0					1																			
Penicillins - Ampicillin		8	1	0										1														
Quinolones - Nalidixic acid		16	1	0												1												
Sulfonamides		256	1	1																						1		
Tetracyclines - Tetracycline		8	1	1																1								
Trimethoprim		2	1	1															1									
Cephalosporins - Ceftazidim		2	1	0								1																

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat, mixed meat - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat, mixed meat - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from sheep - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from sheep - at slaughterhouse - Surveillance																											
		52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	4	0										3	1															
Aminoglycosides - Kanamycin	8	4	0													4													
Aminoglycosides - Streptomycin	32	4	1														3			1									
Amphenicols - Chloramphenicol	16	4	1													3				1									
Amphenicols - Florfenicol	16	4	1													3			1										
Cephalosporins - Cefotaxime	0.5	4	0							4																			
Fluoroquinolones - Ciprofloxacin	0.06	4	0			1			3																				
Penicillins - Ampicillin	8	4	0											3	1														
Quinolones - Nalidixic acid	16	4	0													4													
Sulfonamides	256	4	1																3							1			
Tetracyclines - Tetracycline	8	4	4																	4									
Trimethoprim	2	4	0										4																
Cephalosporins - Ceftazidim	2	4	0									4																	

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from sheep - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from sheep - at slaughterhouse - Surveillance	
	52	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Typhimurium		Meat from pig - at retail - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		117																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	9	0									1	7	1												
Aminoglycosides - Kanamycin		8	9	0													9										
Aminoglycosides - Streptomycin		32	9	9																	4	5					
Amphenicols - Chloramphenicol		16	9	4													2	3			4						
Amphenicols - Florfenicol		16	9	4												1	4				4						
Cephalosporins - Cefotaxime		0.5	9	0							7	2															
Fluoroquinolones - Ciprofloxacin		0.06	9	0			1			8																	
Penicillins - Ampicillin		8	9	9																9							
Quinolones - Nalidixic acid		16	9	0													9										
Sulfonamides		256	9	9																						9	
Tetracyclines - Tetracycline		8	9	9																3	6						
Trimethoprim		2	9	4										5						4							
Cephalosporins - Ceftazidim		2	9	0									9														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	117	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Enteritidis in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Enteritidis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Gallus gallus (fowl) - laying hens - at farm - Surveillance																									
		26																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0									1	1														
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	0												1	1											
Amphenicols - Chloramphenicol	16	2	0													2											
Amphenicols - Florfenicol	16	2	0													2											
Cephalosporins - Cefotaxime	0.5	2	0							1	1																
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1			1																		
Penicillins - Ampicillin	8	2	1												1				1								
Quinolones - Nalidixic acid	16	2	0													2											
Sulfonamides	256	2	0															1	1								
Tetracyclines - Tetracycline	8	2	0											1	1												
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Enteritidis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0															1									
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Livingstone* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. London in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. London	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. London* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. London Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - laying hens - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - laying hens - at farm - Surveillance - quantitative data
[Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kentucky in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																										
		91																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	7	0									1	6															
Aminoglycosides - Kanamycin	8	7	0													7												
Aminoglycosides - Streptomycin	32	7	0													1	4	1	1									
Amphenicols - Chloramphenicol	16	7	1												1	3	2			1								
Amphenicols - Florfenicol	16	7	0												2	4	1											
Cephalosporins - Cefotaxime	0.5	7	0							5	2																	
Fluoroquinolones - Ciprofloxacin	0.06	7	6						1			6																
Penicillins - Ampicillin	8	7	2											4	1				2									
Quinolones - Nalidixic acid	16	7	6													1				6								
Sulfonamides	256	7	2																3	2			1		1			
Tetracyclines - Tetracycline	8	7	2											4	1					2								
Trimethoprim	2	7	2										5				1		1									
Cephalosporins - Ceftazidim	2	7	0									6	1															

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	91	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Blockley in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Blockley	Turkeys - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	1																		1						
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1								1																
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Blockley* in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Agona	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	0													3												
Aminoglycosides - Streptomycin	32	3	0														1	1	1									
Amphenicols - Chloramphenicol	16	3	0														3											
Amphenicols - Florfenicol	16	3	0													2	1											
Cephalosporins - Cefotaxime	0.5	3	0								2	1																
Fluoroquinolones - Ciprofloxacin	0.06	3	0			1			1	1																		
Penicillins - Ampicillin	8	3	1											1	1				1									
Quinolones - Nalidixic acid	16	3	0													2	1											
Sulfonamides	256	3	1																2						1			
Tetracyclines - Tetracycline	8	3	1												2					1								
Trimethoprim	2	3	1										2						1									
Cephalosporins - Ceftazidim	2	3	0									1	2															

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kottbus in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kottbus	Turkeys - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0														1										
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Kottbus* in Turkey - at farm - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at slaughterhouse - Surveillance																									
	26																									
	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Antimicrobials:																										
Aminoglycosides - Gentamicin	2	2	1										1					1								
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	2																		2					
Amphenicols - Chloramphenicol	16	2	1														1			1						
Amphenicols - Florfenicol	16	2	1														1			1						
Cephalosporins - Cefotaxime	0.5	2	0								2															
Fluoroquinolones - Ciprofloxacin	0.06	2	0							2																
Penicillins - Ampicillin	8	2	2																2							
Quinolones - Nalidixic acid	16	2	0													1	1									
Sulfonamides	256	2	2																						2	
Tetracyclines - Tetracycline	8	2	2																	2						
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Pigs - at slaughterhouse - Surveillance	
	26	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Cattle (bovine animals) - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Cattle (bovine animals) - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0												1													
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Cattle (bovine animals) - at farm - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cattle (bovine animals) - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. enterica subsp. enterica in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. enterica subsp. enterica	Turkeys - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	1																		1						
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Pigs - at slaughterhouse - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Derby* in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Pigs - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Solipeds, domestic - at farm - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Solipeds, domestic - at farm - Surveillance																									
		Isolates out of a monitoring program (yes/no)																									
		Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Solipeds, domestic - at farm - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Solipeds, domestic - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Panama in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Panama	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Panama* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Panama Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Saintpaul	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	1															1										
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1													1												
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	1																1									
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Saintpaul* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Montevideo Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0													1													
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Montevideo Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Rabbits - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium			Rabbits - at farm - Surveillance																									
			Isolates out of a monitoring program (yes/no)																									
			Number of isolates available in the laboratory																									
Antimicrobials:			Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin			2	1	1																1							
Aminoglycosides - Kanamycin			8	1	0													1										
Aminoglycosides - Streptomycin			32	1	1																		1					
Amphenicols - Chloramphenicol			16	1	0													1										
Amphenicols - Florfenicol			16	1	0													1										
Cephalosporins - Cefotaxime			0.5	1	0							1																
Fluoroquinolones - Ciprofloxacin			0.06	1	0							1																
Penicillins - Ampicillin			8	1	0												1											
Quinolones - Nalidixic acid			16	1	0														1									
Sulfonamides			256	1	1																						1	
Tetracyclines - Tetracycline			8	1	1																		1					
Trimethoprim			2	1	0											1												
Cephalosporins - Ceftazidim			2	1	0									1														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Rabbits - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Rabbits - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Typhimurium		Gallus gallus (fowl) - broilers - at farm - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		26																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	2	0										2													
Aminoglycosides - Kanamycin		8	2	0													2										
Aminoglycosides - Streptomycin		32	2	2																	1	1					
Amphenicols - Chloramphenicol		16	2	2																	2						
Amphenicols - Florfenicol		16	2	2																2							
Cephalosporins - Cefotaxime		0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin		0.06	2	0						2																	
Penicillins - Ampicillin		8	2	2																2							
Quinolones - Nalidixic acid		16	2	0													2										
Sulfonamides		256	2	2																						2	
Tetracyclines - Tetracycline		8	2	2																2							
Trimethoprim		2	2	0										2													
Cephalosporins - Ceftazidim		2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Enteritidis	Gallus gallus (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0							1																		
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance - quantitative data [Dilution method]

S. Enteritidis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kottbus in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from turkey - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0									1																	
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	1																1										
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Kottbus* in Meat from turkey - at retail - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from turkey - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	1										3						1									
Aminoglycosides - Kanamycin	8	4	0													3	1											
Aminoglycosides - Streptomycin	32	4	1														2	1			1							
Amphenicols - Chloramphenicol	16	4	0													1	3											
Amphenicols - Florfenicol	16	4	0													2	2											
Cephalosporins - Cefotaxime	0.5	4	1								3					1												
Fluoroquinolones - Ciprofloxacin	0.06	4	1						3				1															
Penicillins - Ampicillin	8	4	1											1	2				1									
Quinolones - Nalidixic acid	16	4	1													2	1			1								
Sulfonamides	256	4	1																2	1					1			
Tetracyclines - Tetracycline	8	4	0												4													
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	1									1	2					1										

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Live bivalve molluscs - unspecified - at retail - Surveillance -
quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Live bivalve molluscs - unspecified - at retail - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Live bivalve molluscs - unspecified - at retail - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Live bivalve molluscs - unspecified - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. London in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. London Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Cattle (bovine animals) - at farm - Surveillance																									
		26																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	1										1						1								
Aminoglycosides - Kanamycin	8	2	0													1	1										
Aminoglycosides - Streptomycin	32	2	0														2										
Amphenicols - Chloramphenicol	16	2	0													2											
Amphenicols - Florfenicol	16	2	0													2											
Cephalosporins - Cefotaxime	0.5	2	0							2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	1						1				1														
Penicillins - Ampicillin	8	2	1											1					1								
Quinolones - Nalidixic acid	16	2	0													1		1									
Sulfonamides	256	2	1																1						1		
Tetracyclines - Tetracycline	8	2	1												1					1							
Trimethoprim	2	2	1										1						1								
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of S. London in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. London	Cattle (bovine animals) - at farm - Surveillance	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Live bivalve molluscs - unspecified - at retail - Surveillance - quantitative data
[Dilution method]

S. Typhimurium		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Live bivalve molluscs - unspecified - at retail - Surveillance																											
		Isolates out of a monitoring program (yes/no)																											
		Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0															1											
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Live bivalve molluscs - unspecified - at retail - Surveillance - quantitative data
[Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Live bivalve molluscs - unspecified - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0															2										
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0								2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1			1																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																	2								
Tetracyclines - Tetracycline	8	2	0												2													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0										2															

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Meat from pig - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Infantis* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenchen in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenchen	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Muenchen* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Isangi in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Isangi Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0														1												
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Isangi* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Isangi Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* in Meat from pig - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. enterica subsp. salamae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance																										
	26																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										1	1													
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	0														2										
Amphenicols - Chloramphenicol	16	2	0														2										
Amphenicols - Florfenicol	16	2	0													2											
Cephalosporins - Cefotaxime	0.5	2	0							1	1																
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																		
Penicillins - Ampicillin	8	2	0											2													
Quinolones - Nalidixic acid	16	2	0													2											
Sulfonamides	256	2	0															1	1								
Tetracyclines - Tetracycline	8	2	0												2												
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* in Meat from pig - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

<i>S. enterica</i> subsp. <i>salamae</i> Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kapemba in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kapemba	Meat from pig - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Kapemba* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Kapemba Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kentucky	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Blockley in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Blockley	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Livingstone* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Abortusovis in Sheep and goats - unspecified - Surveillance - quantitative data [Dilution method]

S. Abortusovis		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Sheep and goats - unspecified - Surveillance																											
		Isolates out of a monitoring program (yes/no)																											
Antimicrobials:		Number of isolates available in the laboratory																											
		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin		2	1	0								1																	
Aminoglycosides - Kanamycin		8	1	0												1													
Aminoglycosides - Streptomycin		32	1	0													1												
Amphenicols - Chloramphenicol		16	1	0											1														
Amphenicols - Florfenicol		16	1	0											1														
Cephalosporins - Cefotaxime		0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin		0.06	1	0			1																						
Penicillins - Ampicillin		8	1	0											1														
Quinolones - Nalidixic acid		16	1	0												1													
Sulfonamides		256	1	0													1												
Tetracyclines - Tetracycline		8	1	0											1														
Trimethoprim		2	1	0									1																
Cephalosporins - Ceftazidim		2	1	0								1																	

Table Antimicrobial susceptibility testing of S. Abortusovis in Sheep and goats - unspecified - Surveillance - quantitative data [Dilution method]

S. Abortusovis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kottbus in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at slaughterhouse - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0													1													
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Kottbus* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Agona		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Meat from pig - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. diarizonae	Meat from pig - at slaughterhouse - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Meat from pig - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. diarizonae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Choleraesuis in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Choleraesuis	Pigs - at farm - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	1										1				1									
Aminoglycosides - Kanamycin	8	2	1													1					1					
Aminoglycosides - Streptomycin	32	2	2																		2					
Amphenicols - Chloramphenicol	16	2	1													1				1						
Amphenicols - Florfenicol	16	2	0												1	1										
Cephalosporins - Cefotaxime	0.5	2	0								2															
Fluoroquinolones - Ciprofloxacin	0.06	2	2										2													
Penicillins - Ampicillin	8	2	2																2							
Quinolones - Nalidixic acid	16	2	2																	2						
Sulfonamides	256	2	2																						2	
Tetracyclines - Tetracycline	8	2	2																	2						
Trimethoprim	2	2	2																2							
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Choleraesuis* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Choleraesuis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Pigs - at farm - Surveillance	
	26	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Meat from pig - at slaughterhouse - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Derby* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. London in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. London	Meat from pig - at retail - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. London* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. London Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Thompson	Dogs - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Thompson* in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Dogs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenchen in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at retail - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of S. Muenchen in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Muenchen	Meat from pig - at retail - Surveillance	
Isolates out of a monitoring program (yes/no)		
Number of isolates available in the laboratory	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - broilers - unspecified - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Thompson	Gallus gallus (fowl) - broilers - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0														1										
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - broilers - unspecified - Surveillance - quantitative data
 [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Rissen	Meat from pig - at retail - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Antimicrobials:																										
Aminoglycosides - Gentamicin	2	2	1										1			1										
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	0														2									
Amphenicols - Chloramphenicol	16	2	0												1		1									
Amphenicols - Florfenicol	16	2	0													1	1									
Cephalosporins - Cefotaxime	0.5	2	0								1		1													
Fluoroquinolones - Ciprofloxacin	0.06	2	0			2																				
Penicillins - Ampicillin	8	2	0											2												
Quinolones - Nalidixic acid	16	2	0													1	1									
Sulfonamides	256	2	0																1	1						
Tetracyclines - Tetracycline	8	2	2																	2						
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Rissen* in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenster in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Muenster Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Meat from pig - at slaughterhouse - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Muenster* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Muenster Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance																										
	39																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	0										3														
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	1														2				1						
Amphenicols - Chloramphenicol	16	3	0													3											
Amphenicols - Florfenicol	16	3	0													3											
Cephalosporins - Cefotaxime	0.5	3	0							2	1																
Fluoroquinolones - Ciprofloxacin	0.06	3	0						3																		
Penicillins - Ampicillin	8	3	1											2					1								
Quinolones - Nalidixic acid	16	3	0													3											
Sulfonamides	256	3	1																1	1					1		
Tetracyclines - Tetracycline	8	3	2											1						2							
Trimethoprim	2	3	0										3														
Cephalosporins - Ceftazidim	2	3	0									3															

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Meat from pig - at retail - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at retail - Surveillance	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. enterica subsp. enterica in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Wild boars - unspecified - Surveillance																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0																1									
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																			1						
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Wild boars - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Senftenberg in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Senftenberg	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Senftenberg* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Senftenberg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Derby	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	5	0										5														
Aminoglycosides - Kanamycin	8	5	1													4					1						
Aminoglycosides - Streptomycin	32	5	3														2				3						
Amphenicols - Chloramphenicol	16	5	0													1	4										
Amphenicols - Florfenicol	16	5	0														5										
Cephalosporins - Cefotaxime	0.5	5	0								5																
Fluoroquinolones - Ciprofloxacin	0.06	5	0			1			4																		
Penicillins - Ampicillin	8	5	0											3	1		1										
Quinolones - Nalidixic acid	16	5	0													5											
Sulfonamides	256	5	3																	2					3		
Tetracyclines - Tetracycline	8	5	3												2					3							
Trimethoprim	2	5	0										5														
Cephalosporins - Ceftazidim	2	5	0										5														

Table Antimicrobial susceptibility testing of *S. Derby* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	65	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
Salmonella spp., unspecified	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	1													1				1							
Amphenicols - Chloramphenicol	16	2	0													1	1										
Amphenicols - Florfenicol	16	2	0												1	1											
Cephalosporins - Cefotaxime	0.5	2	0								2																
Fluoroquinolones - Ciprofloxacin	0.06	2	1						1			1															
Penicillins - Ampicillin	8	2	1											1					1								
Quinolones - Nalidixic acid	16	2	1													1				1							
Sulfonamides	256	2	0															1	1								
Tetracyclines - Tetracycline	8	2	1												1				1								
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0										2														

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. enterica subsp. salamae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Pigs - at farm - Surveillance																									
		13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0														1										
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

<i>S. enterica</i> subsp. <i>salamae</i> Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Veneziana in Cats - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Veneziana	Cats - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1								1																
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Veneziana* in Cats - unspecified - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cats - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Gallinarum biovar Pullorum in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Gallinarum biovar Pullorum	Gallus gallus (fowl) - laying hens - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									2																
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0															1	1									
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0														2											
Cephalosporins - Cefotaxime	0.5	2	0								2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	2											2														
Penicillins - Ampicillin	8	2	1														1		1									
Quinolones - Nalidixic acid	16	2	2																	2								
Sulfonamides	256	2	0																	1	1							
Tetracyclines - Tetracycline	8	2	1													1				1								
Trimethoprim	2	2	0											2														
Cephalosporins - Ceftazidim	2	2	0									1	1															

Table Antimicrobial susceptibility testing of *S. Gallinarum* biovar Pullorum in *Gallus gallus* (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Gallinarum biovar Pullorum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Water buffalos - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Water buffalos - unspecified - Surveillance																									
			13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0											1														
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																		1							
Amphenicols - Florfenicol	16	1	1																1									
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Water buffalos - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Water buffalos - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Wild boars - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Wild boars - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in *Gallus gallus* (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Gallus gallus (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in *Gallus gallus* (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - grandparent breeding flocks, unspecified - hatching eggs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - at hatchery - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - at hatchery - Surveillance																											
	Gallus gallus (fowl) - at hatchery - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	26																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0													1	1											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							1	1																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																2									
Tetracyclines - Tetracycline	8	2	0												2													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0										2															

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - at hatchery - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at hatchery - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - laying hens - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	0													3												
Aminoglycosides - Streptomycin	32	3	0													1	2											
Amphenicols - Chloramphenicol	16	3	0													2	1											
Amphenicols - Florfenicol	16	3	0													3												
Cephalosporins - Cefotaxime	0.5	3	0							2	1																	
Fluoroquinolones - Ciprofloxacin	0.06	3	0			1			2																			
Penicillins - Ampicillin	8	3	0										1	1	1													
Quinolones - Nalidixic acid	16	3	0													3												
Sulfonamides	256	3	0																3									
Tetracyclines - Tetracycline	8	3	0											1	2													
Trimethoprim	2	3	0										3															
Cephalosporins - Ceftazidim	2	3	0									2	1															

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - laying hens - at farm - Surveillance - quantitative data
[Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Surveillance	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Manhattan in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																		1								
Amphenicols - Chloramphenicol	16	1	1																	1									
Amphenicols - Florfenicol	16	1	1																	1									
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	1																						1				
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Manhattan* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																		1								
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Anatum in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Anatum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Anatum* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Anatum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kentucky in Pheasants - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kentucky	Pheasants - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1										1														
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	1																1								
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Kentucky* in Pheasants - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pheasants - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Blockley in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	1																		1								
Aminoglycosides - Streptomycin	32	1	0																1										
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																	
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	1																	1									
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Newport in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Newport	Turkeys - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Newport* in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Abortusovis in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Abortusovis	Sheep and goats - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	9	0									2	7														
Aminoglycosides - Kanamycin	8	9	0													9											
Aminoglycosides - Streptomycin	32	9	0														2	6	1								
Amphenicols - Chloramphenicol	16	9	0												7	1	1										
Amphenicols - Florfenicol	16	9	0												7	2											
Cephalosporins - Cefotaxime	0.5	9	0							1	8																
Fluoroquinolones - Ciprofloxacin	0.06	9	0			1			6	2																	
Penicillins - Ampicillin	8	9	0										1	8													
Quinolones - Nalidixic acid	16	9	0													9											
Sulfonamides	256	9	0														2	2	3	2							
Tetracyclines - Tetracycline	8	9	2											6	1			1		1							
Trimethoprim	2	9	0										7	2													
Cephalosporins - Ceftazidim	2	9	0									8	1														

Table Antimicrobial susceptibility testing of *S. Abortusovis* in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Abortusovis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at farm - Surveillance	
	117	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Thompson		Gallus gallus (fowl) - broilers - at farm - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		39																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	3	0										3													
Aminoglycosides - Kanamycin		8	3	0													3										
Aminoglycosides - Streptomycin		32	3	0														2	1								
Amphenicols - Chloramphenicol		16	3	0													1	2									
Amphenicols - Florfenicol		16	3	0													3										
Cephalosporins - Cefotaxime		0.5	3	0							1	2															
Fluoroquinolones - Ciprofloxacin		0.06	3	0						2	1																
Penicillins - Ampicillin		8	3	1											1	1				1							
Quinolones - Nalidixic acid		16	3	0													3										
Sulfonamides		256	3	1																2						1	
Tetracyclines - Tetracycline		8	3	1												2					1						
Trimethoprim		2	3	1										2						1							
Cephalosporins - Ceftazidim		2	3	0									2	1													

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
	Cattle (bovine animals) - at farm - Surveillance																										
	26																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	2																		2						
Amphenicols - Chloramphenicol	16	2	0													1		1									
Amphenicols - Florfenicol	16	2	0													1	1										
Cephalosporins - Cefotaxime	0.5	2	0							1	1																
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																		
Penicillins - Ampicillin	8	2	2																2								
Quinolones - Nalidixic acid	16	2	0													1		1									
Sulfonamides	256	2	2																						2		
Tetracyclines - Tetracycline	8	2	2																	2							
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									1	1														

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cattle (bovine animals) - at farm - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Birds - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Birds - unspecified - Surveillance																									
	26																									
	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Antimicrobials:																										
Aminoglycosides - Gentamicin	2	2	0										2													
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	2																		2					
Amphenicols - Chloramphenicol	16	2	0													1		1								
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																	
Penicillins - Ampicillin	8	2	0											1	1											
Quinolones - Nalidixic acid	16	2	0													2										
Sulfonamides	256	2	2																						2	
Tetracyclines - Tetracycline	8	2	2																	2						
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Birds - unspecified - Surveillance - quantitative data [Dilution method]

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Birds - unspecified - Surveillance	
	26	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Sheep and goats - unspecified - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. enterica subsp. diarizonae	Sheep and goats - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	0									2	1														
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	0															3									
Amphenicols - Chloramphenicol	16	3	0												1	2											
Amphenicols - Florfenicol	16	3	0												2	1											
Cephalosporins - Cefotaxime	0.5	3	0							3																	
Fluoroquinolones - Ciprofloxacin	0.06	3	0			2			1																		
Penicillins - Ampicillin	8	3	0										1	2													
Quinolones - Nalidixic acid	16	3	0													3											
Sulfonamides	256	3	0															2	1								
Tetracyclines - Tetracycline	8	3	0											3													
Trimethoprim	2	3	0										3														
Cephalosporins - Ceftazidim	2	3	0									3															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Sheep and goats - unspecified - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. diarizonae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - unspecified - Surveillance	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Alpine chamois - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Alpine chamois - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	1																	1								
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Alpine chamois - at farm - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Alpine chamois - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Coeln in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Coeln	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Coeln* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Coeln Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Cattle (bovine animals) - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Cattle (bovine animals) - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0									1	3															
Aminoglycosides - Kanamycin	8	4	0													4												
Aminoglycosides - Streptomycin	32	4	0													1	3											
Amphenicols - Chloramphenicol	16	4	0												2	1	1											
Amphenicols - Florfenicol	16	4	0												2	2												
Cephalosporins - Cefotaxime	0.5	4	0							4																		
Fluoroquinolones - Ciprofloxacin	0.06	4	0			2			2																			
Penicillins - Ampicillin	8	4	0										2	2														
Quinolones - Nalidixic acid	16	4	0													4												
Sulfonamides	256	4	0															2	1	1								
Tetracyclines - Tetracycline	8	4	0											3	1													
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									3	1															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Cattle (bovine animals) - at farm - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cattle (bovine animals) - at farm - Surveillance	
	52	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Water buffalos - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Rissen	Water buffalos - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	13																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Rissen* in Water buffalos - at farm - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Water buffalos - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Ducks - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Saintpaul	Ducks - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	1																		1						
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Saintpaul* in Ducks - at farm - Surveillance - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Ducks - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Umbilo in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Umbilo	Dogs - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Umbilo* in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

S. Umbilo Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Dogs - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Veneziana in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - broilers - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0									1																	
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0													1													
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Veneziana* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Cats - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Hadar	Cats - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																	1							
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Hadar* in Cats - unspecified - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cats - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Gallinarum biovar Pullorum in Gallus gallus (fowl) - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Gallinarum biovar Pullorum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Gallus gallus (fowl) - at farm - Surveillance																									
			13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0																1									
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1											1														
Penicillins - Ampicillin	8	1	0										1															
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0																			1						
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Gallinarum* biovar Pullorum in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data
[Dilution method]

S. Gallinarum biovar Pullorum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Pigeons - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Pigeons - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0														1										
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Pigeons - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigeons - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Cats - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Cats - unspecified - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0										2													
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	0														1	1								
Amphenicols - Chloramphenicol	16	2	0													2										
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1				1																
Penicillins - Ampicillin	8	2	0											2												
Quinolones - Nalidixic acid	16	2	0													2										
Sulfonamides	256	2	0														2									
Tetracyclines - Tetracycline	8	2	0											2												
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Cats - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cats - unspecified - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	39																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	1													2					1							
Aminoglycosides - Streptomycin	32	3	0														1	1	1									
Amphenicols - Chloramphenicol	16	3	0													2	1											
Amphenicols - Florfenicol	16	3	0													2	1											
Cephalosporins - Cefotaxime	0.5	3	0							1	2																	
Fluoroquinolones - Ciprofloxacin	0.06	3	1						2		1																	
Penicillins - Ampicillin	8	3	0											3														
Quinolones - Nalidixic acid	16	3	1													2				1								
Sulfonamides	256	3	0																2		1							
Tetracyclines - Tetracycline	8	3	2												1					2								
Trimethoprim	2	3	0										2	1														
Cephalosporins - Ceftazidim	2	3	0									1	2															

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Manhattan in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Sheep and goats - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0															1											
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Manhattan* in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Manhattan Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenchen in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Muenchen		Cattle (bovine animals) - at farm - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		13																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	1	1																1							
Aminoglycosides - Kanamycin		8	1	0														1									
Aminoglycosides - Streptomycin		32	1	1																		1					
Amphenicols - Chloramphenicol		16	1	1																	1						
Amphenicols - Florfenicol		16	1	1																	1						
Cephalosporins - Cefotaxime		0.5	1	0								1															
Fluoroquinolones - Ciprofloxacin		0.06	1	1										1													
Penicillins - Ampicillin		8	1	0												1											
Quinolones - Nalidixic acid		16	1	1																		1					
Sulfonamides		256	1	0																	1						
Tetracyclines - Tetracycline		8	1	1																		1					
Trimethoprim		2	1	0										1													
Cephalosporins - Ceftazidim		2	1	0									1														

Table Antimicrobial susceptibility testing of S. Muenchen in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cattle (bovine animals) - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Abony in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Abony	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0														1										
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Abony* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Abony Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kentucky in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kentucky	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									1	1															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0													1	1											
Amphenicols - Chloramphenicol	16	2	0													2												
Amphenicols - Florfenicol	16	2	0												1	1												
Cephalosporins - Cefotaxime	0.5	2	1							1						1												
Fluoroquinolones - Ciprofloxacin	0.06	2	2									2																
Penicillins - Ampicillin	8	2	2																2									
Quinolones - Nalidixic acid	16	2	2																	2								
Sulfonamides	256	2	0																	2								
Tetracyclines - Tetracycline	8	2	1											1						1								
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	1									1				1												

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Newport in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - broilers - at farm - Surveillance																											
		13																											
		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Antimicrobials:	2	1	0									1																	
Aminoglycosides - Gentamicin	8	1	0													1													
Aminoglycosides - Kanamycin	32	1	0													1													
Aminoglycosides - Streptomycin	16	1	0													1													
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	0.5	1	0								1																		
Cephalosporins - Cefotaxime	0.06	1	0						1																				
Fluoroquinolones - Ciprofloxacin	8	1	0										1																
Penicillins - Ampicillin	16	1	0												1														
Quinolones - Nalidixic acid	256	1	0																1										
Sulfonamides	8	1	0												1														
Tetracyclines - Tetracycline	2	1	0									1																	
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim																													

Table Antimicrobial susceptibility testing of *S. Newport* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Sheep and goats - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0														1												
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																							
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Agona* in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Agona	Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
	Gallus gallus (fowl) - laying hens - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
Antimicrobials:	Number of isolates available in the laboratory																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
	2	1	0										1														
	8	1	0													1											
	32	1	0														1										
	16	1	0														1										
	16	1	0													1											
	0.5	1	0								1																
	0.06	1	0			1																					
	8	1	0											1													
	16	1	0													1											
	256	1	0																1								
	8	1	0												1												
2	1	0										1															
2	1	0										1															

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Haifa* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Haifa	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	1																1									
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0							1																		
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0														1											
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Haifa* in *Gallus gallus* (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	0										3																
Aminoglycosides - Kanamycin	8	3	0													3													
Aminoglycosides - Streptomycin	32	3	0														3												
Amphenicols - Chloramphenicol	16	3	0													3													
Amphenicols - Florfenicol	16	3	0													3													
Cephalosporins - Cefotaxime	0.5	3	0							3																			
Fluoroquinolones - Ciprofloxacin	0.06	3	0						2	1																			
Penicillins - Ampicillin	8	3	0											3															
Quinolones - Nalidixic acid	16	3	0													2		1											
Sulfonamides	256	3	0															1	1	1									
Tetracyclines - Tetracycline	8	3	0											1	2														
Trimethoprim	2	3	0										3																
Cephalosporins - Ceftazidim	2	3	0									3																	

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Sheep and goats - at farm - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. diarizonae	Sheep and goats - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									1	1															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														1	1										
Amphenicols - Chloramphenicol	16	2	0												2													
Amphenicols - Florfenicol	16	2	0												1	1												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																1	1								
Tetracyclines - Tetracycline	8	2	0											2														
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *diarizonae* in Sheep and goats - at farm - Surveillance - quantitative data
[Dilution method]

S. enterica subsp. diarizonae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at farm - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Foxes - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Foxes - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																		1						
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Foxes - unspecified - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Foxes - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. enterica subsp. enterica in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Pigs - at farm - Surveillance																									
		13																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	1																	1							
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0												1												
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Coeln in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Coeln	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Coeln* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Coeln Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0													1													
Amphenicols - Chloramphenicol	16	1	0														1												
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																	
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	1																	1									
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0										1																

Table Antimicrobial susceptibility testing of *S. Derby* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Ducks - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
Salmonella spp., unspecified	Ducks - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Ducks - at farm - Surveillance - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Ducks - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Rissen	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	0										3														
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	0													1	1		1								
Amphenicols - Chloramphenicol	16	3	0														3										
Amphenicols - Florfenicol	16	3	0													2	1										
Cephalosporins - Cefotaxime	0.5	3	0							1	1	1															
Fluoroquinolones - Ciprofloxacin	0.06	3	0						2	1																	
Penicillins - Ampicillin	8	3	0											1	1	1											
Quinolones - Nalidixic acid	16	3	0													2		1									
Sulfonamides	256	3	1																1	1					1		
Tetracyclines - Tetracycline	8	3	1												1	1				1							
Trimethoprim	2	3	2										1			1			1								
Cephalosporins - Ceftazidim	2	3	0										2	1													

Table Antimicrobial susceptibility testing of *S. Rissen* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Veneziana in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Veneziana		Sheep and goats - at farm - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		13																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	1	0										1													
Aminoglycosides - Kanamycin		8	1	0													1										
Aminoglycosides - Streptomycin		32	1	0													1										
Amphenicols - Chloramphenicol		16	1	0													1										
Amphenicols - Florfenicol		16	1	0													1										
Cephalosporins - Cefotaxime		0.5	1	0							1																
Fluoroquinolones - Ciprofloxacin		0.06	1	0			1																				
Penicillins - Ampicillin		8	1	0											1												
Quinolones - Nalidixic acid		16	1	0													1										
Sulfonamides		256	1	0																1							
Tetracyclines - Tetracycline		8	1	0											1												
Trimethoprim		2	1	0										1													
Cephalosporins - Ceftazidim		2	1	0									1														

Table Antimicrobial susceptibility testing of *S. Veneziana* in Sheep and goats - at farm - Surveillance - quantitative data [Dilution method]

S. Veneziana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Gallus gallus (fowl) - broilers - at farm - Surveillance																									
		26																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0													2											
Aminoglycosides - Streptomycin	32	2	2																	2							
Amphenicols - Chloramphenicol	16	2	0														2										
Amphenicols - Florfenicol	16	2	0													1	1										
Cephalosporins - Cefotaxime	0.5	2	0							1	1																
Fluoroquinolones - Ciprofloxacin	0.06	2	2									1	1														
Penicillins - Ampicillin	8	2	2																2								
Quinolones - Nalidixic acid	16	2	2																	2							
Sulfonamides	256	2	0															1	1								
Tetracyclines - Tetracycline	8	2	2																	2							
Trimethoprim	2	2	0										1	1													
Cephalosporins - Ceftazidim	2	2	0										2														

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Hadar	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Gallus gallus (fowl) - broilers - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0														1											
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Infantis* in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kedougou in Pigs - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kedougou	Pigs - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0															1									
Amphenicols - Florfenicol	16	1	0														1										
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0							1																	
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0														1										
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Kedougou* in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Kedougou Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Typhimurium		Dogs - unspecified - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		26																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	2	0									1	1													
Aminoglycosides - Kanamycin		8	2	0													2										
Aminoglycosides - Streptomycin		32	2	1														1				1					
Amphenicols - Chloramphenicol		16	2	0													1		1								
Amphenicols - Florfenicol		16	2	0													1	1									
Cephalosporins - Cefotaxime		0.5	2	0								2															
Fluoroquinolones - Ciprofloxacin		0.06	2	1						1					1												
Penicillins - Ampicillin		8	2	2																2							
Quinolones - Nalidixic acid		16	2	1													1				1						
Sulfonamides		256	2	2																						2	
Tetracyclines - Tetracycline		8	2	2																	2						
Trimethoprim		2	2	1										1						1							
Cephalosporins - Ceftazidim		2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Dogs - unspecified - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Dogs - unspecified - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Sheep and goats - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																									
		Sheep and goats - at slaughterhouse - Surveillance																									
		52																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	4	0										4														
Aminoglycosides - Kanamycin	8	4	0													4											
Aminoglycosides - Streptomycin	32	4	0														3	1									
Amphenicols - Chloramphenicol	16	4	0													4											
Amphenicols - Florfenicol	16	4	0													4											
Cephalosporins - Cefotaxime	0.5	4	0							4																	
Fluoroquinolones - Ciprofloxacin	0.06	4	0			1			3																		
Penicillins - Ampicillin	8	4	0											4													
Quinolones - Nalidixic acid	16	4	0													4											
Sulfonamides	256	4	0																4								
Tetracyclines - Tetracycline	8	4	4																	4							
Trimethoprim	2	4	0										4														
Cephalosporins - Ceftazidim	2	4	0									4															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Sheep and goats - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Sheep and goats - at slaughterhouse - Surveillance	
	52	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Cattle (bovine animals) - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0									1	3															
Aminoglycosides - Kanamycin	8	4	0													3	1											
Aminoglycosides - Streptomycin	32	4	2													1	1			1	1							
Amphenicols - Chloramphenicol	16	4	2												1	1				2								
Amphenicols - Florfenicol	16	4	2												1	1				2								
Cephalosporins - Cefotaxime	0.5	4	0							2		2																
Fluoroquinolones - Ciprofloxacin	0.06	4	0						4																			
Penicillins - Ampicillin	8	4	2											1	1				2									
Quinolones - Nalidixic acid	16	4	0													4												
Sulfonamides	256	4	2															1	1						2			
Tetracyclines - Tetracycline	8	4	2											2					1	1								
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									2	2															

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Cattle (bovine animals) - at farm - Surveillance	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Enteritidis in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Enteritidis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0															1											
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0												1														
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0												1														
Trimethoprim	2	1	0											1															
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Enteritidis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Havana in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Havana	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	13																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
	Aminoglycosides - Gentamicin	2	1	0									1															
	Aminoglycosides - Kanamycin	8	1	0												1												
	Aminoglycosides - Streptomycin	32	1	0												1												
	Amphenicols - Chloramphenicol	16	1	0													1											
	Amphenicols - Florfenicol	16	1	0													1											
	Cephalosporins - Cefotaxime	0.5	1	0								1																
	Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
	Penicillins - Ampicillin	8	1	0											1													
	Quinolones - Nalidixic acid	16	1	0													1											
	Sulfonamides	256	1	0																1								
	Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Havana* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Havana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0										4															
Aminoglycosides - Kanamycin	8	4	0													4												
Aminoglycosides - Streptomycin	32	4	1														3			1								
Amphenicols - Chloramphenicol	16	4	0														3	1										
Amphenicols - Florfenicol	16	4	0													2	2											
Cephalosporins - Cefotaxime	0.5	4	0							2	2																	
Fluoroquinolones - Ciprofloxacin	0.06	4	0			1			3																			
Penicillins - Ampicillin	8	4	0											2		1	1											
Quinolones - Nalidixic acid	16	4	1													3			1									
Sulfonamides	256	4	1																	2	1					1		
Tetracyclines - Tetracycline	8	4	2											1	1				1	1								
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									1	3															

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Muenchen* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenchen	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0													2												
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																2									
Tetracyclines - Tetracycline	8	2	0											1	1													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Muenchen* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenchen in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenchen	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	91																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	7	0										7															
Aminoglycosides - Kanamycin	8	7	0													6	1											
Aminoglycosides - Streptomycin	32	7	0														7											
Amphenicols - Chloramphenicol	16	7	0													4	3											
Amphenicols - Florfenicol	16	7	0													7												
Cephalosporins - Cefotaxime	0.5	7	0							5	1	1																
Fluoroquinolones - Ciprofloxacin	0.06	7	0						6	1																		
Penicillins - Ampicillin	8	7	0											5	2													
Quinolones - Nalidixic acid	16	7	0													6	1											
Sulfonamides	256	7	0																5	2								
Tetracyclines - Tetracycline	8	7	0											2	5													
Trimethoprim	2	7	0										7															
Cephalosporins - Ceftazidim	2	7	0									6	1															

Table Antimicrobial susceptibility testing of *S. Muenchen* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	91	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Anatum* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Anatum	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																		1						
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Anatum* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Anatum	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Isangi in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Isangi	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0										4															
Aminoglycosides - Kanamycin	8	4	0													4												
Aminoglycosides - Streptomycin	32	4	0													1	3											
Amphenicols - Chloramphenicol	16	4	0														4											
Amphenicols - Florfenicol	16	4	0													4												
Cephalosporins - Cefotaxime	0.5	4	0							3	1																	
Fluoroquinolones - Ciprofloxacin	0.06	4	0						4																			
Penicillins - Ampicillin	8	4	0											4														
Quinolones - Nalidixic acid	16	4	0													4												
Sulfonamides	256	4	0																4									
Tetracyclines - Tetracycline	8	4	0												4													
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									3	1															

Table Antimicrobial susceptibility testing of *S. Isangi* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Isangi Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	52	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kentucky	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kentucky	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	19	0									11	7	1													
Aminoglycosides - Kanamycin	8	19	0													19											
Aminoglycosides - Streptomycin	32	19	1													1	15	2			1						
Amphenicols - Chloramphenicol	16	19	1													17	1			1							
Amphenicols - Florfenicol	16	19	0												4	14		1									
Cephalosporins - Cefotaxime	0.5	19	2							15	2					2											
Fluoroquinolones - Ciprofloxacin	0.06	19	18						1			18															
Penicillins - Ampicillin	8	19	12											5	2				12								
Quinolones - Nalidixic acid	16	19	18													1				18							
Sulfonamides	256	19	3																5	11					3		
Tetracyclines - Tetracycline	8	19	8											7	4					8							
Trimethoprim	2	19	2										17						2								
Cephalosporins - Ceftazidim	2	19	2									17						2									

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	247	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Agona	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										1	1														
Aminoglycosides - Kanamycin	8	2	1													1					1							
Aminoglycosides - Streptomycin	32	2	1														1				1							
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													1	1											
Cephalosporins - Cefotaxime	0.5	2	0								2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	1						1				1															
Penicillins - Ampicillin	8	2	2																2									
Quinolones - Nalidixic acid	16	2	1													1				1								
Sulfonamides	256	2	1																	1						1		
Tetracyclines - Tetracycline	8	2	1												1					1								
Trimethoprim	2	2	1										1						1									
Cephalosporins - Ceftazidim	2	2	0										2															

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Agona	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenster in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenster	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	13																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Muenster* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Muenster Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Senftenberg in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Senftenberg	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	13																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0											1														
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Senftenberg* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Senftenberg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	312																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	24	0									4	18	2														
Aminoglycosides - Kanamycin	8	24	0													23	1											
Aminoglycosides - Streptomycin	32	24	0												1	4	13	5	1									
Amphenicols - Chloramphenicol	16	24	1													7	16			1								
Amphenicols - Florfenicol	16	24	0													23	1											
Cephalosporins - Cefotaxime	0.5	24	0							21	3																	
Fluoroquinolones - Ciprofloxacin	0.06	24	2			7			15			2																
Penicillins - Ampicillin	8	24	1											22	1				1									
Quinolones - Nalidixic acid	16	24	2													21		1		2								
Sulfonamides	256	24	1															2	13	7	1					1		
Tetracyclines - Tetracycline	8	24	2											5	16	1				2								
Trimethoprim	2	24	1										23						1									
Cephalosporins - Ceftazidim	2	24	0									21	3															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	312	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Rissen	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0													2												
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							1	1																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0			2																						
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																	2								
Tetracyclines - Tetracycline	8	2	0												2													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									1	1															

Table Antimicrobial susceptibility testing of *S. Rissen* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Rissen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Virchow in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Virchow	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									1	1															
Aminoglycosides - Kanamycin	8	2	1													1					1							
Aminoglycosides - Streptomycin	32	2	1															1			1							
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							1	1																	
Fluoroquinolones - Ciprofloxacin	0.06	2	1						1			1																
Penicillins - Ampicillin	8	2	1											1					1									
Quinolones - Nalidixic acid	16	2	1													1				1								
Sulfonamides	256	2	1																1							1		
Tetracyclines - Tetracycline	8	2	1												1					1								
Trimethoprim	2	2	1										1						1									
Cephalosporins - Ceftazidim	2	2	0									1	1															

Table Antimicrobial susceptibility testing of *S. Virchow* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Virchow	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kedougou in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kedougou	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	13																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
	Aminoglycosides - Gentamicin	2	1	0										1														
	Aminoglycosides - Kanamycin	8	1	0												1												
	Aminoglycosides - Streptomycin	32	1	0													1											
	Amphenicols - Chloramphenicol	16	1	0													1											
	Amphenicols - Florfenicol	16	1	0												1												
	Cephalosporins - Cefotaxime	0.5	1	0							1																	
	Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
	Penicillins - Ampicillin	8	1	0											1													
	Quinolones - Nalidixic acid	16	1	0													1											
	Sulfonamides	256	1	0																	1							
	Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0											1														
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kedougou* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kedougou Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Montevideo	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Montevideo* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Montevideo	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Gallinarum biovar Pullorum in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Gallinarum biovar Pullorum	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0														1											
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1											1														
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	0																		1							
Tetracyclines - Tetracycline	8	1	0													1												
Trimethoprim	2	1	0											1														
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Gallinarum* biovar Pullorum in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Gallinarum biovar Pullorum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Heidelberg* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Heidelberg	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Heidelberg* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Heidelberg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	<i>Gallus gallus</i> (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.25	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	1																1								
Aminoglycosides - Kanamycin	8	1	1																		1						
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	1																	1							
Amphenicols - Florfenicol	16	1	1																	1							
Cephalosporins - Cefotaxime	0.5	1	0									1															
Fluoroquinolones - Ciprofloxacin	0.06	1	1											1													
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	1																1								
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *S. Typhimurium* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Typhimurium	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Turkeys - at farm - Control and eradication programmes - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory			Turkeys - at farm - Control and eradication programmes																								
			26																								
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0													1	1										
Aminoglycosides - Streptomycin	32	2	1																1		1						
Amphenicols - Chloramphenicol	16	2	1														1			1							
Amphenicols - Florfenicol	16	2	0													1		1									
Cephalosporins - Cefotaxime	0.5	2	1							1						1											
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																		
Penicillins - Ampicillin	8	2	1											1					1								
Quinolones - Nalidixic acid	16	2	0													2											
Sulfonamides	256	2	2																						2		
Tetracyclines - Tetracycline	8	2	2																	2							
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	1									1						1									

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Turkeys - at farm - Control and eradication programmes - quantitative data
[Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Enteritidis	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Enteritidis	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Havana* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Havana	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0										1															
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0														1											
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Havana* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Havana Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	13																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Antimicrobials:																											
Aminoglycosides - Gentamicin	2	1	0								1																
Aminoglycosides - Kanamycin	8	1	0												1												
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0												1												
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0						1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0										1														
Quinolones - Nalidixic acid	16	1	0												1												
Sulfonamides	256	1	0															1									
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0									1															
Cephalosporins - Ceftazidim	2	1	0								1																

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	104																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	8	0										8															
Aminoglycosides - Kanamycin	8	8	0													8												
Aminoglycosides - Streptomycin	32	8	0														5	3										
Amphenicols - Chloramphenicol	16	8	0													2	6											
Amphenicols - Florfenicol	16	8	0													5	3											
Cephalosporins - Cefotaxime	0.5	8	0							5	3																	
Fluoroquinolones - Ciprofloxacin	0.06	8	0						8																			
Penicillins - Ampicillin	8	8	0											8														
Quinolones - Nalidixic acid	16	8	0													8												
Sulfonamides	256	8	0																6	2								
Tetracyclines - Tetracycline	8	8	0											2	6													
Trimethoprim	2	8	0										8															
Cephalosporins - Ceftazidim	2	8	0									7	1															

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - broilers - at farm - Control and eradication programmes	
	104	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Livingstone	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0										4															
Aminoglycosides - Kanamycin	8	4	0													4												
Aminoglycosides - Streptomycin	32	4	0													1	2	1										
Amphenicols - Chloramphenicol	16	4	0													1	3											
Amphenicols - Florfenicol	16	4	0													4												
Cephalosporins - Cefotaxime	0.5	4	0							3	1																	
Fluoroquinolones - Ciprofloxacin	0.06	4	0			1			3																			
Penicillins - Ampicillin	8	4	0											3	1													
Quinolones - Nalidixic acid	16	4	0													4												
Sulfonamides	256	4	0																3	1								
Tetracyclines - Tetracycline	8	4	0												4													
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									2	2															

Table Antimicrobial susceptibility testing of *S. Livingstone* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. London in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. London	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	1																1									
Aminoglycosides - Kanamycin	8	1	0														1											
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1										1															
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	0														1											
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	1																1									
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. London* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. London	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	234																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	18	0										16	2														
Aminoglycosides - Kanamycin	8	18	1													17					1							
Aminoglycosides - Streptomycin	32	18	3														14	1			3							
Amphenicols - Chloramphenicol	16	18	0														18											
Amphenicols - Florfenicol	16	18	0													17	1											
Cephalosporins - Cefotaxime	0.5	18	1							9	8					1												
Fluoroquinolones - Ciprofloxacin	0.06	18	2			14			2			1	1															
Penicillins - Ampicillin	8	18	3											14	1				3									
Quinolones - Nalidixic acid	16	18	1													16	1			1								
Sulfonamides	256	18	2																2	13	1					2		
Tetracyclines - Tetracycline	8	18	1											4	13					1								
Trimethoprim	2	18	3										15						3									
Cephalosporins - Ceftazidim	2	18	0									8	9		1													

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	234	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Newport in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Turkeys - at farm - Control and eradication programmes																									
		78																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	6	0										6														
Aminoglycosides - Kanamycin	8	6	0													6											
Aminoglycosides - Streptomycin	32	6	0														5	1									
Amphenicols - Chloramphenicol	16	6	0													2	4										
Amphenicols - Florfenicol	16	6	0													6											
Cephalosporins - Cefotaxime	0.5	6	0							6																	
Fluoroquinolones - Ciprofloxacin	0.06	6	0			4			2																		
Penicillins - Ampicillin	8	6	6																6								
Quinolones - Nalidixic acid	16	6	0													6											
Sulfonamides	256	6	6																						6		
Tetracyclines - Tetracycline	8	6	6																	6							
Trimethoprim	2	6	6																6								
Cephalosporins - Ceftazidim	2	6	0									6															

Table Antimicrobial susceptibility testing of *S. Newport* in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	78	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Haifa in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Haifa	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0											1														
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0																1									
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	0															1										
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Haifa* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - broilers - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Haifa in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Haifa	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0															2										
Amphenicols - Chloramphenicol	16	2	0													2												
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1			1																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0															1		1								
Tetracyclines - Tetracycline	8	2	0											1	1													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Haifa* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	26	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Thompson	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	8	0									3	5															
Aminoglycosides - Kanamycin	8	8	1													7					1							
Aminoglycosides - Streptomycin	32	8	0														5	3										
Amphenicols - Chloramphenicol	16	8	0													4	4											
Amphenicols - Florfenicol	16	8	0													8												
Cephalosporins - Cefotaxime	0.5	8	1							6	1					1												
Fluoroquinolones - Ciprofloxacin	0.06	8	1			2			4	1		1																
Penicillins - Ampicillin	8	8	2											6					2									
Quinolones - Nalidixic acid	16	8	1													7				1								
Sulfonamides	256	8	2																6						2			
Tetracyclines - Tetracycline	8	8	1											1	6					1								
Trimethoprim	2	8	2										6						2									
Cephalosporins - Ceftazidim	2	8	0									6	1		1													

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes -
quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	104	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Thompson in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Thompson	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	130																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	10	0									2	8															
Aminoglycosides - Kanamycin	8	10	0													10												
Aminoglycosides - Streptomycin	32	10	0													1	8	1										
Amphenicols - Chloramphenicol	16	10	0													5	5											
Amphenicols - Florfenicol	16	10	0													10												
Cephalosporins - Cefotaxime	0.5	10	0							8	2																	
Fluoroquinolones - Ciprofloxacin	0.06	10	1			1			8			1																
Penicillins - Ampicillin	8	10	0											6	4													
Quinolones - Nalidixic acid	16	10	0													9	1											
Sulfonamides	256	10	0																5	5								
Tetracyclines - Tetracycline	8	10	0											3	6		1											
Trimethoprim	2	10	1										9			1												
Cephalosporins - Ceftazidim	2	10	0									10																

Table Antimicrobial susceptibility testing of *S. Thompson* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Thompson Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	130	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	39																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Antimicrobials:																												
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	0												3													
Aminoglycosides - Streptomycin	32	3	3																	3								
Amphenicols - Chloramphenicol	16	3	0												3													
Amphenicols - Florfenicol	16	3	0												3													
Cephalosporins - Cefotaxime	0.5	3	0							3																		
Fluoroquinolones - Ciprofloxacin	0.06	3	1			1			1		1																	
Penicillins - Ampicillin	8	3	3															3										
Quinolones - Nalidixic acid	16	3	1												2				1									
Sulfonamides	256	3	3																					3				
Tetracyclines - Tetracycline	8	3	3																3									
Trimethoprim	2	3	0										3															
Cephalosporins - Ceftazidim	2	3	0									3																

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. 4,5,12:i:-	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
Isolates out of a monitoring program (yes/no)		
Number of isolates available in the laboratory	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	0										3														
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	0													2	1										
Amphenicols - Chloramphenicol	16	3	0													1	2										
Amphenicols - Florfenicol	16	3	0													3											
Cephalosporins - Cefotaxime	0.5	3	0							3																	
Fluoroquinolones - Ciprofloxacin	0.06	3	0			2			1																		
Penicillins - Ampicillin	8	3	0											3													
Quinolones - Nalidixic acid	16	3	0													3											
Sulfonamides	256	3	0															2		1							
Tetracyclines - Tetracycline	8	3	0											2	1												
Trimethoprim	2	3	0										3														
Cephalosporins - Ceftazidim	2	3	0									2	1														

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Coeln in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Coeln	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	0													3												
Aminoglycosides - Streptomycin	32	3	0														3											
Amphenicols - Chloramphenicol	16	3	0													2	1											
Amphenicols - Florfenicol	16	3	0													3												
Cephalosporins - Cefotaxime	0.5	3	0							3																		
Fluoroquinolones - Ciprofloxacin	0.06	3	0						3																			
Penicillins - Ampicillin	8	3	0											1	2													
Quinolones - Nalidixic acid	16	3	0													3												
Sulfonamides	256	3	0																2	1								
Tetracyclines - Tetracycline	8	3	0												3													
Trimethoprim	2	3	0										3															
Cephalosporins - Ceftazidim	2	3	0									3																

Table Antimicrobial susceptibility testing of *S. Coeln* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Coeln Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	<i>Gallus gallus</i> (fowl) - laying hens - at farm - Control and eradication programmes	
	39	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Derby in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Turkeys - at farm - Control and eradication programmes																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	1										2						1										
Aminoglycosides - Kanamycin	8	3	1													2					1								
Aminoglycosides - Streptomycin	32	3	2													1					2								
Amphenicols - Chloramphenicol	16	3	2														1				2								
Amphenicols - Florfenicol	16	3	0													3													
Cephalosporins - Cefotaxime	0.5	3	1							1	1					1													
Fluoroquinolones - Ciprofloxacin	0.06	3	2						1			1		1															
Penicillins - Ampicillin	8	3	3																3										
Quinolones - Nalidixic acid	16	3	2													1					2								
Sulfonamides	256	3	3																							3			
Tetracyclines - Tetracycline	8	3	3																		3								
Trimethoprim	2	3	3																	3									
Cephalosporins - Ceftazidim	2	3	1										2					1											

Table Antimicrobial susceptibility testing of *S. Derby* in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	39	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Turkeys - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	65																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	5	0										4	1													
Aminoglycosides - Kanamycin	8	5	0													5											
Aminoglycosides - Streptomycin	32	5	5																		5						
Amphenicols - Chloramphenicol	16	5	2													1	2				2						
Amphenicols - Florfenicol	16	5	0													2	3										
Cephalosporins - Cefotaxime	0.5	5	0							3	2																
Fluoroquinolones - Ciprofloxacin	0.06	5	1			1			3			1															
Penicillins - Ampicillin	8	5	3											2					3								
Quinolones - Nalidixic acid	16	5	1													3	1			1							
Sulfonamides	256	5	5																						5		
Tetracyclines - Tetracycline	8	5	4											1						4							
Trimethoprim	2	5	2										3						2								
Cephalosporins - Ceftazidim	2	5	0									5															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	65	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0									1	3															
Aminoglycosides - Kanamycin	8	4	0													4												
Aminoglycosides - Streptomycin	32	4	0														3	1										
Amphenicols - Chloramphenicol	16	4	0														4											
Amphenicols - Florfenicol	16	4	0													4												
Cephalosporins - Cefotaxime	0.5	4	0							4																		
Fluoroquinolones - Ciprofloxacin	0.06	4	0						4																			
Penicillins - Ampicillin	8	4	0											4														
Quinolones - Nalidixic acid	16	4	0													4												
Sulfonamides	256	4	0																2	2								
Tetracyclines - Tetracycline	8	4	0											1	3													
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									3	1															

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

Salmonella spp., unspecified	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	78	
Aminoglycosides - Gentamicin	2	6	0									2	4															
Aminoglycosides - Kanamycin	8	6	0													6												
Aminoglycosides - Streptomycin	32	6	1														5				1							
Amphenicols - Chloramphenicol	16	6	0													3	3											
Amphenicols - Florfenicol	16	6	0													6												
Cephalosporins - Cefotaxime	0.5	6	0							5	1																	
Fluoroquinolones - Ciprofloxacin	0.06	6	0			3			3																			
Penicillins - Ampicillin	8	6	1											4	1				1									
Quinolones - Nalidixic acid	16	6	0													6												
Sulfonamides	256	6	1																3	2					1			
Tetracyclines - Tetracycline	8	6	1											2	3					1								
Trimethoprim	2	6	0										6															
Cephalosporins - Ceftazidim	2	6	0									4	2															

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	78	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Saintpaul	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Saintpaul* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Weltevreden in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Weltevreden	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0														1											
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Weltevreden* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Weltevreden Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Turkeys - at farm - Control and eradication programmes																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	1																	1									
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0												1														
Cephalosporins - Cefotaxime	0.5	1	0								1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																	
Penicillins - Ampicillin	8	1	1																1										
Quinolones - Nalidixic acid	16	1	1																	1									
Sulfonamides	256	1	0																1										
Tetracyclines - Tetracycline	8	1	1																	1									
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Hadar* in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Control and eradication programmes	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0									2																
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0								2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1			1																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																2									
Tetracyclines - Tetracycline	8	2	0											1	1													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									1	1															

Table Antimicrobial susceptibility testing of *S. Infantis* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	104																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	8	0									4	4															
Aminoglycosides - Kanamycin	8	8	0													8												
Aminoglycosides - Streptomycin	32	8	0														7	1										
Amphenicols - Chloramphenicol	16	8	0														8											
Amphenicols - Florfenicol	16	8	0													8												
Cephalosporins - Cefotaxime	0.5	8	0								8																	
Fluoroquinolones - Ciprofloxacin	0.06	8	2						5	1	1	1																
Penicillins - Ampicillin	8	8	0											6	2													
Quinolones - Nalidixic acid	16	8	3													5				3								
Sulfonamides	256	8	1																2	3	2				1			
Tetracyclines - Tetracycline	8	8	0											1	6	1												
Trimethoprim	2	8	0										8															
Cephalosporins - Ceftazidim	2	8	0									1	7															

Table Antimicrobial susceptibility testing of *S. Infantis* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	104	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kedougou in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kedougou	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0			1			1																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																1	1								
Tetracyclines - Tetracycline	8	2	0												2													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Kedougou* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kedougou Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Montevideo	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										1	1														
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0													1	1											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0			2																						
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0															1	1									
Tetracyclines - Tetracycline	8	2	0											2														
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Montevideo* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Montevideo	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Typhimurium	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	65																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	5	0										5															
Aminoglycosides - Kanamycin	8	5	0													2	3											
Aminoglycosides - Streptomycin	32	5	2																3		2							
Amphenicols - Chloramphenicol	16	5	3														2			3								
Amphenicols - Florfenicol	16	5	0													5												
Cephalosporins - Cefotaxime	0.5	5	0							1		4																
Fluoroquinolones - Ciprofloxacin	0.06	5	1						3	1		1																
Penicillins - Ampicillin	8	5	5																5									
Quinolones - Nalidixic acid	16	5	1													1	3			1								
Sulfonamides	256	5	5																							5		
Tetracyclines - Tetracycline	8	5	5																	5								
Trimethoprim	2	5	1										1		3				1									
Cephalosporins - Ceftazidim	2	5	0									5																

Table Antimicrobial susceptibility testing of *S. Typhimurium* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	65	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - broilers - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - broilers - at slaughterhouse - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Surveillance - quantitative data
[Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - broilers - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Muenchen in Dolphin - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Muenchen	Dolphin - unspecified - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0									1															
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0														1										
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Muenchen* in Dolphin - unspecified - Surveillance - quantitative data [Dilution method]

S. Muenchen Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Dolphin - unspecified - Surveillance	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Blockley* in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Blockley	Turkeys - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	10	2									1	6	1		1			1								
Aminoglycosides - Kanamycin	8	10	10																		10						
Aminoglycosides - Streptomycin	32	10	9																1	7	2						
Amphenicols - Chloramphenicol	16	10	0													8	2										
Amphenicols - Florfenicol	16	10	0												1	8	1										
Cephalosporins - Cefotaxime	0.5	10	0							8	2																
Fluoroquinolones - Ciprofloxacin	0.06	10	10								5	5															
Penicillins - Ampicillin	8	10	3										1	5	1				3								
Quinolones - Nalidixic acid	16	10	10																	10							
Sulfonamides	256	10	1														1	1		6	1				1		
Tetracyclines - Tetracycline	8	10	10																	10							
Trimethoprim	2	10	2										8			1		1									
Cephalosporins - Ceftazidim	2	10	0									8	2														

Table Antimicrobial susceptibility testing of *S. Blockley* in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	130	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Cerro in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Cerro	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0												2													
Amphenicols - Florfenicol	16	2	0												2													
Cephalosporins - Cefotaxime	0.5	2	1							1						1												
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	1											1					1									
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0																	1	1							
Tetracyclines - Tetracycline	8	2	0											2														
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	1									1						1										

Table Antimicrobial susceptibility testing of *S. Cerro* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Cerro Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.25	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Newport in Turkeys - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Newport	Turkeys - unspecified - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
	26																									
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0									2														
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	0															2								
Amphenicols - Chloramphenicol	16	2	0													2										
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							2																
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																	
Penicillins - Ampicillin	8	2	2																2							
Quinolones - Nalidixic acid	16	2	0														2									
Sulfonamides	256	2	2																						2	
Tetracyclines - Tetracycline	8	2	2																	2						
Trimethoprim	2	2	2																2							
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Newport* in Turkeys - unspecified - Surveillance - quantitative data [Dilution method]

S. Newport Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - unspecified - Surveillance	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Schwarzengrund in Turkeys - at farm - Control and eradication programmes - quantitative data
[Dilution method]

S. Schwarzengrund Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
		Turkeys - at farm - Control and eradication programmes																										
		52																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	4																4									
Aminoglycosides - Kanamycin	8	4	0													2	2											
Aminoglycosides - Streptomycin	32	4	4																	2	2							
Amphenicols - Chloramphenicol	16	4	0													4												
Amphenicols - Florfenicol	16	4	0												1	3												
Cephalosporins - Cefotaxime	0.5	4	0							4																		
Fluoroquinolones - Ciprofloxacin	0.06	4	0			4																						
Penicillins - Ampicillin	8	4	4																4									
Quinolones - Nalidixic acid	16	4	0													3	1											
Sulfonamides	256	4	1																3							1		
Tetracyclines - Tetracycline	8	4	4																	4								
Trimethoprim	2	4	0										4															
Cephalosporins - Ceftazidim	2	4	0									4																

Table Antimicrobial susceptibility testing of *S. Schwarzengrund* in Turkeys - at farm - Control and eradication programmes - quantitative data
[Dilution method]

S. Schwarzengrund Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Hadar	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	52																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	4	0									2	2															
Aminoglycosides - Kanamycin	8	4	1													3					1							
Aminoglycosides - Streptomycin	32	4	2														1		1	2								
Amphenicols - Chloramphenicol	16	4	0													3	1											
Amphenicols - Florfenicol	16	4	0													3	1											
Cephalosporins - Cefotaxime	0.5	4	1							3						1												
Fluoroquinolones - Ciprofloxacin	0.06	4	4									4																
Penicillins - Ampicillin	8	4	4																4									
Quinolones - Nalidixic acid	16	4	4																	4								
Sulfonamides	256	4	1															2	1							1		
Tetracyclines - Tetracycline	8	4	4																	4								
Trimethoprim	2	4	1										3						1									
Cephalosporins - Ceftazidim	2	4	1									2	1			1												

Table Antimicrobial susceptibility testing of *S. Hadar* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - broilers - at farm - Control and eradication programmes	
	52	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	208																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	16	1									5	10			1												
Aminoglycosides - Kanamycin	8	16	9													7					9							
Aminoglycosides - Streptomycin	32	16	2														9		5		2							
Amphenicols - Chloramphenicol	16	16	0													3	12	1										
Amphenicols - Florfenicol	16	16	0												1	3	12											
Cephalosporins - Cefotaxime	0.5	16	8							1	6	1				8												
Fluoroquinolones - Ciprofloxacin	0.06	16	14			1			1			14																
Penicillins - Ampicillin	8	16	12											3	1				12									
Quinolones - Nalidixic acid	16	16	14													2				14								
Sulfonamides	256	16	13															1	2							13		
Tetracyclines - Tetracycline	8	16	14												2					14								
Trimethoprim	2	16	11										5						11									
Cephalosporins - Ceftazidim	2	16	4									4	4		4	4												

Table Antimicrobial susceptibility testing of *S. Infantis* in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Infantis	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	208	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kedougou in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kedougou	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kedougou* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kedougou Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Corvallis* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Corvallis	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	2	2	0										2													
Aminoglycosides - Kanamycin	8	2	0													2										
Aminoglycosides - Streptomycin	32	2	0													2										
Amphenicols - Chloramphenicol	16	2	0													2										
Amphenicols - Florfenicol	16	2	0													2										
Cephalosporins - Cefotaxime	0.5	2	0							1	1															
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																	
Penicillins - Ampicillin	8	2	0											2												
Quinolones - Nalidixic acid	16	2	0													2										
Sulfonamides	256	2	0																1	1						
Tetracyclines - Tetracycline	8	2	0												2											
Trimethoprim	2	2	0										2													
Cephalosporins - Ceftazidim	2	2	0									2														

Table Antimicrobial susceptibility testing of *S. Corvallis* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Corvallis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	26	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Enteritidis in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Enteritidis	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	338																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	26	0									14	11	1														
Aminoglycosides - Kanamycin	8	26	0													26												
Aminoglycosides - Streptomycin	32	26	0												10	13	3											
Amphenicols - Chloramphenicol	16	26	0												1	20	4	1										
Amphenicols - Florfenicol	16	26	0												2	23	1											
Cephalosporins - Cefotaxime	0.5	26	0							22	4																	
Fluoroquinolones - Ciprofloxacin	0.06	26	4			4			17	1	4																	
Penicillins - Ampicillin	8	26	0											21	5													
Quinolones - Nalidixic acid	16	26	4													22				4								
Sulfonamides	256	26	0															3	20	3								
Tetracyclines - Tetracycline	8	26	1											9	16					1								
Trimethoprim	2	26	0										25	1														
Cephalosporins - Ceftazidim	2	26	0									25	1															

Table Antimicrobial susceptibility testing of *S. Enteritidis* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Enteritidis	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Give in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Give	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	0														2											
Amphenicols - Chloramphenicol	16	2	0													1	1											
Amphenicols - Florfenicol	16	2	0													2												
Cephalosporins - Cefotaxime	0.5	2	0							2																		
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																			
Penicillins - Ampicillin	8	2	0											2														
Quinolones - Nalidixic acid	16	2	0													2												
Sulfonamides	256	2	0															1	1									
Tetracyclines - Tetracycline	8	2	0											1	1													
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Give* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - laying hens - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Lexington in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Lexington	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0										1															
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Lexington* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Lexington Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Mbandaka	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	78																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	6	0										6															
Aminoglycosides - Kanamycin	8	6	0													6												
Aminoglycosides - Streptomycin	32	6	0													1	2	2	1									
Amphenicols - Chloramphenicol	16	6	0														6											
Amphenicols - Florfenicol	16	6	0													6												
Cephalosporins - Cefotaxime	0.5	6	0							1	5																	
Fluoroquinolones - Ciprofloxacin	0.06	6	0			3			3																			
Penicillins - Ampicillin	8	6	0											4	2													
Quinolones - Nalidixic acid	16	6	0													6												
Sulfonamides	256	6	0																2	3	1							
Tetracyclines - Tetracycline	8	6	3												2	1				3								
Trimethoprim	2	6	0										6															
Cephalosporins - Ceftazidim	2	6	0									1	5															

Table Antimicrobial susceptibility testing of *S. Mbandaka* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	78	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Anatum in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Anatum	Turkeys - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	1														1											
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	1																	1								
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1																
Penicillins - Ampicillin	8	1	1																1									
Quinolones - Nalidixic acid	16	1	1																	1								
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	1																1									
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Anatum* in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Anatum Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Control and eradication programmes	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bredeney in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Bredeney	Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
	Turkeys - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	1																1								
Aminoglycosides - Kanamycin	8	1	1																		1						
Aminoglycosides - Streptomycin	32	1	1																		1						
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	1																1								
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Bredeney* in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Control and eradication programmes	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Agona	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	39																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	3	1									1	1						1								
Aminoglycosides - Kanamycin	8	3	0													3											
Aminoglycosides - Streptomycin	32	3	1														2				1						
Amphenicols - Chloramphenicol	16	3	1														2			1							
Amphenicols - Florfenicol	16	3	0													3											
Cephalosporins - Cefotaxime	0.5	3	1								2					1											
Fluoroquinolones - Ciprofloxacin	0.06	3	1			2								1													
Penicillins - Ampicillin	8	3	1											2					1								
Quinolones - Nalidixic acid	16	3	1													1	1			1							
Sulfonamides	256	3	1																2						1		
Tetracyclines - Tetracycline	8	3	1												2					1							
Trimethoprim	2	3	1										2						1								
Cephalosporins - Ceftazidim	2	3	1									1	1					1									

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Agona	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Agona	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	78																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	6	0									4	2															
Aminoglycosides - Kanamycin	8	6	0													6												
Aminoglycosides - Streptomycin	32	6	0														6											
Amphenicols - Chloramphenicol	16	6	0														6											
Amphenicols - Florfenicol	16	6	0													6												
Cephalosporins - Cefotaxime	0.5	6	0							3	3																	
Fluoroquinolones - Ciprofloxacin	0.06	6	0			3			3																			
Penicillins - Ampicillin	8	6	1											5					1									
Quinolones - Nalidixic acid	16	6	0													6												
Sulfonamides	256	6	1																4	1						1		
Tetracyclines - Tetracycline	8	6	0											1	5													
Trimethoprim	2	6	1										5						1									
Cephalosporins - Ceftazidim	2	6	0									3	3															

Table Antimicrobial susceptibility testing of *S. Agona* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Agona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	78	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Kottbus* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kottbus	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0												1													
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0										1															
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0															1										
Tetracyclines - Tetracycline	8	1	0											1														
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kottbus* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kottbus	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Haifa in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Haifa	Turkeys - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	2																2									
Aminoglycosides - Kanamycin	8	2	0													2												
Aminoglycosides - Streptomycin	32	2	1													1					1							
Amphenicols - Chloramphenicol	16	2	0														2											
Amphenicols - Florfenicol	16	2	0														2											
Cephalosporins - Cefotaxime	0.5	2	0							1	1																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0							2																		
Penicillins - Ampicillin	8	2	1												1				1									
Quinolones - Nalidixic acid	16	2	0														2											
Sulfonamides	256	2	1															1							1			
Tetracyclines - Tetracycline	8	2	2																	2								
Trimethoprim	2	2	0										2															
Cephalosporins - Ceftazidim	2	2	0									2																

Table Antimicrobial susceptibility testing of *S. Haifa* in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Haifa Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Control and eradication programmes	
	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. 4,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																										
	26																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	0										2														
Aminoglycosides - Kanamycin	8	2	0												2												
Aminoglycosides - Streptomycin	32	2	1														1			1							
Amphenicols - Chloramphenicol	16	2	0												1	1											
Amphenicols - Florfenicol	16	2	0												2												
Cephalosporins - Cefotaxime	0.5	2	0							2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	0						2																		
Penicillins - Ampicillin	8	2	1											1				1									
Quinolones - Nalidixic acid	16	2	0												2												
Sulfonamides	256	2	1															1							1		
Tetracyclines - Tetracycline	8	2	1												1				1								
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. 4,12:i:-	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
Isolates out of a monitoring program (yes/no)		
Number of isolates available in the laboratory	26	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																										
	Turkeys - at farm - Control and eradication programmes																										
	52																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	4	1									1	2						1								
Aminoglycosides - Kanamycin	8	4	0													4											
Aminoglycosides - Streptomycin	32	4	1														2	1			1						
Amphenicols - Chloramphenicol	16	4	0													3	1										
Amphenicols - Florfenicol	16	4	0												1	3											
Cephalosporins - Cefotaxime	0.5	4	0							4																	
Fluoroquinolones - Ciprofloxacin	0.06	4	1						3			1															
Penicillins - Ampicillin	8	4	1											3					1								
Quinolones - Nalidixic acid	16	4	1													3				1							
Sulfonamides	256	4	1																1	2					1		
Tetracyclines - Tetracycline	8	4	4																	4							
Trimethoprim	2	4	0										4														
Cephalosporins - Ceftazidim	2	4	0									4															

Table Antimicrobial susceptibility testing of S. 4,5,12:i:- in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. 4,5,12:i:- Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkeys - at farm - Control and eradication programmes	
	52	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	3	0										3															
Aminoglycosides - Kanamycin	8	3	0													3												
Aminoglycosides - Streptomycin	32	3	0													2	1											
Amphenicols - Chloramphenicol	16	3	0													2	1											
Amphenicols - Florfenicol	16	3	0													3												
Cephalosporins - Cefotaxime	0.5	3	0							1	2																	
Fluoroquinolones - Ciprofloxacin	0.06	3	0			2			1																			
Penicillins - Ampicillin	8	3	1											2					1									
Quinolones - Nalidixic acid	16	3	0													3												
Sulfonamides	256	3	0																2	1								
Tetracyclines - Tetracycline	8	3	0											2	1													
Trimethoprim	2	3	0										3															
Cephalosporins - Ceftazidim	2	3	0									1	2															

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

<i>S. enterica</i> subsp. <i>enterica</i> Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	39	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - at farm - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified	Gallus gallus (fowl) - at farm - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0																1								
Amphenicols - Chloramphenicol	16	1	0														1										
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0								1																
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0										1														

Table Antimicrobial susceptibility testing of *Salmonella* spp., unspecified in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data
[Dilution method]

Salmonella spp., unspecified Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Rissen in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Rissen	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0															1										
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																	1								
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0										1															

Table Antimicrobial susceptibility testing of *S. Rissen* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Rissen	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	13	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Saintpaul in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
		Turkeys - at farm - Control and eradication programmes																											
		39																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	3	0									1	2																
Aminoglycosides - Kanamycin	8	3	0													3													
Aminoglycosides - Streptomycin	32	3	1															1	1	1									
Amphenicols - Chloramphenicol	16	3	0													1	1	1											
Amphenicols - Florfenicol	16	3	0													2		1											
Cephalosporins - Cefotaxime	0.5	3	0							2	1																		
Fluoroquinolones - Ciprofloxacin	0.06	3	0						2	1																			
Penicillins - Ampicillin	8	3	2											1					2										
Quinolones - Nalidixic acid	16	3	0													2	1												
Sulfonamides	256	3	3																							3			
Tetracyclines - Tetracycline	8	3	3																	3									
Trimethoprim	2	3	2										1						2										
Cephalosporins - Ceftazidim	2	3	0									3																	

Table Antimicrobial susceptibility testing of *S. Saintpaul* in Turkey - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turkey - at farm - Control and eradication programmes	
	39	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Veneziana* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Veneziana	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	0													1											
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	0																1								
Tetracyclines - Tetracycline	8	1	0											1													
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Veneziana* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Veneziana	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Virchow* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Virchow	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0														1											
Amphenicols - Chloramphenicol	16	1	0														1											
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																1									
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Virchow* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Virchow Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Infantis* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Infantis	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	26																											
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	≥4096	1024	2048		
Aminoglycosides - Gentamicin	2	2	0										2															
Aminoglycosides - Kanamycin	8	2	2																	2								
Aminoglycosides - Streptomycin	32	2	0																2									
Amphenicols - Chloramphenicol	16	2	0														1	1										
Amphenicols - Florfenicol	16	2	0														2											
Cephalosporins - Cefotaxime	0.5	2	0									2																
Fluoroquinolones - Ciprofloxacin	0.06	2	2									2																
Penicillins - Ampicillin	8	2	0												1	1												
Quinolones - Nalidixic acid	16	2	2																	2								
Sulfonamides	256	2	2																							2		
Tetracyclines - Tetracycline	8	2	2																	2								
Trimethoprim	2	2	2																2									
Cephalosporins - Ceftazidim	2	2	0										2															

Table Antimicrobial susceptibility testing of *S. Infantis* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Montevideo	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	65																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	5	0										5														
Aminoglycosides - Kanamycin	8	5	0													5											
Aminoglycosides - Streptomycin	32	5	0														4	1									
Amphenicols - Chloramphenicol	16	5	0													1	4										
Amphenicols - Florfenicol	16	5	0													5											
Cephalosporins - Cefotaxime	0.5	5	0							4	1																
Fluoroquinolones - Ciprofloxacin	0.06	5	0			1			4																		
Penicillins - Ampicillin	8	5	0											5													
Quinolones - Nalidixic acid	16	5	0													5											
Sulfonamides	256	5	0																4	1							
Tetracyclines - Tetracycline	8	5	1											1	3					1							
Trimethoprim	2	5	0										5														
Cephalosporins - Ceftazidim	2	5	0									4	1														

Table Antimicrobial susceptibility testing of *S. Montevideo* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Montevideo Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	65	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Choleraesuis in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Choleraesuis	Meat from pig - at slaughterhouse - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0												1													
Amphenicols - Florfenicol	16	1	0												1													
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Choleraesuis* in Meat from pig - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Choleraesuis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Meat from pig - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Blockley	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	1																	1							
Aminoglycosides - Streptomycin	32	1	1																1								
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0													1											
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	1									1															
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	1																	1							
Sulfonamides	256	1	0																	1							
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bredeney in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Bredeney	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																	1								
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0								1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Bredeney* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Bredeney in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Bredeney	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	1																		1							
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																		1							
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Bredeney* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Bredeney Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	<i>Gallus gallus</i> (fowl) - broilers - at farm - Control and eradication programmes	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Kottbus in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Kottbus	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0									1																
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	0													1												
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																						
Penicillins - Ampicillin	8	1	0											1														
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	0																		1							
Tetracyclines - Tetracycline	8	1	0												1													
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Kottbus* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Kottbus Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Corvallis in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Corvallis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - at farm - Surveillance																											
		13																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048			
Aminoglycosides - Gentamicin	2	1	0										1																
Aminoglycosides - Kanamycin	8	1	0													1													
Aminoglycosides - Streptomycin	32	1	0													1													
Amphenicols - Chloramphenicol	16	1	0													1													
Amphenicols - Florfenicol	16	1	0													1													
Cephalosporins - Cefotaxime	0.5	1	0							1																			
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																				
Penicillins - Ampicillin	8	1	0											1															
Quinolones - Nalidixic acid	16	1	0													1													
Sulfonamides	256	1	0																	1									
Tetracyclines - Tetracycline	8	1	0											1															
Trimethoprim	2	1	0										1																
Cephalosporins - Ceftazidim	2	1	0									1																	

Table Antimicrobial susceptibility testing of *S. Corvallis* in *Gallus gallus* (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Corvallis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - at farm - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Turtles - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. enterica subsp. enterica	Turtles - unspecified - Surveillance																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	1	0										1															
Aminoglycosides - Kanamycin	8	1	0													1												
Aminoglycosides - Streptomycin	32	1	1																		1							
Amphenicols - Chloramphenicol	16	1	0													1												
Amphenicols - Florfenicol	16	1	0													1												
Cephalosporins - Cefotaxime	0.5	1	0							1																		
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																			
Penicillins - Ampicillin	8	1	0												1													
Quinolones - Nalidixic acid	16	1	0													1												
Sulfonamides	256	1	1																						1			
Tetracyclines - Tetracycline	8	1	1																	1								
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *enterica* in Turtles - unspecified - Surveillance - quantitative data [Dilution method]

S. enterica subsp. enterica Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Turtles - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Choleraesuis in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
S. Choleraesuis		Wild boars - unspecified - Surveillance																									
		Isolates out of a monitoring program (yes/no)																									
		Number of isolates available in the laboratory																									
Antimicrobials:		Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		2	1	0										1													
Aminoglycosides - Kanamycin		8	1	1																	1						
Aminoglycosides - Streptomycin		32	1	1																	1						
Amphenicols - Chloramphenicol		16	1	0													1										
Amphenicols - Florfenicol		16	1	0													1										
Cephalosporins - Cefotaxime		0.5	1	0								1															
Fluoroquinolones - Ciprofloxacin		0.06	1	0						1																	
Penicillins - Ampicillin		8	1	0											1												
Quinolones - Nalidixic acid		16	1	0													1										
Sulfonamides		256	1	1																						1	
Tetracyclines - Tetracycline		8	1	1																	1						
Trimethoprim		2	1	0										1													
Cephalosporins - Ceftazidim		2	1	0									1														

Table Antimicrobial susceptibility testing of *S. Choleraesuis* in Wild boars - unspecified - Surveillance - quantitative data [Dilution method]

S. Choleraesuis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Wild boars - unspecified - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Blockley	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	2	1											1		1											
Aminoglycosides - Kanamycin	8	2	2																		2						
Aminoglycosides - Streptomycin	32	2	2																	2							
Amphenicols - Chloramphenicol	16	2	0													2											
Amphenicols - Florfenicol	16	2	0													2											
Cephalosporins - Cefotaxime	0.5	2	0							2																	
Fluoroquinolones - Ciprofloxacin	0.06	2	2									2															
Penicillins - Ampicillin	8	2	0											2													
Quinolones - Nalidixic acid	16	2	2																	2							
Sulfonamides	256	2	1																	1					1		
Tetracyclines - Tetracycline	8	2	2																	2							
Trimethoprim	2	2	0										2														
Cephalosporins - Ceftazidim	2	2	0									2															

Table Antimicrobial susceptibility testing of *S. Blockley* in *Gallus gallus* (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Blockley Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	
	26	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of *S. Choleraesuis* in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Choleraesuis	Pigs - at slaughterhouse - Surveillance																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	13																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	1	0										1														
Aminoglycosides - Kanamycin	8	1	0													1											
Aminoglycosides - Streptomycin	32	1	1																	1							
Amphenicols - Chloramphenicol	16	1	0													1											
Amphenicols - Florfenicol	16	1	0												1												
Cephalosporins - Cefotaxime	0.5	1	0							1																	
Fluoroquinolones - Ciprofloxacin	0.06	1	0						1																		
Penicillins - Ampicillin	8	1	0											1													
Quinolones - Nalidixic acid	16	1	0													1											
Sulfonamides	256	1	1																						1		
Tetracyclines - Tetracycline	8	1	1																	1							
Trimethoprim	2	1	0										1														
Cephalosporins - Ceftazidim	2	1	0									1															

Table Antimicrobial susceptibility testing of *S. Choleraesuis* in Pigs - at slaughterhouse - Surveillance - quantitative data [Dilution method]

S. Choleraesuis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Pigs - at slaughterhouse - Surveillance	
	13	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

Table Antimicrobial susceptibility testing of S. Toulon in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

S. Toulon	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
Antimicrobials:	13																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
	Aminoglycosides - Gentamicin	2	1	0									1															
	Aminoglycosides - Kanamycin	8	1	0												1												
	Aminoglycosides - Streptomycin	32	1	0												1												
	Amphenicols - Chloramphenicol	16	1	0												1												
	Amphenicols - Florfenicol	16	1	0												1												
	Cephalosporins - Cefotaxime	0.5	1	0							1																	
	Fluoroquinolones - Ciprofloxacin	0.06	1	0			1																					
	Penicillins - Ampicillin	8	1	0											1													
	Quinolones - Nalidixic acid	16	1	0												1												
	Sulfonamides	256	1	0																	1							
	Tetracyclines - Tetracycline	8	1	0												1												
Trimethoprim	2	1	0										1															
Cephalosporins - Ceftazidim	2	1	0									1																

Table Antimicrobial susceptibility testing of *S. Toulon* in *Gallus gallus* (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Toulon Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	
	13	
	lowest	highest
Aminoglycosides - Gentamicin	0.25	32
Aminoglycosides - Kanamycin	4	128
Aminoglycosides - Streptomycin	2	128
Amphenicols - Chloramphenicol	2	64
Amphenicols - Florfenicol	2	64
Cephalosporins - Cefotaxime	0.06	4
Fluoroquinolones - Ciprofloxacin	0.008	8
Penicillins - Ampicillin	0.5	32
Quinolones - Nalidixic acid	4	64
Sulfonamides	8	1024
Tetracyclines - Tetracycline	1	64
Trimethoprim	0.5	32
Cephalosporins - Ceftazidim	0.25	16

2.2 CAMPYLOBACTERIOSIS

2.2.1 General evaluation of the national situation

A. Thermophilic Campylobacter general evaluation

History of the disease and/or infection in the country

In Italy there are no official data on the incidence of Campylobacter infection, because the Italian reporting system on human infectious diseases does not distinguish the gastroenteritis caused by Campylobacter from those due to other agents, listed in the national legislation. No structured national programmes for monitoring the contamination in food and animals are in place, the only survey on the level of contamination in slaughtered broilers has been conducted in accordance with baseline study 2008.

National evaluation of the recent situation, the trends and sources of infection

As for the last years, the number of samples are very poor and not regulated by specific and harmonized plans, and for this motive therefore cannot be representative of the national situation. 4794 samples from animals were examined, with prevalence for Campylobacter spp. of 13.5%. From the few chickens examined, contamination was detected by 30.3%; contamination in cattle's samples was 0.98% (11/1117). High positivity was obtained from samples of wild, mostly wild birds (22.9%). The prevalence in food samples examined was 0.5%, with greater contamination of milk and milk derivatives (0.2%), meat products (0.4%). The majority of Campylobacter spp. isolates were not identified to the species level.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

As for the last years, the number of samples are very poor and not regulated by specific and harmonized plans, and for this motive therefore cannot be representative of the national situation. 4794 samples from animals were examined, with prevalence for Campylobacter spp. of 13.5%. From the few chickens examined, contamination was detected by 30.3%; contamination in cattle's samples was 0.98% (11/1117). High positivity was obtained from samples of wild, mostly wild birds (22.9%). The prevalence in food samples examined was 0.5%, with greater contamination of milk and milk derivatives (0.2%), meat products (0.4%). The majority of Campylobacter spp. isolates were not identified to the species level.

Recent actions taken to control the zoonoses

There is no action taken in Italy for the control of this zoonosis.

Suggestions to the European Union for the actions to be taken

Monitoring plan in the countries to study the prevalence of Campylobacter in food (milk and milk products, fresh meat etc.)

2.2.2 Campylobacter in foodstuffs

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Cheeses made from cows' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	8	0		
Cheeses made from cows' milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	17	0		
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	118	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	25	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	60	0		
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	52	0		
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	92	0		
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	34	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Egg products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	33	0		
Meat from bovine animals - offal - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from horse - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	16	5		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	1	1	
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	34	0		
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - meat preparation - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	1		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	34	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	23	1		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	49	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	49	1	1	
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0		
Meat from other animal species or not specified - offal - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from other animal species or not specified - offal - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	16	9	2	2
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	15	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	2		
Meat from other animal species or not specified - offal - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	1		
Meat from pig - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from pig - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	30	1	1	
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	21	0		
Meat from pig - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	73	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	45	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	68	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	20	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from pig - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from rabbit - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from rabbit - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from sheep - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from sheep - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from wild boar - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Meat from wild boar - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0		
Meat from wild boar - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	34	0		
Meat from wild game - land mammals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	40	0		
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	3	0		
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1416	3		3

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Milk from other animal species or unspecified - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	36	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	237	1		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	27	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	45	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	339	0		
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	22	0		
Milk from other animal species or unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Milk, cows' - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Census	Official sampling	animal sample	Domestic	Single	25 Gram	25	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	17	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Milk, cows' - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0		
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	42	1		
Milk, cows' - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Milk, goats' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - pasta - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	35	0		
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	14	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	30	0		
Sauce and dressings - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Sweets - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
All foodstuffs - at retail - Surveillance				
Bakery products - pastry - at processing plant - Surveillance				
Bakery products - pastry - at retail - Surveillance				
Cheeses made from cows' milk - at processing plant - Surveillance				
Cheeses made from cows' milk - at retail - Surveillance				
Cheeses made from cows' milk - fresh - at processing plant - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Cheeses made from cows' milk - fresh - at retail - Surveillance				
Cheeses made from cows' milk - hard - at processing plant - Surveillance				
Cheeses made from cows' milk - hard - at processing plant - Surveillance				
Cheeses made from cows' milk - hard - at processing plant - Unspecified				
Cheeses made from cows' milk - hard - at retail - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified				
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance				
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified				
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance				
Crustaceans - at retail - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Dairy products (excluding cheeses) - at processing plant - Surveillance				
Dairy products (excluding cheeses) - at retail - Surveillance				
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance				
Dairy products, unspecified - at processing plant - Surveillance				
Dairy products, unspecified - at processing plant - Unspecified				
Egg products - at catering - Surveillance				
Fats and oils (excluding butter) - fats - at processing plant - Surveillance				
Fish - at retail - Surveillance				
Fishery products, unspecified - at retail - Surveillance				
Meat from bovine animals - fresh - at catering - Surveillance				
Meat from bovine animals - fresh - at processing plant - Surveillance				
Meat from bovine animals - fresh - at processing plant - Surveillance				
Meat from bovine animals - fresh - at retail - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Meat from bovine animals - meat products - at catering - Surveillance				
Meat from bovine animals - meat products - at processing plant - Surveillance				
Meat from bovine animals - meat products - at retail - Surveillance				
Meat from bovine animals - minced meat - at processing plant - Surveillance				
Meat from bovine animals - minced meat - at processing plant - Surveillance				
Meat from bovine animals - minced meat - at retail - Surveillance				
Meat from bovine animals - offal - at catering - Surveillance				
Meat from bovine animals - offal - at processing plant - Surveillance				
Meat from bovine animals - offal - at retail - Surveillance				
Meat from bovine animals - offal - at slaughterhouse - Surveillance				
Meat from deer (venison) - fresh - at processing plant - Surveillance				
Meat from horse - minced meat - at retail - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified	Campylobact er spp., unspecified
Meat from other animal species or not specified - carcase - at slaughterhouse - Surveillance				
Meat from other animal species or not specified - fresh - at catering - Unspecified				5
Meat from other animal species or not specified - fresh - at processing plant - Surveillance				
Meat from other animal species or not specified - fresh - at processing plant - Surveillance				
Meat from other animal species or not specified - fresh - at processing plant - Unspecified				
Meat from other animal species or not specified - fresh - at retail - Surveillance				
Meat from other animal species or not specified - fresh - at retail - Survey - national survey				
Meat from other animal species or not specified - fresh - at slaughterhouse - Surveillance				
Meat from other animal species or not specified - meat preparation - at catering - Surveillance				
Meat from other animal species or not specified - meat preparation - at catering - Unspecified				1
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance				
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Meat from other animal species or not specified - meat preparation - at retail - Surveillance				1
Meat from other animal species or not specified - meat products - at catering - Surveillance				
Meat from other animal species or not specified - meat products - at processing plant - Surveillance				
Meat from other animal species or not specified - meat products - at processing plant - Surveillance				
Meat from other animal species or not specified - meat products - at processing plant - Unspecified				
Meat from other animal species or not specified - meat products - at retail - Surveillance				
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance				
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance				
Meat from other animal species or not specified - minced meat - at retail - Surveillance				
Meat from other animal species or not specified - offal - at catering - Surveillance				
Meat from other animal species or not specified - offal - at catering - Unspecified				5

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Meat from other animal species or not specified - offal - at processing plant - Surveillance				
Meat from other animal species or not specified - offal - at processing plant - Surveillance				
Meat from other animal species or not specified - offal - at retail - Surveillance				2
Meat from other animal species or not specified - offal - at retail - Unspecified				1
Meat from pig - carcase - at slaughterhouse - Surveillance				
Meat from pig - fresh - at catering - Surveillance				
Meat from pig - fresh - at processing plant - Surveillance				
Meat from pig - fresh - at processing plant - Surveillance				
Meat from pig - fresh - at processing plant - Unspecified				
Meat from pig - fresh - at retail - Surveillance				
Meat from pig - meat preparation - at processing plant - Surveillance				
Meat from pig - meat preparation - at retail - Surveillance				
Meat from pig - meat products - at catering - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Meat from pig - meat products - at processing plant - Surveillance				
Meat from pig - meat products - at processing plant - Surveillance				
Meat from pig - meat products - at retail - Surveillance				
Meat from pig - minced meat - at processing plant - Surveillance				
Meat from pig - minced meat - at processing plant - Surveillance				
Meat from pig - minced meat - at retail - Surveillance				
Meat from pig - offal - at processing plant - Surveillance				
Meat from rabbit - carcass - at slaughterhouse - Surveillance				
Meat from rabbit - offal - at retail - Surveillance				
Meat from sheep - carcass - at slaughterhouse - Surveillance				
Meat from sheep - fresh - at processing plant - Surveillance				
Meat from sheep - fresh - at retail - Surveillance				
Meat from wild boar - fresh - at catering - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Meat from wild boar - fresh - at processing plant - Surveillance				
Meat from wild boar - fresh - at retail - Surveillance				
Meat from wild game - land mammals - fresh - at retail - Surveillance				
Milk from other animal species or unspecified - at farm - Surveillance				
Milk from other animal species or unspecified - at farm - Surveillance				
Milk from other animal species or unspecified - at farm - Survey - national survey				
Milk from other animal species or unspecified - at processing plant - Surveillance				1
Milk from other animal species or unspecified - at processing plant - Surveillance				
Milk from other animal species or unspecified - at processing plant - Surveillance				
Milk from other animal species or unspecified - at processing plant - Unspecified				
Milk from other animal species or unspecified - at retail - Surveillance				
Milk from other animal species or unspecified - at retail - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Milk from other animal species or unspecified - at retail - Surveillance				
Milk from other animal species or unspecified - at retail - Survey - national survey				
Milk from other animal species or unspecified - at retail - Unspecified				
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance				
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance				
Milk, cows' - at catering - Surveillance				
Milk, cows' - at farm - Surveillance				
Milk, cows' - at farm - Surveillance				
Milk, cows' - at processing plant - Surveillance				
Milk, cows' - at processing plant - Surveillance				
Milk, cows' - at processing plant - Unspecified				
Milk, cows' - at retail - Surveillance				1
Milk, cows' - at retail - Survey - national survey				
Milk, goats' - at farm - Surveillance				
Milk, sheep's - at processing plant - Surveillance				

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	Campylobacter spp., unspecified
Milk, sheep's - at processing plant - Surveillance				
Other processed food products and prepared dishes - pasta - at retail - Surveillance				
Other processed food products and prepared dishes - unspecified - at catering - Surveillance				
Other processed food products and prepared dishes - unspecified - at catering - Unspecified				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at retail - Surveillance				
Sauce and dressings - at catering - Surveillance				
Sweets - at processing plant - Surveillance				
Vegetables - at retail - Surveillance				

Table Campylobacter in poultry meat

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	28	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	554	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Meat from poultry, unspecified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Campylobacter in poultry meat

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from poultry, unspecified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	10	0		
Meat from poultry, unspecified - offal - liver - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	530	0		
Meat from poultry, unspecified - offal - liver - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from turkey - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from turkey - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from turkey - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Meat from turkey - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		

Table Campylobacter in poultry meat

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance			
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance			
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance			
Meat from poultry, unspecified - fresh - at processing plant - Surveillance			
Meat from poultry, unspecified - fresh - at processing plant - Surveillance			
Meat from poultry, unspecified - fresh - at retail - Surveillance			
Meat from poultry, unspecified - fresh - at retail - Surveillance			
Meat from poultry, unspecified - meat preparation - at catering - Surveillance			
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance			
Meat from poultry, unspecified - meat preparation - at retail - Surveillance			
Meat from poultry, unspecified - meat products - at processing plant - Surveillance			
Meat from poultry, unspecified - meat products - at retail - Surveillance			

Table Campylobacter in poultry meat

	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Meat from poultry, unspecified - minced meat - at retail - Surveillance			
Meat from poultry, unspecified - offal - at processing plant - Surveillance			
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance			
Meat from poultry, unspecified - offal - liver - at processing plant - Surveillance			
Meat from poultry, unspecified - offal - liver - at retail - Surveillance			
Meat from turkey - fresh - at processing plant - Surveillance			
Meat from turkey - fresh - at processing plant - Surveillance			
Meat from turkey - meat preparation - at retail - Surveillance			
Meat from turkey - meat products - at processing plant - Surveillance			
Meat from turkey - meat products - at retail - Surveillance			
Meat from turkey - minced meat - at processing plant - Surveillance			
Meat from turkey - minced meat - at retail - Surveillance			

Table Campylobacter in poultry meat

2.2.3 Campylobacter in animals

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	2	1		1	
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	25	0			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Suspect sampling	Official sampling	animal sample	Domestic	Animal	38	2			
Badgers - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Bears - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Birds - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Birds - wild - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	20	0			
Birds - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	336	78			
Birds - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	66	8			
Canary - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	50	0			
Cantabrian chamois - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Cats - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	18	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	29	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	18	1			
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1102	10	6	1	
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	4	0			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	712	6			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	328	0			
Cattle (bovine animals) - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	11	0			
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	6	1			
Cattle (bovine animals) - breeding bulls - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	4	0			
Cattle (bovine animals) - breeding bulls - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	253	3			
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	5	0			
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	5	2		2	
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Census	Official sampling	environmental sample	Domestic	herd/flock	2	0			
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Census	Official sampling	environmental sample	Domestic	Holding	2	0			
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	9	2		2	
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Deer - wild - roe deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	44	0			
Deer - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	7	0			
Dogs - pet animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	0			
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	27	0			
Dogs - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	2			
Dogs - pet animals - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	3	0			
Ducks - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Falcons - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Foxes - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	117	0			
Gallus gallus (fowl) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	3	0			
Gallus gallus (fowl) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	57	18			
Gallus gallus (fowl) - broilers - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	10	6	1	2	
Gallus gallus (fowl) - broilers - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	4			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	5	3	1	
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	15	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	5	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	56	0			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	1	0			
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	27	0			
Gulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Gulls - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	16	6			
Monkeys - zoo animal - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Monkeys - zoo animal - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0			
Other animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Other animals - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	2	0			
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	56	10			
Other animals - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	4	0			
Parrots - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	12	0			
Partridges - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Pigeons - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	40	8		8	

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Pigeons - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	11	0			
Pigeons - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	6	1	1		
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Pigs - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0			
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0			
Poultry, unspecified - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Poultry, unspecified - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	4	2			
Poultry, unspecified - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	1			
Poultry, unspecified - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	1			
Quails - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Animal	1	0			
Rabbits - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	228	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	39	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	6	0			
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	4	0			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0			
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	22	12			
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	21	0			
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	31	0			
Sheep and goats - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	2	0			
Solipeds, domestic - donkeys - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	7	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Turkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Turkeys - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	1			
Turtles - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	13	2		2	
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Water buffalos - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			

Table Campylobacter in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni	C. lari
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	216	6			
Wild animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Wild animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	30	2			
Wild animals - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	232	64			
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	40	2			
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	18	0			
Wild boars - wild - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	10	0			
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	196	0			

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Cattle (bovine animals) - dairy cows - at farm - Monitoring				
Sheep - at farm - Monitoring				
Goats - at farm - Monitoring				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Solipeds, domestic - horses - at farm - Monitoring				2
Badgers - wild - unspecified - Survey - national survey				
Bears - wild - unspecified - Clinical investigations				
Birds - wild - at farm - Clinical investigations				
Birds - wild - at farm - Monitoring				
Birds - wild - unspecified - Clinical investigations				
Birds - wild - unspecified - Monitoring				78
Birds - wild - unspecified - Survey - national survey				8
Canary - at retail - Survey - national survey				
Cantabrian chamois - unspecified - Survey - national survey				
Cats - pet animals - at retail - Clinical investigations				
Cats - pet animals - at retail - Survey - national survey				
Cattle (bovine animals) - at farm - Clinical investigations				
Cattle (bovine animals) - at farm - Clinical investigations				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Cattle (bovine animals) - at farm - Clinical investigations				1
Cattle (bovine animals) - at farm - Monitoring				3
Cattle (bovine animals) - at farm - Monitoring				
Cattle (bovine animals) - at farm - Survey - national survey				6
Cattle (bovine animals) - at farm - Survey - national survey				
Cattle (bovine animals) - at farm - Unspecified				
Cattle (bovine animals) - at retail - Clinical investigations				
Cattle (bovine animals) - at slaughterhouse - Monitoring				
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations				
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations				1
Cattle (bovine animals) - breeding bulls - at farm - Monitoring				
Cattle (bovine animals) - breeding bulls - at farm - Unspecified			3	
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations				
Cattle (bovine animals) - dairy cows - at farm - Monitoring				
Cattle (bovine animals) - dairy cows - at farm - Monitoring				
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations				
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations				
Cattle (bovine animals) - meat production animals - fattening cows - at slaughterhouse - Clinical investigations				
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations				
Deer - wild - roe deer - unspecified - Survey - national survey				
Deer - wild - unspecified - Survey - national survey				
Dogs - pet animals - at farm - Clinical investigations				
Dogs - pet animals - at farm - Monitoring				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Dogs - pet animals - at retail - Clinical investigations				
Dogs - pet animals - at retail - Survey - national survey				2
Dogs - pet animals - at retail - Unspecified				
Ducks - at farm - Clinical investigations				
Falcons - at farm - Monitoring				
Foxes - wild - unspecified - Survey - national survey				
Gallus gallus (fowl) - at farm - Monitoring				
Gallus gallus (fowl) - at slaughterhouse - Monitoring				18
Gallus gallus (fowl) - broilers - at farm - Clinical investigations				3
Gallus gallus (fowl) - broilers - at farm - Survey - national survey				4
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations				1
Goats - at farm - Clinical investigations				
Goats - at farm - Clinical investigations				
Goats - at farm - Clinical investigations				
Goats - at farm - Monitoring				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Goats - at farm - Survey - national survey				
Gulls - at farm - Clinical investigations				
Gulls - unspecified - Survey - national survey				6
Monkeys - zoo animal - at farm - Clinical investigations				
Monkeys - zoo animal - at farm - Unspecified				
Other animals - at retail - Clinical investigations				
Other animals - at retail - Unspecified				
Other animals - wild - unspecified - Monitoring				10
Other animals - wild - unspecified - Survey - national survey				
Parrots - at retail - Survey - national survey				
Partridges - at farm - Clinical investigations				
Pigeons - at farm - Survey - national survey				
Pigeons - at retail - Clinical investigations				
Pigeons - unspecified - Clinical investigations				
Pigs - at farm - Clinical investigations				
Pigs - at farm - Monitoring				
Pigs - at farm - Survey - national survey				
Pigs - at farm - Unspecified				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Pigs - at slaughterhouse - Monitoring				
Poultry, unspecified - at farm - Clinical investigations				
Poultry, unspecified - at farm - Monitoring				2
Poultry, unspecified - at farm - Unspecified				1
Poultry, unspecified - at retail - Clinical investigations		1		
Quails - unspecified - Unspecified				
Rabbits - at farm - Clinical investigations				
Sheep - at farm - Clinical investigations				
Sheep - at farm - Clinical investigations				
Sheep - at farm - Clinical investigations				
Sheep - at farm - Monitoring				
Sheep - at farm - Survey - national survey				
Sheep - at farm - Survey - national survey				12
Sheep and goats - at farm - Clinical investigations				
Sheep and goats - at farm - Monitoring				
Sheep and goats - at farm - Unspecified				
Solipeds, domestic - donkeys - at farm - Monitoring				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobacter spp., unspecified	C. fetus	Campylobacter spp., unspecified
Solipeds, domestic - horses - at farm - Clinical investigations				
Solipeds, domestic - horses - at farm - Clinical investigations				
Solipeds, domestic - horses - at farm - Survey - national survey				
Turkeys - at farm - Clinical investigations				
Turkeys - at farm - Unspecified				1
Turtles - at retail - Clinical investigations				
Water buffalos - at farm - Clinical investigations				
Water buffalos - at farm - Clinical investigations				
Water buffalos - at farm - Monitoring				
Water buffalos - at farm - Survey - national survey				6
Wild animals - at farm - Clinical investigations				
Wild animals - at farm - Monitoring				2
Wild animals - unspecified - Monitoring		4		60
Wild animals - unspecified - Survey - national survey				2
Wild boars - unspecified - Survey - national survey				
Wild boars - wild - at farm - Monitoring				

Table Campylobacter in animals

	C. upsaliensis	Thermophilic Campylobact er spp., unspecified	C. fetus	Campylobact er spp., unspecified
Wild boars - wild - unspecified - Monitoring				
Wild boars - wild - unspecified - Survey - national survey				

2.2.4 Antimicrobial resistance in Campylobacter isolates

Table Antimicrobial susceptibility testing of C. jejuni in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to																											
C. jejuni		Gallus gallus (fowl) - at farm - Surveillance																									
Isolates out of a monitoring program (yes/no)																											
Number of isolates available in the laboratory		14																									
Antimicrobials:		Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin		1	2	0								1	1														
Aminoglycosides - Streptomycin		2	2	0											2												
Amphenicols - Chloramphenicol		16	2	0												2											
Fluoroquinolones - Ciprofloxacin		1	2	1								1					1										
Quinolones - Nalidixic acid		16	2	1													1				1						
Tetracyclines - Tetracycline		2	2	1									1						1								
Macrolides - Erythromycin		4	2	0										2													

C. jejuni		Gallus gallus (fowl) - at farm - Surveillance	
Isolates out of a monitoring program (yes/no)			
Number of isolates available in the laboratory		14	
Antimicrobials:		lowest	highest
Aminoglycosides - Gentamicin		0.12	16
Aminoglycosides - Streptomycin		1	16
Amphenicols - Chloramphenicol		2	32
Fluoroquinolones - Ciprofloxacin		0.06	4

Table Antimicrobial susceptibility testing of C. jejuni in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

C. jejuni Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Gallus gallus (fowl) - at farm - Surveillance	
	14	
	lowest	highest
Quinolones - Nalidixic acid	2	64
Tetracyclines - Tetracycline	0.25	16
Macrolides - Erythromycin	0.5	32

Table Antimicrobial susceptibility testing of C. jejuni in Pigeons - unspecified - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

C. jejuni	Pigeons - unspecified - Surveillance																									
	Isolates out of a monitoring program (yes/no)																									
	Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	≥4096	1024	2048
Aminoglycosides - Gentamicin	1	9	0								5	3	1													
Aminoglycosides - Streptomycin	2	9	1											8		1										
Amphenicols - Chloramphenicol	16	9	0												9											
Fluoroquinolones - Ciprofloxacin	1	9	0							2	7															
Quinolones - Nalidixic acid	16	9	0												3	6										
Tetracyclines - Tetracycline	2	9	0									8	1													
Macrolides - Erythromycin	4	9	0										9													

C. jejuni	Pigeons - unspecified - Surveillance	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.12	16
Aminoglycosides - Streptomycin	1	16
Amphenicols - Chloramphenicol	2	32
Fluoroquinolones - Ciprofloxacin	0.06	4
Quinolones - Nalidixic acid	2	64
Tetracyclines - Tetracycline	0.25	16

Table Antimicrobial susceptibility testing of *C. jejuni* in Pigeons - unspecified - Surveillance - quantitative data [Dilution method]

C. jejuni Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	Pigeons - unspecified - Surveillance	
	63	
	lowest	highest
Macrolides - Erythromycin	0.5	32

Table Antimicrobial susceptibility testing of C. jejuni in Milk, cows' - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to

C. jejuni	Milk, cows' - at retail - Surveillance																									
	7																									
Antimicrobials:	Cut-off value	N	n	≤0.002	≤0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048
Aminoglycosides - Gentamicin	1	1	0								1															
Aminoglycosides - Streptomycin	2	1	0											1												
Amphenicols - Chloramphenicol	16	1	0												1											
Fluoroquinolones - Ciprofloxacin	1	1	0							1																
Quinolones - Nalidixic acid	16	1	0													1										
Tetracyclines - Tetracycline	2	1	0									1														
Macrolides - Erythromycin	4	1	0										1													

C. jejuni	Milk, cows' - at retail - Surveillance	
	7	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin	0.12	16
Aminoglycosides - Streptomycin	1	16
Amphenicols - Chloramphenicol	2	32
Fluoroquinolones - Ciprofloxacin	0.06	4
Quinolones - Nalidixic acid	2	64
Tetracyclines - Tetracycline	0.25	16

Table Antimicrobial susceptibility testing of C. jejuni in Milk, cows' - at retail - Surveillance - quantitative data [Dilution method]

C. jejuni Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory	Milk, cows' - at retail - Surveillance	
	7	
Antimicrobials:	lowest	highest
Macrolides - Erythromycin	0.5	32

2.3 LISTERIOSIS

2.3.1 General evaluation of the national situation

A. Listeriosis general evaluation

National evaluation of the recent situation, the trends and sources of infection

REPORT 2012

22151 samples represent the HACCP and official control activities performed on animals and foods in 2012. According to the data reported in the previous year, in 2012 a significant decrease of the number of samples tested for *Listeria monocytogenes* (46336 in 2011, 23107 in 2012) was recorded.

The overall prevalence of *Listeria monocytogenes* was 2,15%, in particular 0,5% (9/1887) in animals and 2,33 % (473/20264) in foods. Regarding clinical investigation 305 samples were collected and from 3 *Listeria monocytogenes* was isolated (0,98%).

According to the contest, 0,4% (40/10088) of the samples collected for own check activities and 3,72% (436/11732) collected by official control were contaminated by *Listeria monocytogenes*.

About clinical investigations, 0,98% (3/305) of the samples were positive for *Listeria monocytogenes*.

The most consistent sampling activity was performed in transformation laboratory (13669) where 1,49% of the samples were found contaminated, followed by retail store (4840) with 4,77% of no compliant samples.

According to a generic classification of the food categories reported in the system, RTE products represented 84,75% of tested food and 70,54% of no compliant samples (340/482). In particular 1,83% (340/18584) of RTE products resulted contaminated, represented mostly by the following groups of food: meat products (positive samples: 0,71% of RTE products; 4,23% within the group), cheeses (positive samples: 0,73% of RTE products; 1,36% within the group), milk and milk products (positive samples: 0,05% of RTE products; 0,28% within the group), fishery products, fish preparations and prepared fish preparation (positive samples: 0,12% of RTE products; 5,31% within the group), gastronomic preparations (positive samples: 0,18% of RTE products; 2,63% within the group) and vegetables and fruits (positive samples: 0,03%; 1,83% within the group).

On a whole, 24 samples had a contamination load more than 100 CFU/g, represented by meat products (1,76% of the positive RTE samples), cheeses (2,94% of the positive RTE samples), gastronomic preparation (0,29% of the positive RTE samples), fresh fishery products and fresh meat (0,70% of the positive no RTE samples).

About the sampling point, 16 samples (66,67%) with more than 100 CFU/g were collected at retail level, 8 (33,33%) at transformation laboratories.

RTE is still the most relevant category of food involved in cases of *Listeria monocytogenes* infection.

Additional information

Comments on ANIMALS data:

no correspondence is found to the expected number of samples to be collected for HACCP verification, as prescribed by the national legislation, to assess the presence of *Listeria monocytogenes* in herds producing raw milk to be sold for direct consumption or to produce unpasteurized dairy products.

Comments on FOOD data:

71,06% of the data on „species“ are not reported

It is not clear, for some type of food, if they are to be considered RTE or not (es. prepared fishery products, egg products, minced meat).

Also the information recorded in the field „Matrix/species“ create a misunderstanding for the operator who inputs the data, so the information about the matrix sampled, in some cases, is not reported.

2.3.2 Listeria in foodstuffs

Table Listeria monocytogenes in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogenes	Units tested with detection method	Listeria monocytogenes presence in x g
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	2	0
Milk, cows' - pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0	6	0
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses made from cows' milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	75	1	59	1
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0	7	0
Cheeses made from cows' milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	23	0	23	0
Cheeses made from cows' milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	422	0	422	0
Cheeses made from cows' milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	20	0	20	0
Cheeses made from cows' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0	15	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses made from cows' milk - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	10	0
Cheeses made from cows' milk - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	179	4	174	4
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0	9	0
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	23	0	23	0
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	37	1	36	1
Cheeses made from cows' milk - hard - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	1	1	0
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	18	0	18	0
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	60	3	57	3
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0	3	0
Cheeses made from cows' milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	42	0	42	0
Cheeses made from cows' milk - hard - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	17	0	17	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	1	22	1
Cheeses made from cows' milk - hard - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	43	0	38	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	16	0	16	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	91	0	91	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5415	0	5415	0
Cheeses made from cows' milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	8	0
Cheeses made from cows' milk - soft and semi-soft - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	1	0
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0	5	0
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	1	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses made from goats' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Cheeses made from goats' milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses made from goats' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0	17	0
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	97	0	77	0
Cheeses made from sheep's milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	26	1	23	1
Cheeses made from sheep's milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	43	0	43	0
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	26	0	22	0
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses, made from unspecified milk or other animal milk - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	43	0	43	0
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	13	0	8	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	121	0	104	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling		Domestic	Single	25 Gram	3	0	3	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	157	0	146	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	791	48	538	46
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	48	0	48	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	395	3	393	3
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	95	5	79	5
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	726	30	700	30
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0	4	0
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses, made from unspecified milk or other animal milk - hard - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	3	0
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0	24	0
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	13	0	13	0
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	96	0	96	0
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	121	0	114	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	7	0	7	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	213	0	213	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	101	0	99	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	1	5	1
Dairy products (excluding cheeses) - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	1	0
Dairy products (excluding cheeses) - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	25	0	25	0
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	6	0	6	0
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	133	14	111	14
Dairy products (excluding cheeses) - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	8	0	8	0
Dairy products (excluding cheeses) - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	42	0	42	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Dairy products (excluding cheeses) - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Single	25 Gram	5	0	5	0
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	129	24	125	20
Dairy products (excluding cheeses) - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - butter - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	37	0	37	0
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Dairy products (excluding cheeses) - butter - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	24	0	24	0
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0	15	0
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Dairy products (excluding cheeses) - cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	4	0
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0	9	0
Dairy products (excluding cheeses) - cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - dairy desserts - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - fermented dairy products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - ice-cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	62	0	62	0
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	3	0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	52	0	49	0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0	1	0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	94	1	86	1
Dairy products (excluding cheeses) - ice-cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	13	0	13	0
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	1	0
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0	7	0
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Dairy products (excluding cheeses) - yoghurt - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0	6	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0	13	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	12	0	12	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0	3	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products (excluding cheeses) - yoghurt - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0	17	0
Dairy products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Dairy products, unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0	4	0
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	31	0	26	0
Dairy products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	11	0	11	0
Dairy products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0	8	0
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	1	0
Dairy products, unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0	4	0
Milk from other animal species or unspecified - UHT milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	2	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Milk from other animal species or unspecified - UHT milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	3	0
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0	10	0
Milk from other animal species or unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Milk from other animal species or unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	15	0	15	0
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1614	6	1614	6
Milk from other animal species or unspecified - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	25	1	25	1
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	29	0	29	0
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	72	0	67	0
Milk from other animal species or unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	65	1	65	1
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	12	1	12	1
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	341	0	341	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0	4	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	2	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	49	0	46	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	16	0	16	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0	12	0
Milk, cows' - UHT milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk, cows' - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	32	0	27	0
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0	4	0
Milk, cows' - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	25	0	25	0
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	8	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Milk, cows' - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk, cows' - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	40	0	40	0
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	45	0	45	0
Milk, cows' - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk, cows' - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Milk, cows' - pasteurised milk - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0	2	0
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Milk, cows' - pasteurised milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	351	0	351	0
Milk, cows' - pasteurised milk - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	12	0	12	0
Milk, goats' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0	1	0
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	2	0
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Milk, sheep's - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	2	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Milk, cows' - pasteurised milk - at processing plant - Surveillance			
Milk, cows' - pasteurised milk - at retail - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance			
Cheeses made from cows' milk - at catering - Surveillance			
Cheeses made from cows' milk - at processing plant - Surveillance	20	0	0
Cheeses made from cows' milk - at processing plant - Surveillance			
Cheeses made from cows' milk - at processing plant - Survey - national survey			
Cheeses made from cows' milk - at processing plant - Unspecified			
Cheeses made from cows' milk - at processing plant - Unspecified			
Cheeses made from cows' milk - at retail - Surveillance	2	0	0
Cheeses made from cows' milk - fresh - at catering - Surveillance	1	0	0
Cheeses made from cows' milk - fresh - at catering - Unspecified			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	5	0	0
Cheeses made from cows' milk - fresh - at processing plant - Surveillance			
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey			
Cheeses made from cows' milk - fresh - at retail - Surveillance	1	0	0
Cheeses made from cows' milk - hard - at catering - Surveillance	3	1	0
Cheeses made from cows' milk - hard - at processing plant - Surveillance			
Cheeses made from cows' milk - hard - at processing plant - Surveillance	19	0	3
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey			
Cheeses made from cows' milk - hard - at processing plant - Unspecified			
Cheeses made from cows' milk - hard - at processing plant - Unspecified			
Cheeses made from cows' milk - hard - at retail - Surveillance	16	0	1
Cheeses made from cows' milk - hard - at retail - Unspecified			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	5	0	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified			
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified			
Cheeses made from cows' milk - soft and semi-soft - at retail - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - at retail - Unspecified			
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at retail - Surveillance	1	0	0
Cheeses made from goats' milk - at processing plant - Surveillance			
Cheeses made from goats' milk - at processing plant - Surveillance	2	0	0
Cheeses made from goats' milk - at retail - Surveillance			
Cheeses made from goats' milk - hard - at processing plant - Unspecified			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from goats' milk - soft and semi-soft - at processing plant - Unspecified			
Cheeses made from sheep's milk - at processing plant - Surveillance	6	0	0
Cheeses made from sheep's milk - at processing plant - Surveillance	20	0	0
Cheeses made from sheep's milk - at retail - Surveillance	5	0	0
Cheeses made from sheep's milk - hard - at processing plant - Surveillance			
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	7	0	0
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance			
Cheeses, made from unspecified milk or other animal milk - at catering - Survey - national survey			
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified			
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance	8	0	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	18	0	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	11	0	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	311	2	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey			
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	2	0	0
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	16	0	0
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	126	0	1
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance			
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey - national survey			
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified			
Cheeses, made from unspecified milk or other animal milk - hard - at catering - Unspecified			
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey			
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Unspecified			
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance			
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Unspecified			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Surveillance			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at catering - Unspecified			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	7	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Survey - national survey			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	2	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance			
Dairy products (excluding cheeses) - at catering - Surveillance	1	0	0
Dairy products (excluding cheeses) - at catering - Survey - national survey	1	0	0
Dairy products (excluding cheeses) - at catering - Unspecified			
Dairy products (excluding cheeses) - at processing plant - Surveillance			
Dairy products (excluding cheeses) - at processing plant - Surveillance			
Dairy products (excluding cheeses) - at processing plant - Surveillance	36	0	0
Dairy products (excluding cheeses) - at processing plant - Survey - national survey	1	0	0
Dairy products (excluding cheeses) - at processing plant - Unspecified			
Dairy products (excluding cheeses) - at processing plant - Unspecified			
Dairy products (excluding cheeses) - at retail - Surveillance	37	0	5
Dairy products (excluding cheeses) - at retail - Survey - national survey			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Dairy products (excluding cheeses) - butter - at catering - Surveillance			
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance			
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance			
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance			
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	16	0	0
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey	1	0	0
Dairy products (excluding cheeses) - butter - at processing plant - Unspecified			
Dairy products (excluding cheeses) - butter - at retail - Surveillance	8	0	0
Dairy products (excluding cheeses) - butter - at retail - Surveillance			
Dairy products (excluding cheeses) - cream - at catering - Surveillance			
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	1	0	0
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	2	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Dairy products (excluding cheeses) - cream - at retail - Surveillance	1	0	0
Dairy products (excluding cheeses) - dairy desserts - at catering - Unspecified			
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance			
Dairy products (excluding cheeses) - fermented dairy products - at processing plant - Surveillance	1	0	0
Dairy products (excluding cheeses) - ice-cream - at catering - Surveillance	1	0	0
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified			
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	15	0	0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	3	0	0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance			
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	13	1	0
Dairy products (excluding cheeses) - ice-cream - at retail - Unspecified			
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	3	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	1	0	0
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance	1	0	0
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance			
Dairy products (excluding cheeses) - yoghurt - at catering - Unspecified			
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	2	0	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance			
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance			
Dairy products (excluding cheeses) - yoghurt - at processing plant - Survey - national survey	1	0	0
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified			
Dairy products (excluding cheeses) - yoghurt - at retail - Surveillance	9	0	0
Dairy products, unspecified - at catering - Surveillance	1	0	0
Dairy products, unspecified - at catering - Survey - national survey	2	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Dairy products, unspecified - at processing plant - Surveillance	7	0	0
Dairy products, unspecified - at processing plant - Survey - national survey	1	0	0
Dairy products, unspecified - at processing plant - Unspecified			
Dairy products, unspecified - at retail - Surveillance	1	0	0
Dairy products, unspecified - at retail - Surveillance	3	0	0
Dairy products, unspecified - at retail - Survey - national survey	1	0	0
Milk from other animal species or unspecified - UHT milk - at catering - Surveillance			
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance	1	0	0
Milk from other animal species or unspecified - UHT milk - at processing plant - Unspecified			
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance			
Milk from other animal species or unspecified - at catering - Surveillance			
Milk from other animal species or unspecified - at catering - Unspecified			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Milk from other animal species or unspecified - at farm - Surveillance	123	0	0
Milk from other animal species or unspecified - at farm - Survey - national survey	25	1	0
Milk from other animal species or unspecified - at processing plant - Surveillance			
Milk from other animal species or unspecified - at processing plant - Surveillance	11	0	0
Milk from other animal species or unspecified - at processing plant - Survey - national survey	1	0	0
Milk from other animal species or unspecified - at processing plant - Unspecified			
Milk from other animal species or unspecified - at retail - Surveillance			
Milk from other animal species or unspecified - at retail - Surveillance	287	0	0
Milk from other animal species or unspecified - at retail - Surveillance			
Milk from other animal species or unspecified - at retail - Survey - national survey	1	0	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at catering - Unspecified			
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	27	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	5	0	0
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Unspecified			
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at retail - Surveillance			
Milk, cows' - UHT milk - at catering - Surveillance			
Milk, cows' - at catering - Surveillance			
Milk, cows' - at farm - Surveillance	5	0	0
Milk, cows' - at processing plant - Surveillance			
Milk, cows' - at processing plant - Surveillance			
Milk, cows' - at processing plant - Surveillance			
Milk, cows' - at processing plant - Survey - national survey			
Milk, cows' - at processing plant - Unspecified			
Milk, cows' - at retail - Surveillance			
Milk, cows' - at retail - Survey - national survey			
Milk, cows' - at retail - Unspecified			
Milk, cows' - pasteurised milk - at farm - Surveillance			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Milk, cows' - pasteurised milk - at processing plant - Surveillance			
Milk, cows' - pasteurised milk - at processing plant - Unspecified			
Milk, cows' - pasteurised milk - at processing plant - Unspecified			
Milk, goats' - at farm - Surveillance			
Milk, sheep's - at processing plant - Surveillance			
Milk, sheep's - at processing plant - Surveillance			
Milk, sheep's - at processing plant - Unspecified			

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	74	4	23	4
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0	4	0
Infant formula - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	51	0	47	0
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	58	0	58	0
All foodstuffs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0	24	0
All foodstuffs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	1	3	1
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	35	7	32	7
Bakery products - bread - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0	7	0
Bakery products - bread - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Bakery products - desserts - containing raw eggs and cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Bakery products - pastry - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	57	2	57	2
Bakery products - pastry - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Bakery products - pastry - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	19	0	19	0
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0	17	0
Bakery products - pastry - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Bakery products - pastry - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	79	0	75	0
Bakery products - pastry - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	37	0	37	0
Beverages, non-alcoholic - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Beverages, non-alcoholic - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0	14	0
Chocolate - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Crustaceans - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	2	0
Crustaceans - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0	5	0
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Egg products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	4	0
Egg products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Eggs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	2	4	2
Fats and oils (excluding butter) - fats - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Fats and oils (excluding butter) - fats - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	1	0
Fats and oils (excluding butter) - fats - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Fats and oils (excluding butter) - fats - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Fish - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0	14	0
Fish - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0	1	0
Fish - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	48	0	42	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	169	21	80	14
Fish - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fish - marinated - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	2	0
Fish - marinated - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fish - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	3	0
Fish - unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0	1	0
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0	1	0
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	1	0
Fish - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	29	20	8	2
Fish - unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0	6	0
Fishery products, unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	21	0	21	0
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	44	0	35	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	35	2	29	2
Fishery products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	9	0	9	0
Fishery products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	200	0	200	0
Fishery products, unspecified - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	20	0	20	0
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	69	1	36	1
Fishery products, unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	27	0	27	0
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fruits - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	1	15	1
Fruits - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fruits - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	39	1	39	1
Fruits - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Fruits and vegetables - products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Fruits and vegetables - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	4	0
Honey - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Infant formula - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Infant formula - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Infant formula - liquid - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0	7	0
Infant formula - liquid - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	8	0
Juice - fruit juice - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Juice - fruit juice - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	1	24	1
Meat from bovine animals - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Meat from bovine animals - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	45	2	37	1
Meat from bovine animals - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	100	0	100	0
Meat from bovine animals - fresh - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	27	0	18	0
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	3	3	3

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from bovine animals - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0	6	0
Meat from bovine animals - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0	4	0
Meat from bovine animals - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from bovine animals - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Meat from bovine animals - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from bovine animals - meat products - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	14	0	14	0
Meat from bovine animals - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0	6	0
Meat from bovine animals - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	2	0
Meat from bovine animals - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	16	0		

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	2	0
Meat from bovine animals - minced meat - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	66	9	15	9
Meat from bovine animals - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	48	1	48	1
Meat from bovine animals - offal - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0	4	0
Meat from bovine animals - offal - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from bovine animals - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	3	0
Meat from broilers (<i>Gallus gallus</i>) - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	102	0	102	0
Meat from broilers (<i>Gallus gallus</i>) - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from broilers (<i>Gallus gallus</i>) - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	1	1	1
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from horse - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	2	0
Meat from other animal species or not specified - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	5	0
Meat from other animal species or not specified - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	22	1	22	1
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	0	12	0
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	2	0
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	1	0
Meat from other animal species or not specified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	99	1	97	1
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	66	2	44	2
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	88	2		
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from other animal species or not specified - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	14	0	14	0
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	1	8	1

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0	3	0
Meat from other animal species or not specified - meat preparation - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	33	2	33	2
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	46	1	13	1
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	47	2	27	2
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	21	0	21	0
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	45	11		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	71	4	47	2
Meat from other animal species or not specified - meat preparation - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from other animal species or not specified - meat preparation - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	30	1	28	1
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	150	9	118	9
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	60	15	40	15
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	169	3	97	1
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	293	35	260	33
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	247	13	235	3
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	272	19	168	10
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	35	1	35	1
Meat from other animal species or not specified - meat products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	73	0	71	0
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from other animal species or not specified - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	1	6	1
Meat from other animal species or not specified - minced meat - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	12	1	12	1
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	1	6	1
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	1	0
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	0	1	0
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0	7	0
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	79	12	33	11
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	1		
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from other animal species or not specified - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	70	0	70	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from other animal species or not specified - offal - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	2	6	2
Meat from other animal species or not specified - offal - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	1	7	1
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	51	0	16	0
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	18	2	17	2
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0	3	0
Meat from other animal species or not specified - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	1	3	1
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Meat from other animal species or not specified - offal - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from pig - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	1	4	1
Meat from pig - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1	1	1

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0	3	0
Meat from pig - fresh - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	78	3	78	3
Meat from pig - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	101	0	101	0
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0	8	0
Meat from pig - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Meat from pig - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from pig - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	16	0	16	0
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0	12	0
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	48	0	37	0
Meat from pig - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0	2	0
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	9	0
Meat from pig - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	271	1	271	1
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	304	10	220	10
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	620	14	594	14
Meat from pig - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	64	2	62	0
Meat from pig - meat products - at processing plant - Unspecified	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	315	0	8	0
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	253	7	212	6
Meat from pig - meat products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	15	0	15	0
Meat from pig - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	1	0
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	24	6	9	6
Meat from pig - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	2	3	2
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Meat from pig - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from pig - offal - liver - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from poultry, unspecified - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	3	3	3
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	30	1	20	1
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0	3	0
Meat from poultry, unspecified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	1		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	1	5	1
Meat from poultry, unspecified - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	1	5	1
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	1	2	1

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from poultry, unspecified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	3	0
Meat from poultry, unspecified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0	4	0
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from poultry, unspecified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	1	2	1
Meat from poultry, unspecified - meat products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	1	0
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	1	1	1
Meat from poultry, unspecified - offal - liver - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from rabbit - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Meat from rabbit - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1	1	1
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0	7	0
Meat from sheep - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	6	0
Meat from turkey - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	3	5	3
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	1	3	1
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Meat from turkey - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from turkey - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	1	0
Meat from turkey - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from turkey - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Meat from turkey - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	1	1	1
Meat from turkey - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from wild boar - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0	10	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from wild boar - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0	7	0
Meat from wild boar - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	0	32	0
Meat from wild game - land mammals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0	13	0
Molluscan shellfish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	5	0
Molluscan shellfish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	5	0	5	0
Molluscan shellfish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0	6	0
Molluscan shellfish - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	3	4	3
Molluscan shellfish - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	14	0	14	0
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	1	0
Molluscan shellfish - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0	4	0
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	1	0
Other processed food products and prepared dishes - pasta - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	18	0	18	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	26	2	22	2
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	3	0
Other processed food products and prepared dishes - pasta - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	68	5	37	5
Other processed food products and prepared dishes - pasta - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	2	0
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	15	0	15	0
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	321	6	296	6
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0	2	0
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	327	1	327	1
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	1	6	1

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	13	0	10	0
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	155	3	140	3
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	37	0	37	0
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	0	10	0
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	395	25	349	9
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0	4	0
Other processed food products and prepared dishes - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	65	0	65	0
Other products of animal origin - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Sauce and dressings - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0	9	0
Sauce and dressings - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	15	0	15	0
Sauce and dressings - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0	7	0
Sauce and dressings - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Sauce and dressings - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	10	0
Spices and herbs - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Spices and herbs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0	24	0
Surimi - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0
Sweets - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0	14	0
Sweets - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	4	0
Sweets - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0	17	0
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	1	14	1
Vegetables - at catering - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	2	0
Vegetables - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	62	1	62	1
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0	8	0
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	1	0
Vegetables - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	6	0	6	0
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	258	1	223	1
Vegetables - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	15	0	15	0
Water - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	1	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from pig - fresh - at processing plant - Surveillance	51	0	0
Meat from bovine animals - fresh - at processing plant - Surveillance	1	0	0
Infant formula - at retail - Surveillance	10	0	0
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance	1	0	0
All foodstuffs - at catering - Surveillance			
All foodstuffs - at processing plant - Surveillance	1	0	0
All foodstuffs - at retail - Surveillance	3	0	0
Bakery products - bread - at catering - Unspecified			
Bakery products - bread - at retail - Surveillance			
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified			
Bakery products - desserts - containing raw eggs and cream - at processing plant - Surveillance			
Bakery products - desserts - containing raw eggs and cream - at processing plant - Unspecified			
Bakery products - desserts - containing raw eggs and cream - at retail - Surveillance			

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Bakery products - pastry - at catering - Surveillance	12	0	0
Bakery products - pastry - at catering - Survey - national survey	1	0	0
Bakery products - pastry - at catering - Unspecified			
Bakery products - pastry - at processing plant - Surveillance	3	0	0
Bakery products - pastry - at processing plant - Survey - national survey	1	0	0
Bakery products - pastry - at processing plant - Unspecified			
Bakery products - pastry - at retail - Surveillance	18	0	0
Bakery products - pastry - at retail - Unspecified			
Beverages, non-alcoholic - at catering - Surveillance			
Beverages, non-alcoholic - at retail - Surveillance	2	0	0
Chocolate - at retail - Surveillance			
Crustaceans - at processing plant - Surveillance	1	0	0
Crustaceans - at processing plant - Unspecified			
Crustaceans - at retail - Surveillance			
Egg products - at processing plant - Surveillance	2	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Egg products - at retail - Surveillance			
Eggs - at processing plant - Surveillance			
Eggs - at retail - Surveillance			
Fats and oils (excluding butter) - fats - at processing plant - Surveillance			
Fats and oils (excluding butter) - fats - at processing plant - Surveillance			
Fats and oils (excluding butter) - fats - at processing plant - Surveillance			
Fats and oils (excluding butter) - fats - at processing plant - Unspecified	1	0	0
Fats and oils (excluding butter) - fats - at retail - Surveillance			
Fats and oils (excluding butter) - fats - at retail - Surveillance			
Fish - at catering - Surveillance			
Fish - at catering - Unspecified			
Fish - at processing plant - Surveillance	10	0	0
Fish - at processing plant - Surveillance	2	0	0
Fish - at processing plant - Unspecified	6	0	0
Fish - at retail - Surveillance	89	6	1
Fish - at retail - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Fish - marinated - at catering - Surveillance	1	0	0
Fish - marinated - at processing plant - Surveillance			
Fish - unspecified - at catering - Unspecified			
Fish - unspecified - at farm - Surveillance			
Fish - unspecified - at processing plant - Surveillance	5	0	0
Fish - unspecified - at processing plant - Surveillance	2	0	0
Fish - unspecified - at retail - Surveillance	24	18	0
Fish - unspecified - at retail - Surveillance			
Fishery products, unspecified - at catering - Surveillance	13	0	0
Fishery products, unspecified - at catering - Unspecified			
Fishery products, unspecified - at processing plant - Surveillance			
Fishery products, unspecified - at processing plant - Surveillance	1	0	0
Fishery products, unspecified - at processing plant - Surveillance	15	0	0
Fishery products, unspecified - at processing plant - Surveillance	21	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Fishery products, unspecified - at processing plant - Survey - national survey	2	0	0
Fishery products, unspecified - at processing plant - Unspecified			
Fishery products, unspecified - at processing plant - Unspecified			
Fishery products, unspecified - at retail - Surveillance	46	1	0
Fishery products, unspecified - at retail - Unspecified			
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at processing plant - Surveillance			
Foodstuffs intended for special nutritional uses - dried dietary foods for special medical purposes intended for infants below 6 months - at retail - Surveillance			
Fruits - at catering - Surveillance			
Fruits - at processing plant - Surveillance			
Fruits - at retail - Surveillance			
Fruits - products - at retail - Surveillance			
Fruits and vegetables - products - at processing plant - Surveillance			
Fruits and vegetables - products - at retail - Surveillance	2	0	0

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Honey - at retail - Surveillance	2	0	0
Infant formula - at catering - Surveillance			
Infant formula - at retail - Surveillance			
Infant formula - liquid - at processing plant - Surveillance			
Infant formula - liquid - at retail - Surveillance			
Juice - fruit juice - at processing plant - Surveillance	1	0	0
Juice - fruit juice - at retail - Surveillance	5	0	0
Meat from bovine animals - carcass - at slaughterhouse - Surveillance			
Meat from bovine animals - fresh - at catering - Surveillance	2	0	0
Meat from bovine animals - fresh - at processing plant - Surveillance	8	0	1
Meat from bovine animals - fresh - at processing plant - Unspecified			
Meat from bovine animals - fresh - at processing plant - Unspecified	9	0	0
Meat from bovine animals - fresh - at retail - Surveillance	4	0	0
Meat from bovine animals - fresh - at retail - Unspecified			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from bovine animals - fresh - at slaughterhouse - Surveillance			
Meat from bovine animals - meat preparation - at catering - Surveillance	1	0	0
Meat from bovine animals - meat preparation - at processing plant - Surveillance	1	0	0
Meat from bovine animals - meat preparation - at retail - Surveillance	8	0	0
Meat from bovine animals - meat products - at catering - Surveillance			
Meat from bovine animals - meat products - at catering - Unspecified			
Meat from bovine animals - meat products - at processing plant - Surveillance			
Meat from bovine animals - meat products - at processing plant - Unspecified			
Meat from bovine animals - meat products - at retail - Surveillance	1	0	0
Meat from bovine animals - minced meat - at catering - Surveillance	5	0	0
Meat from bovine animals - minced meat - at processing plant - Surveillance	16	0	0
Meat from bovine animals - minced meat - at processing plant - Surveillance	9	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from bovine animals - minced meat - at processing plant - Unspecified			
Meat from bovine animals - minced meat - at retail - Surveillance	51	0	0
Meat from bovine animals - minced meat - at retail - Unspecified			
Meat from bovine animals - offal - at catering - Surveillance	8	0	0
Meat from bovine animals - offal - at processing plant - Surveillance			
Meat from bovine animals - offal - at processing plant - Survey - national survey	1	0	0
Meat from bovine animals - offal - at retail - Surveillance	8	0	0
Meat from broilers (<i>Gallus gallus</i>) - fresh - at processing plant - Unspecified			
Meat from broilers (<i>Gallus gallus</i>) - meat products - at retail - Surveillance	1	0	0
Meat from broilers (<i>Gallus gallus</i>) - minced meat - at retail - Surveillance	4	0	0
Meat from deer (venison) - fresh - at processing plant - Surveillance			
Meat from horse - minced meat - at retail - Surveillance	1	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from other animal species or not specified - fresh - at catering - Surveillance	4	0	0
Meat from other animal species or not specified - fresh - at catering - Unspecified			
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	4	0	0
Meat from other animal species or not specified - fresh - at processing plant - Surveillance			
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	1	0	0
Meat from other animal species or not specified - fresh - at processing plant - Unspecified	2	0	0
Meat from other animal species or not specified - fresh - at retail - Surveillance	29	1	0
Meat from other animal species or not specified - fresh - at retail - Surveillance	88	2	0
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	1	0	0
Meat from other animal species or not specified - fresh - at retail - Unspecified			
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	9	0	0
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey	1	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from other animal species or not specified - meat preparation - at catering - Unspecified	2	2	0
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	33	0	0
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	28	1	0
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified			
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	45	6	5
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	36	1	0
Meat from other animal species or not specified - meat preparation - at retail - Survey - national survey	1	0	0
Meat from other animal species or not specified - meat preparation - at retail - Unspecified			
Meat from other animal species or not specified - meat products - at catering - Surveillance	4	0	0
Meat from other animal species or not specified - meat products - at catering - Surveillance			
Meat from other animal species or not specified - meat products - at catering - Unspecified	38	4	0

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	20	0	0
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	72	2	0
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	87	17	1
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey			
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	12	4	1
Meat from other animal species or not specified - meat products - at retail - Surveillance	168	10	2
Meat from other animal species or not specified - meat products - at retail - Surveillance			
Meat from other animal species or not specified - meat products - at retail - Unspecified	2	0	0
Meat from other animal species or not specified - mechanically separated meat (MSM) - at processing plant - Surveillance	1	0	0
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from other animal species or not specified - minced meat - at catering - Surveillance	3	0	0
Meat from other animal species or not specified - minced meat - at catering - Unspecified			
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	7	0	0
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	1	0	0
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	4	0	0
Meat from other animal species or not specified - minced meat - at processing plant - Survey - national survey			
Meat from other animal species or not specified - minced meat - at processing plant - Unspecified			
Meat from other animal species or not specified - minced meat - at retail - Surveillance	52	5	0
Meat from other animal species or not specified - minced meat - at retail - Surveillance	1	1	0
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey			
Meat from other animal species or not specified - minced meat - at retail - Unspecified			
Meat from other animal species or not specified - offal - at catering - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Meat from other animal species or not specified - offal - at catering - Unspecified			
Meat from other animal species or not specified - offal - at processing plant - Surveillance	11	0	0
Meat from other animal species or not specified - offal - at processing plant - Surveillance	35	0	0
Meat from other animal species or not specified - offal - at processing plant - Surveillance	1	0	0
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey			
Meat from other animal species or not specified - offal - at processing plant - Unspecified			
Meat from other animal species or not specified - offal - at retail - Surveillance	4	0	0
Meat from other animal species or not specified - offal - at retail - Surveillance			
Meat from other animal species or not specified - offal - at retail - Unspecified			
Meat from pig - carcase - at slaughterhouse - Surveillance			
Meat from pig - fresh - at catering - Surveillance	1	0	0
Meat from pig - fresh - at processing plant - Surveillance	1	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from pig - fresh - at processing plant - Unspecified			
Meat from pig - fresh - at processing plant - Unspecified			
Meat from pig - fresh - at retail - Surveillance	7	0	0
Meat from pig - fresh - at retail - Unspecified			
Meat from pig - fresh - at slaughterhouse - Surveillance	1	0	0
Meat from pig - meat preparation - at catering - Surveillance			
Meat from pig - meat preparation - at processing plant - Surveillance			
Meat from pig - meat preparation - at processing plant - Surveillance	6	0	0
Meat from pig - meat preparation - at processing plant - Surveillance	11	0	0
Meat from pig - meat preparation - at retail - Surveillance	7	0	0
Meat from pig - meat products - at catering - Surveillance	2	0	0
Meat from pig - meat products - at catering - Unspecified			
Meat from pig - meat products - at processing plant - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from pig - meat products - at processing plant - Surveillance	84	1	2
Meat from pig - meat products - at processing plant - Surveillance	26	0	0
Meat from pig - meat products - at processing plant - Unspecified	2	2	0
Meat from pig - meat products - at processing plant - Unspecified	307	0	0
Meat from pig - meat products - at retail - Surveillance	42	1	0
Meat from pig - meat products - at retail - Unspecified			
Meat from pig - minced meat - at catering - Surveillance	1	0	0
Meat from pig - minced meat - at processing plant - Surveillance	2	0	0
Meat from pig - minced meat - at processing plant - Surveillance	15	0	0
Meat from pig - minced meat - at retail - Surveillance	13	0	0
Meat from pig - offal - at processing plant - Surveillance	10	0	0
Meat from pig - offal - at processing plant - Surveillance			
Meat from pig - offal - at retail - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from pig - offal - liver - at processing plant - Surveillance			
Meat from poultry, unspecified - fresh - at catering - Surveillance	4	0	0
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	10	0	0
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	3	0	0
Meat from poultry, unspecified - fresh - at processing plant - Unspecified			
Meat from poultry, unspecified - fresh - at retail - Surveillance	10	1	0
Meat from poultry, unspecified - fresh - at retail - Surveillance	13	0	0
Meat from poultry, unspecified - fresh - at retail - Unspecified			
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	1	0	0
Meat from poultry, unspecified - meat preparation - at processing plant - Surveillance	1	0	0
Meat from poultry, unspecified - meat preparation - at retail - Surveillance	6	0	0
Meat from poultry, unspecified - meat products - at catering - Surveillance			

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from poultry, unspecified - meat products - at catering - Unspecified			
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	1	0	0
Meat from poultry, unspecified - meat products - at processing plant - Unspecified			
Meat from poultry, unspecified - meat products - at retail - Surveillance	2	0	0
Meat from poultry, unspecified - meat products - at retail - Unspecified			
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance	2	0	0
Meat from poultry, unspecified - minced meat - at retail - Surveillance	2	0	0
Meat from poultry, unspecified - offal - liver - at retail - Surveillance	1	0	0
Meat from rabbit - carcase - at slaughterhouse - Surveillance			
Meat from rabbit - fresh - at retail - Surveillance	1	0	0
Meat from sheep - fresh - at processing plant - Surveillance			
Meat from sheep - meat preparation - at retail - Surveillance	1	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	5	0	0
Meat from turkey - fresh - at catering - Surveillance	3	0	0
Meat from turkey - fresh - at processing plant - Surveillance	3	0	0
Meat from turkey - fresh - at processing plant - Surveillance			
Meat from turkey - fresh - at retail - Surveillance	2	0	0
Meat from turkey - meat preparation - at retail - Surveillance	3	0	0
Meat from turkey - meat products - at processing plant - Surveillance	1	0	0
Meat from turkey - meat products - at retail - Surveillance	1	0	0
Meat from turkey - minced meat - at processing plant - Surveillance	6	0	0
Meat from turkey - minced meat - at retail - Surveillance	13	0	0
Meat from turkey - offal - at processing plant - Surveillance	1	0	0
Meat from wild boar - fresh - at catering - Surveillance			

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Meat from wild boar - fresh - at processing plant - Surveillance			
Meat from wild boar - fresh - at retail - Surveillance			
Meat from wild game - land mammals - fresh - at retail - Surveillance			
Molluscan shellfish - at catering - Surveillance			
Molluscan shellfish - at farm - Surveillance	1	0	0
Molluscan shellfish - at farm - Survey - national survey			
Molluscan shellfish - at processing plant - Surveillance			
Molluscan shellfish - at processing plant - Survey - national survey			
Molluscan shellfish - at processing plant - Unspecified			
Molluscan shellfish - at retail - Surveillance	4	0	0
Molluscan shellfish - at retail - Survey - national survey			
Other processed food products and prepared dishes - pasta - at catering - Surveillance	3	0	0
Other processed food products and prepared dishes - pasta - at catering - Unspecified			

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	1	0	0
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	4	0	0
Other processed food products and prepared dishes - pasta - at processing plant - Unspecified			
Other processed food products and prepared dishes - pasta - at retail - Surveillance	31	0	0
Other processed food products and prepared dishes - pasta - at retail - Unspecified	1	0	0
Other processed food products and prepared dishes - unspecified - at catering - Surveillance			
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	152	3	0
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	1	0	0
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey	1	0	0
Other processed food products and prepared dishes - unspecified - at catering - Unspecified			
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	12	0	0

Table *Listeria monocytogenes* in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogenes > 100 cfu/g
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	3	0	0
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	44	2	0
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified			
Other processed food products and prepared dishes - unspecified - at retail - Surveillance			
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	159	19	1
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey	2	0	0
Other processed food products and prepared dishes - unspecified - at retail - Unspecified			
Other products of animal origin - at processing plant - Surveillance	2	0	0
Sauce and dressings - at catering - Surveillance	9	0	0
Sauce and dressings - at catering - Unspecified			
Sauce and dressings - at processing plant - Surveillance	9	0	0
Sauce and dressings - at processing plant - Surveillance			

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Sauce and dressings - at retail - Surveillance	8	0	0
Spices and herbs - at processing plant - Surveillance	2	0	0
Spices and herbs - at retail - Surveillance	17	0	0
Surimi - at processing plant - Surveillance			
Sweets - at catering - Surveillance	1	0	0
Sweets - at processing plant - Surveillance			
Sweets - at retail - Surveillance			
Vegetables - at catering - Surveillance	4	0	0
Vegetables - at catering - Surveillance			
Vegetables - at catering - Unspecified			
Vegetables - at processing plant - Surveillance	4	0	0
Vegetables - at processing plant - Surveillance			
Vegetables - at retail - Surveillance			
Vegetables - at retail - Surveillance	113	0	0
Vegetables - at retail - Unspecified			
Water - at retail - Surveillance			

2.3.3 Listeria in animals

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0		0	
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0		0	
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	16	0		0	
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Holding	1	0		0	
Alpacas - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0		0	
Cantabrian chamois - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0		0	
Cantabrian chamois - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Animal	9	1	1	0	
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0		0	
Cats - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0		0	
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	34	0		0	
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	264	1		1	
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	4	0		0	

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	78	0		0	
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	herd/flock	2	0		0	
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0		0	
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	50	0		0	
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	36	0		0	
Cattle (bovine animals) - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0		0	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0		0	
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0		0	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	3	3	0	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0		0	
Cattle (bovine animals) - dairy cows - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0		0	
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0		0	

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0		0	
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0		0	
Deer - wild - fallow deer - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0		0	
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0		0	
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	9	0		0	
Foxes - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0		0	
Foxes - wild - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0		0	
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	3	0		0	
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0		0	
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	62	0		0	
Goats - at farm - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	2	0		0	
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	7	0		0	
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	2	1	1	
Gulls - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0		0	

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Hares - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0		0	
Hares - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0		0	
Monkeys - zoo animal - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0		0	
Other animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Other animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Pigeons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0		0	
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0		0	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0		0	
Rodents - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	9	0		0	
Rodents - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	7	0		0	
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Holding	5	1		1	
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	235	1		1	
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	49	0		0	
Sheep - at farm - Monitoring	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	herd/flock	4	0		0	
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0		0	
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	24	0		0	

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Sheep - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0		0	
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	14	0		0	
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	15	3	3	0	
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	1			1
Sheep and goats - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	77	0		0	
Sheep and goats - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Sheep and goats - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0		0	
Solipeds, domestic - donkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	0		0	
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0		0	
Solipeds, domestic - horses - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0		0	
Solipeds, domestic - horses - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0		0	
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	13	0		0	
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0		0	
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	39	0		0	
Wild animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0		0	

Table Listeria in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogenes	Listeria spp., unspecified	L. innocua
Wild animals - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0		0	
Wild animals - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	21	0		0	
Wild boars - wild - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	12	1		1	
Wild boars - wild - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0		0	
Wild boars - wild - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	21	2		2	

2.4 E. COLI INFECTIONS

2.4.1 General evaluation of the national situation

A. Verotoxigenic Escherichia coli infections general evaluation

History of the disease and/or infection in the country

VTEC infections are not very frequent in Italy. The incidence of HUS is two times lower than in central/Northern Europe. However the severity of the HUS cases makes this zoonosis relevant for public health.

VTEC are present in ruminant animals at prevalence rates comparable to those of other countries.

In general food contamination with VTEC O157 is sporadic and the public health significance of such contamination depends on the risk profile of the food (high for raw milk and other ready to eat food, lower for ground beef).

National evaluation of the recent situation, the trends and sources of infection

Although not very frequent, the severity of the HUS cases makes VTEC infections relevant for public health.

As in other countries, VTEC are frequent in domestic and wild ruminants. Contamination of beef and dairy products is not frequent, but it occurs sporadically. Consumption of raw milk is legal and quite popular in some Italian regions: although carefully regulated, it represents a serious problem. Information on the trend of human infections mainly comes from HUS surveillance, carried out since 1988 on a voluntary basis: the trend is quite stable, with 40 HUS cases per year reported, for an annual incidence of about 0.40 cases per 100,000 residents aged 0-14 years. In the last years, similar numbers of cases by O157 and O26 were observed.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

Surveys on animals (calves at slaughter and dairy cows in farms selling raw milk) and on ready to eat food at risk are conducted on a regional level and contribute to evaluate the production processes.

Recent actions taken to control the zoonoses

Regular testing raw milk for direct consumption and the lactating cows for VTEC O157

Regional surveys on animals (calves at slaughter and dairy cows in farms selling raw milk) and on ready to eat food at risk

Warning signs placed on automatic dispenser of raw milk to advice the public on the need to boil the milk before consumption.

Suggestions to the European Union for the actions to be taken

Warning signs placed on automatic dispenser of raw milk to advice the public on the need to boil the milk before consumption.

Additional information

Scavia G, Morabito S, Tozzoli R, Michelacci V, Marziano ML, Minelli F, Ferreri C, Paglialonga F, Edefonti A, Caprioli A. Similarity of Shiga toxin-producing Escherichia coli O104:H4 strains from Italy and Germany. *Emerg Infect Dis.* 2011 Oct;17(10):1957-8.

Scavia G, Escher M, Baldinelli F, Pecoraro C, Caprioli A. Consumption of unpasteurized milk as a risk factor for hemolytic uremic syndrome in Italian children. *Clin Infect Dis.* 2009 Jun 1;48(11):1637-8.

Conedera G, Mattiazzi E, Russo F, Chiesa E, Scorzato I, Grandesso S, Bessegato A, Fioravanti A,

Caprioli A. A family outbreak of *Escherichia coli* O157 haemorrhagic colitis caused by pork meat salami. *Epidemiol Infect.* 2007, Feb;135(2):311-4.

Silvestro L, Caputo M, Blancato S, Decastelli L, Fioravanti A, Tozzoli R, Morabito S, Caprioli A. Asymptomatic carriage of verocytotoxin-producing *Escherichia coli* O157 in farm workers in Northern Italy. *Epidemiol Infect.* 2004 Oct;132(5):915-9.

Tozzi AE, Caprioli A, Minelli F, Gianviti A, De Petris L, Edefonti A, Montini G, Ferretti A, De Palo T, Gaido M, Rizzoni G; Hemolytic Uremic Syndrome Study Group.

Shiga toxin-producing *Escherichia coli* infections associated with hemolytic uremic syndrome, Italy, 1988-2000. *Emerg Infect Dis.* 2003 Jan;9(1):106-8.

2.4.2 E. coli infections in humans

A. Verotoxigenic Escherichia coli infections in humans

Reporting system in place for the human cases

VTEC infection and HUS are not notifiable diseases, and surveillance is carried out on a voluntary basis. A surveillance system for HUS in paediatric patients has been working since 1988. HUS cases are notified to ISS, which coordinates the Italian Registry for HUS and is the National Reference Laboratory for VTEC in both medical and veterinary/food fields.

The NRL performs laboratory diagnosis of VTEC infection in clinical samples from HUS cases. It also receives suspected VTEC strains from clinical microbiology laboratories. However, VTEC are routinely searched by only a few laboratories, and therefore HUS cases represent most of the cases of VTEC infection identified.

Case definition

Confirmed case: Laboratory evidence of VTEC infections.

Diagnostic/analytical methods used

- Identification of E.coli strains as VTEC by demonstration of VT production (vero cells) and presence of vtx genes (PCR).
- in HUS cases, detection of free fecal VT by vero cells.
- in HUS cases, detection of LPS- antibodies for serogroups O157, O26, O103, O111, O145, O104.

Notification system in place

Cases of HUS are voluntarily notified to the National Registry or HUS.

Cases of VTEC-associated diarrhea can be reported as non-salmonella gastroenteritis

A laboratory surveillance system for VTEC infections on a voluntary basis is in place.

History of the disease and/or infection in the country

The HUS trend is quite stable, with 40 HUS cases per year reported, for an annual incidence of about 0.40 cases per 100,000 residents aged 0-14 years. The most common serogroup in the 1990s was O157, while O26 prevailed in the 2000s. In the last years, similar numbers of cases by O157 and O26 were observed.

National evaluation of the recent situation, the trends and sources of infection

The HUS trend is quite stable. During 2007 and 2008 an increasing number of HUS cases have been associated to raw milk consumption, which is becoming popular in Italy due to local sale by automatic dispensers. The number of cases associated went down after warning signs were placed on the automatic dispensers of raw milk, to advice the public on the need to boil the milk before consumption.

Relevance as zoonotic disease

Although not very frequent, the severity of the HUS cases make this zoonosis relevant for public health.

Additional information

Scavia G, Morabito S, Tozzoli R, Michelacci V, Marziano ML, Minelli F, Ferreri C, Paglialonga F, Edefonti A, Caprioli A. Similarity of Shiga toxin-producing Escherichia coli O104:H4 strains from Italy and Germany. *Emerg Infect Dis.* 2011 Oct;17(10):1957-8.

Scavia G, Escher M, Baldinelli F, Pecoraro C, Caprioli A. Consumption of unpasteurized milk as a risk factor for hemolytic uremic syndrome in Italian children. *Clin Infect Dis.* 2009 Jun 1;48(11):1637-8.

Conedera G, Mattiazzi E, Russo F, Chiesa E, Scorzato I, Grandesso S, Bessegato A, Fioravanti A,

Caprioli A. A family outbreak of *Escherichia coli* O157 haemorrhagic colitis caused by pork meat salami. *Epidemiol Infect.* 2007, Feb;135(2):311-4.

Silvestro L, Caputo M, Blancato S, Decastelli L, Fioravanti A, Tozzoli R, Morabito S, Caprioli A. Asymptomatic carriage of verocytotoxin-producing *Escherichia coli* O157 in farm workers in Northern Italy. *Epidemiol Infect.* 2004 Oct;132(5):915-9.

Tozzi AE, Caprioli A, Minelli F, Gianviti A, De Petris L, Edefonti A, Montini G, Ferretti A, De Palo T, Gaido M, Rizzoni G; Hemolytic Uremic Syndrome Study Group.

Shiga toxin-producing *Escherichia coli* infections associated with hemolytic uremic syndrome, Italy, 1988-2000. *Emerg Infect Dis.* 2003 Jan;9(1):106-8.

2.4.3 Escherichia coli, pathogenic in foodstuffs

Table VT E. coli in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E. coli (VTEC) - VTEC O157
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance ¹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Classification not possible	Single	25 Gram	193	5	
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance ²⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Classification not possible	Single	25 Gram	72	5	
Dairy products (excluding cheeses) - at processing plant - Surveillance ³⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Classification not possible	Single	25 Gram	58	2	
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance ⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Classification not possible	Single	25 Gram	91	3	1
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	ISO 16654:2001	Single	25 Gram	1	1	
Meat from bovine animals - minced meat - at retail - Surveillance ⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Classification not possible	Single	25 Gram	22	8	
Milk from other animal species or unspecified - at farm - Surveillance ⁶⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	Single	25 Gram	1688	8	
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Real-Time PCR	Single	25 Gram	170	2	

Table VT E. coli in food

		Verotoxigenic E. coli (VTEC) - VTEC non- O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified	Verotoxigenic E. coli (VTEC) - VTEC O157:HNM	Verotoxigenic E. coli (VTEC) - VTEC O157:HNM - eae positive vtx1 positive vtx2 positive
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	1)				
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	2)				
Dairy products (excluding cheeses) - at processing plant - Surveillance	3)				
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	4)				
Fruits and vegetables - products - at catering - Surveillance				1	
Meat from bovine animals - minced meat - at retail - Surveillance	5)				1
Milk from other animal species or unspecified - at farm - Surveillance	6)				
Milk from other animal species or unspecified - at processing plant - Surveillance					

Comments:

- 1) Multiple methods used
- 2) Multiple methods used
- 3) Multiple methods used
- 4) Multiple methods used

Table VT E. coli in food

Comments:

⁵⁾ Multiple methods used

⁶⁾ Multiple methods used

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
All foodstuffs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	44	0		
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Beverages, non-alcoholic - at retail - Surveillance ¹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from cows' milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	8	0		
Cheeses made from cows' milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Cheeses made from sheep's milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Cheeses made from sheep's milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	43	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	56	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	21	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance ²⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	15	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	21	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance ³⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	85	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	14	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Coconut - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at retail - Surveillance ⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Dairy products (excluding cheeses) - yoghurt - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Dairy products, unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Fish - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - unspecified - at processing plant - Surveillance ⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - unspecified - at processing plant - Surveillance ⁶⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Fish - unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	32	0		
Fish - unspecified - at retail - Surveillance ⁷⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	56	3	3	
Fruits and vegetables - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Juice - fruit juice - at processing plant - Surveillance ⁸⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Juice - fruit juice - at retail - Surveillance ⁹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from bovine animals - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	4	4	
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	45	16	16	
Meat from bovine animals - fresh - at processing plant - Unspecified ¹⁰⁾	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	10 Gram	4	0		
Meat from bovine animals - fresh - at processing plant - Unspecified ¹¹⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	25	1	1	
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from bovine animals - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at catering - Surveillance ¹²⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - meat products - at processing plant - Surveillance ¹³⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at retail - Surveillance ¹⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	20	7	7	
Meat from bovine animals - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	4	4	
Meat from bovine animals - minced meat - at processing plant - Surveillance ¹⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - minced meat - at processing plant - Unspecified ¹⁶⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	27	5	5	
Meat from bovine animals - minced meat - at retail - Surveillance ¹⁷⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	8	7	
Meat from bovine animals - offal - at catering - Surveillance ¹⁸⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	8	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - offal - at processing plant - Surveillance ¹⁹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	2	2	
Meat from bovine animals - offal - at retail - Surveillance ²⁰⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from broilers (Gallus gallus) - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	4	4	
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from horse - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	1	1	
Meat from horse - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at catering - Surveillance ²¹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance ²²⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from other animal species or not specified - fresh - at processing plant - Surveillance ²³⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - fresh - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	4	4	
Meat from other animal species or not specified - fresh - at retail - Surveillance ²⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance ²⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	9	9	
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	37	28	28	
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	21	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance ²⁶⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	113	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	1	1	
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	18	12	12	
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	3	3	
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	12	12	
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance ²⁷⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at slaughterhouse - Surveillance ²⁸⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	1	1	
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	3	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	2	2	
Meat from other animal species or not specified - minced meat - at retail - Surveillance ²⁹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	81	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	5	5	
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - offal - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	15	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from pig - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	1	1	
Meat from pig - fresh - at processing plant - Unspecified ³⁰⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - fresh - at processing plant - Unspecified ³¹⁾	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	39	0		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at processing plant - Surveillance ³²⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	11	11	

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	24	15	15	
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from pig - meat products - at processing plant - Unspecified ³³⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat products - at retail - Surveillance ³⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	19	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	36	20	20	
Meat from pig - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	8	8	
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - minced meat - at processing plant - Surveillance ³⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	6	6	
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	5	5	
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Meat from poultry, unspecified - fresh - at processing plant - Unspecified ³⁶⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	2	2	
Meat from poultry, unspecified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	1	1	
Meat from poultry, unspecified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1	1	
Meat from poultry, unspecified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	2	2	
Meat from poultry, unspecified - minced meat - at processing plant - Unspecified ³⁷⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from poultry, unspecified - offal - at processing plant - Surveillance ³⁸⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - offal - at retail - Surveillance ³⁹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - offal - liver - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from rabbit - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	4	4	
Meat from sheep - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	5	5	
Meat from sheep - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from sheep - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	1	1	
Meat from turkey - fresh - at processing plant - Unspecified ⁴⁰⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	1	1	

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Meat from turkey - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from turkey - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	1	1	
Meat from turkey - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	14	10	10	
Meat from wild boar - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	10	10	
Meat from wild boar - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	17	12	12	
Meat from wild boar - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	68	17	17	
Meat from wild game - land mammals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	50	5	5	
Milk from other animal species or unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	12	0		
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	10	0		
Milk from other animal species or unspecified - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Single	25 Gram	1	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	56	0		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at processing plant - Surveillance ⁴¹⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	28	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at retail - Surveillance ⁴²⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	315	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	1	1	
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	9	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Milk, cows' - at farm - Surveillance ⁴³⁾	Sinzoo	Census	Official sampling	animal sample	Domestic	Single	25 Gram	25	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	6	0		
Milk, cows' - at farm - Surveillance ⁴⁴⁾	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	7	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	1	1	
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, cows' - at processing plant - Unspecified ⁴⁵⁾	Sinzoo	Census	HACCP and own checks	food sample	Domestic	Single	25 Gram	45	0		
Milk, cows' - at processing plant - Unspecified ⁴⁶⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0		
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	1	1	
Milk, cows' - at retail - Surveillance ⁴⁷⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	188	0		
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Milk, cows' - at retail - Unspecified ⁴⁸⁾	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk, goats' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk, sheep's - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Molluscan shellfish - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	4	0		
Molluscan shellfish - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	3	0		
Molluscan shellfish - at retail - Surveillance ⁴⁹⁾	Sinzoo	Census	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0		
Molluscan shellfish - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance ⁵⁰⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance ⁵¹⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling		Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	11	8	8	
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Other processed food products and prepared dishes - unspecified - at retail - Surveillance ⁵²⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	25	1	1	
Sauce and dressings - at catering - Surveillance ⁵³⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Spices and herbs - at retail - Surveillance ⁵⁴⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Spices and herbs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Vegetables - at processing plant - Surveillance ⁵⁵⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at processing plant - Surveillance ⁵⁶⁾	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	110	5	5	
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Vegetables - at retail - Surveillance ⁵⁷⁾	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		

Table Escherichia coli, pathogenic in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Escherichia coli, pathogenic
Water - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		

Comments:

- ¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ²⁾ Multiple methods used
- ³⁾ Multiple methods used
- ⁴⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁵⁾ Multiple methods used
- ⁶⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁷⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁸⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹⁰⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists

Table Escherichia coli, pathogenic in Food

Comments:

- ¹²⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹³⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹⁴⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹⁵⁾ Multiple methods used
- ¹⁶⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹⁷⁾ Multiple methods used
- ¹⁸⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ¹⁹⁾ Multiple methods used
- ²⁰⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ²¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ²²⁾ Multiple methods used
- ²³⁾ Multiple methods used
- ²⁴⁾ Multiple methods used
- ²⁵⁾ Multiple methods used
- ²⁶⁾ Multiple methods used
- ²⁷⁾ Multiple methods used
- ²⁸⁾ Multiple methods used
- ²⁹⁾ Multiple methods used

Table Escherichia coli, pathogenic in Food

Comments:

- ³⁰⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³²⁾ Multiple methods used
- ³³⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³⁴⁾ Multiple methods used
- ³⁵⁾ Multiple methods used
- ³⁶⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³⁷⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³⁸⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³⁹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁰⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴¹⁾ Multiple methods used
- ⁴²⁾ Multiple methods used
- ⁴³⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁴⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁵⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists

Table Escherichia coli, pathogenic in Food

Comments:

- ⁴⁶⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁷⁾ Multiple methods used
- ⁴⁸⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁵⁰⁾ Multiple methods used
- ⁵¹⁾ Multiple methods used
- ⁵²⁾ Multiple methods used
- ⁵³⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁵⁴⁾ Multiple methods used
- ⁵⁵⁾ Multiple methods used
- ⁵⁶⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁵⁷⁾ Multiple methods used

2.4.4 Escherichia coli, pathogenic in animals

A. Verotoxigenic Escherichia coli in cattle (bovine animals)

Monitoring system

Sampling strategy

On a regular basis only for farms that sell raw milk for direct consumption. Limited to VTEC O157. In the other settings, only sporadic surveys.

For raw milk farms, pooling of the feces of 5 lactating cows is allowed.

Frequency of the sampling

Animals at farm

Variable by Region. On average, 4 official sampling per year.

Case definition

Animals at farm

VTEC O157 isolated from feces.

Diagnostic/analytical methods used

Animals at farm

Modified ISO 16654:2001

Control program/mechanisms

Suggestions to the European Union for the actions to be taken

Warning signs placed on automatic dispenser of raw milk to advice the public on the need to boil the milk before consumption.

Measures in case of the positive findings or single cases

If VTEC O157 is found in cow feces, selling raw milk is suspended.

Positive cows are removed from the production of milk for direct consumption.

Relevance of the findings in animals to findings in foodstuffs and to human cases (as a source of infection)

The number of HUS cases with history of drinking raw milk went down after warning signs were placed on the automatic dispensers of raw milk, to advice the public on the need to boil the milk before consumption.

Table VT E. coli in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E. coli (VTEC) - VTEC O157
Sheep - at farm - Monitoring ¹⁾	Sinzoo	Census	Official sampling	animal sample	Domestic	Classification not possible	Animal	Gram	1	1	
Cats - pet animals - at farm - Monitoring ²⁾	Sinzoo	Census	Official sampling	animal sample	Domestic	Classification not possible	Animal	Gram	1	1	
Cattle (bovine animals) - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Microbiological tests	Animal	Gram	112	2	2
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	herd/flock	Gram	6	2	2
Dogs - pet animals - at farm - Monitoring ³⁾	Sinzoo	Census	Official sampling	animal sample	Domestic	Classification not possible	Animal	Gram	1	1	
Other animals - at farm - Monitoring ⁴⁾	Sinzoo	Census	Official sampling	animal sample	Domestic	Classification not possible	Animal	Gram	2	2	
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	herd/flock	Gram	3	2	1
Wild animals - unspecified - Survey - national survey ⁵⁾	Sinzoo	Unspecified	Not applicable		Domestic	Classification not possible	Animal	Gram	6	1	

	Verotoxigenic E. coli (VTEC) - VTEC non-O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Sheep - at farm - Monitoring ¹⁾		
Cats - pet animals - at farm - Monitoring ²⁾		
Cattle (bovine animals) - at slaughterhouse - Survey - national survey		
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations		

Table VT E. coli in animals

		Verotoxigenic E. coli (VTEC) - VTEC non- O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Dogs - pet animals - at farm - Monitoring	³⁾		
Other animals - at farm - Monitoring	⁴⁾		
Water buffalos - at farm - Clinical investigations			
Wild animals - unspecified - Survey - national survey	⁵⁾	1	

Comments:

- ¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ²⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ³⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁴⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- ⁵⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists

Table Escherichia coli, pathogenic in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Enteropathogenic E. coli (EPEC)
Alpacas - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Cantabrian chamois - unspecified - Survey - national survey ¹⁾	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	0		
Cats - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	9	2		2
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	0		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	22	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	Gram	4	0		
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	2	0		
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	1	1	
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	Gram	1	0		
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	Gram	1	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring ²⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Gram	2	0		
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		

Table Escherichia coli, pathogenic in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Enteropathogenic E. coli (EPEC)
Cattle (bovine animals) - dairy cows - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	Gram	2	0		
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	0		
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	Gram	2	0		
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring ³⁾	Sinzoo	Census	Official sampling	environmental sample	Domestic	Animal	Gram	2	0		
Deer - wild - roe deer - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	0		
Deer - wild - roe deer - unspecified - Survey - national survey ⁴⁾	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	56	0		
Deer - wild - unspecified - Survey - national survey ⁵⁾	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	2	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	3	2		2
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	2	0		
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	2	2		2
Other animals - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	Gram	2	0		
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	0		
Pigs - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	Gram	1	0		

Table Escherichia coli, pathogenic in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Escherichia coli, pathogenic	E.coli, pathogenic, unspecified	Enteropathogenic E. coli (EPEC)
Pigs - at slaughterhouse - Monitoring ⁶⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Gram	1	0		
Rabbits - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	5	0		
Rabbits - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Rodents - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	1	1		1
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	Gram	1	1		1
Solipeds, domestic - donkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	6	0		
Solipeds, domestic - horses - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	0		
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	3	2		1
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	15	0		
Wild boars - unspecified - Survey - national survey ⁷⁾	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	21	0		
Wild boars - wild - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	3	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Suspect sampling	Official sampling		Domestic	Animal	Gram	12	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	13	2	2	
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	76	0		

Table Escherichia coli, pathogenic in Animals

	Escherichia coli, pathogenic
Alpacas - at farm - Clinical investigations	
Cantabrian chamois - unspecified - Survey - national survey ¹⁾	
Cats - pet animals - at retail - Survey - national survey	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Monitoring	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Unspecified	
Cattle (bovine animals) - at farm - Unspecified	
Cattle (bovine animals) - at slaughterhouse - Monitoring ²⁾	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	
Cattle (bovine animals) - dairy cows - at farm - Monitoring	

Table Escherichia coli, pathogenic in Animals

	Escherichia coli, pathogenic
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring	
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Monitoring ³⁾	
Deer - wild - roe deer - at farm - Clinical investigations	
Deer - wild - roe deer - unspecified - Survey - national survey ⁴⁾	
Deer - wild - unspecified - Survey - national survey ⁵⁾	
Dogs - pet animals - at retail - Clinical investigations	
Foxes - wild - unspecified - Monitoring	
Goats - at farm - Clinical investigations	
Other animals - at retail - Unspecified	
Pigs - at farm - Clinical investigations	
Pigs - at farm - Unspecified	
Pigs - at slaughterhouse - Monitoring ⁶⁾	
Rabbits - at farm - Clinical investigations	

Table Escherichia coli, pathogenic in Animals

	Escherichia coli, pathogenic
Rabbits - at retail - Clinical investigations	
Rodents - wild - unspecified - Monitoring	
Sheep - at farm - Monitoring	
Solipeds, domestic - donkeys - at farm - Clinical investigations	
Solipeds, domestic - horses - at farm - Survey - national survey	
Solipeds, domestic - horses - at retail - Survey - national survey	
Water buffalos - at farm - Clinical investigations	
Water buffalos - at farm - Survey - national survey	
Wild boars - unspecified - Survey - national survey ⁷⁾	
Wild boars - wild - at retail - Survey - national survey	
Wild boars - wild - unspecified - Monitoring	
Wild boars - wild - unspecified - Monitoring	
Wild boars - wild - unspecified - Survey - national survey	

Comments:

¹⁾ Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) -

Table Escherichia coli, pathogenic in Animals

Comments:

Horizontal method) is not mapped in EFSA pickLists

- 2) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- 3) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- 4) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- 5) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- 6) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists
- 7) Used Method (Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups (Qualitative Method) - Horizontal method) is not mapped in EFSA pickLists

2.5 TUBERCULOSIS, MYCOBACTERIAL DISEASES

2.5.1 General evaluation of the national situation

2.5.2 Mycobacterium in animals

A. Mycobacterium bovis in bovine animals

Status as officially free of bovine tuberculosis during the reporting year

Free regions

Those recognized by the European Commission according to community legislation (i.e. Dir. 97/12/EC).
Friuli-Venezia Giulia Region (2006/290/CE)
Emilia Romagna Region (2007/174/CE)
Veneto Region (2008/404/CE)
Lombardia and Toscana Region (2010/391/CE)
Provinces of Bolzano and Trento in Trentino Alto Adige Region (2003/467/CE)
Province of Pescara in Abruzzo Region (2006/169/CE)
Provinces of Rieti and Viterbo in Lazio Region (2011/277/CE).
Provinces of Ascoli Piceno (2003/467/CE) and Fermo (2012/204/UE) in Marche Region
Provinces of Novara, Verbania (2007/174/CE), Vercelli (draft 04/12/2007), Asti and Biella (2012/204/UE) in Piemonte Region
Provinces of Oristano (2009/342/CE), Cagliari, Medio-Campidano, Ogliastra and Olbia-Tempio (2010/391/CE) in Sardegna region

Monitoring system

Sampling strategy

National compulsory eradication program based on a single intradermal skin test according to EU legislation for OTF regions; almost annually for the remaining regions. Post mortem meat inspection.
Sampling of slaughtered animals positive or doubtful to tuberculin test.

Frequency of the sampling

Single skin test According to EC legislation for OTF regions; almost annually for the remaining regions
Type of specimen taken: lymph nodes and organs from TB lesions at abattoir. Blood samples for gamma interferon test according to EU legislation.

Case definition

In OTF regions according to EU legislation. In the remaining regions when the single skin test is positive.
Isolation of *M. bovis* from organs
and/or lymph nodes coming from the active surveillance carried out in the slaughterhouses.

Diagnostic/analytical methods used

According to the methods described in the chapter of OIE manual.
Isolation and bacteriological identification is performed by standard methods according to the chapter 2.4.7 of the OIE manual of Diagnostic tests and Vaccines for Terrestrial Animals 2010.

Vaccination policy

None

Control program/mechanisms

The control program/strategies in place

National control program: all cattle over 6 weeks of age are tested once a year in all officially free herds; 2 negative testing are carried out at a distance of 6 months in order to gain the qualification. Official post mortem examination is performed in all slaughtered cattle with obligatory report to the competent Local Veterinary Services. The control measures reported in Annex A, Chapter I, point 2, letter c), third paragraph of Decision 98/46/EC (i.e. post mortem examination in the slaughterhouse only, testing of all animals entering into holdings inside the officially free province-region) are applied in Friuli Venezia Giulia region. Extraordinary TB eradication regional programs are always approved by National Authorities.

Recent actions taken to control the zoonoses

Annually control by single skin test is performed in dairy herds producing and commercializing raw milk for human consumption also in OTF regions. In some regions Mantoux test is carried out on the farm workers and family member in case of TB outbreak.

Suggestions to the European Union for the actions to be taken

It is suggested to implement a monitoring plan through a targeted sampling in OTF member States.

Measures in case of the positive findings or single cases

All animals positives by tuberculin test are slaughtered within 30 days from the notification to the animal owner. The herd repopulation is made after 2 consecutive negative tests at a distance of 42 days. In Calabria, Campania, Puglia and Sicilia regions positive animals must be slaughtered within 15 days from the notification, as foreseen by a specific Order of the Ministry of Health (Ordinanza Ministeriale 9 Agosto 2012 *¿*Misure straordinarie di polizia veterinaria in materia di tubercolosi, brucellosi bovina, brucellosi ovi-caprina, leucosi nelle regioni Calabria, Campania, Puglia e Sicilia).

No animal movement from and to the infected holding is allowed until all the animals has resulted negative to 2 consecutive tests. The only exception is represented by animals directly moved toward a slaughterhouse. Milk of the positive animals is destructed; milk of the remaining animals in the outbreak is submitted to heat treatment and consumed after pasteurization.

Notification system in place

Each declaration of infected herd is reported by the Local Veterinary service to the local Health Authority (Municipality's Major) and a monthly aggregate report is sent to the National Veterinary Authority. The disease is notifiable since 1954.

National evaluation of the recent situation, the trends and sources of infection

There are still present endemic areas (Sicilia, Calabria, Campania, Puglia).

Relevance of the findings in animals to findings in foodstuffs and to human cases (as a source of infection)

In Piemonte Region 4 TB zoonotic cases were described in farm owners (Goria et al. 2009).

Additional information

References

Molecular identification and subtyping of *Mycobacterium bovis* is performed by in-house standardized methods (Boniotti et al. 2009, J. Clin.

Microbiol. 47:636-644).

M. Beatrice Boniotti, Maria Goria, Daniela Loda, Annalisa Garrone, Alessandro Benedetto, Alessandra Mondo, Ernesto Tisato, Mariagrazia

Zanoni, Simona Zoppi, Alessandro Dondo, Silvia Tagliabue, Stefano Bonora, Giorgio Zanardi and M. Lodovica Pacciarini 2009. Molecular

Typing of Mycobacterium bovis Strains Isolated in Italy from 2000 to 2006 and Evaluation of Variable-Number-Tandem-Repeats for a

Geographic Optimized Genotyping. J. Clin. Microbiol. 47:636-644.

LM. Goria, A. Garrone, A. Benedetto, A. Dondo, S. Zoppi, F. Rossi, L., Chiavacci - A. Barbaro - S. Bonora - A. Mondo - A. Turchi - G. Moda P.Vignetta

- F. Rosso - L. Sala - P. Bruno Ventre - G. Ara - G. Bertolino - M. Veglia - C. Zucca. 2009. La tubercolosi da M. bovis nell'uomo: il

risolto

zoonosico della malattia e i riscontri raccolti in Piemonte. Medicina Veterinaria preventiva n° 30, pagina 50-58.

Table Tuberculosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Mycobacterium	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Badgers - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Badgers - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	4	0			
Bears - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Bears - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	14	1			1
Birds - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	5	0			
Cantabrian chamois - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	169	0			
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Cattle (bovine animals) - dairy cows - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - meat production animals - young cattle (1-2 years) - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	1			1
Deer - wild - red deer - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	162	0			
Deer - wild - red deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	28	0			

Table Tuberculosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Mycobacterium	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	12	0			
Deer - wild - roe deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	299	0			
Deer - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Deer - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	22	0			
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Ducks - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Falcons - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Gallus gallus (fowl) - broilers - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Hares - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Minks - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Monkeys - zoo animal - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	66	0			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			

Table Tuberculosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Mycobacterium	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	299	0			
Pigs - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Pyrenean chamois - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	7	0			
Water buffalos - farmed - at farm - Control and eradication programmes	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	Animal	275390	868			868
Wild animals - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	43	0			
Wild boars - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Wild boars - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Wild boars - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2	0			
Wild boars - wild - at processing plant - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	608	0			
Wild boars - wild - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	12	0			
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	199	1	1		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			

Table Tuberculosis in other animals

Table Bovine tuberculosis - data on herds - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	Indicators		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	3909	2618	2563	6	6	2	33.33	97.9	.23	.23
Basilicata	2648	2629	2627	11	7	1	9.09	99.92	.42	.27
Calabria	7111	5603	5480	34	30	2	5.88	97.8	.62	.55
Campania	11289	8199	8113	25	21	4	16	98.95	.31	.26
Lazio	8003	3778	3770	13	8	4	30.77	99.79	.34	.21
Liguria	1182	923	922	1	1	0	0	99.89	.11	.11
Marche	4384	1349	1349	0	0	0	N.A.	100	0	0
Molise	2911	2218	2218	0	0	0	N.A.	100	0	0
Piemonte	12413	8109	8109	7	7	1	14.29	100	.09	.09
Puglia	4270	4191	4191	7	7	1	14.29	100	.17	.17
Sardegna	4010	3873	3834	3	3	0	0	98.99	.08	.08
Sicilia	10283	9972	9902	304	233	3	.99	99.3	3.07	2.35
Umbria	3223	3	3	0	0	0	N.A.	100	0	0

Table Bovine tuberculosis - data on herds - Community co-financed eradication programmes

Valle d'Aosta/Vallée d'Aoste	1100	1076	1076	3	1	1	33.33	100	.28	.09
Total : ¹⁾	76736	54541	54157	414	324	19	4.59	99.3	.76	.6

Comments:

¹⁾ 0

Table Bovine tuberculosis - data on animals - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		Indicators	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	54725	47681	46418	46418	102	102	102	97.35	.22
Basilicata	84759	82874	82811	82811	52	44	50	99.92	.06
Calabria	121746	104565	102907	102907	158	97	158	98.41	.15
Campania	192759	159363	158604	158604	229	225	297	99.52	.14
Lazio	213395	144055	143695	143695	186	180	710	99.75	.13
Liguria	13884	12197	12191	12191	0	0	0	99.95	0
Marche	46501	35770	35770	35770	0	0	0	100	0
Molise	46391	40704	40704	40704	0	0	0	100	0
Piemonte	693332	491907	481991	481991	308	178	420	97.98	.06
Puglia	176555	174502	174502	174502	54	54	60	100	.03
Sardegna	109432	88946	86400	86400	7	4	29	97.14	.01
Sicilia	384418	353000	351704	351704	2432	2376	3488	99.63	.69
Umbria	59860	890	890	890	0	0	0	100	0

Table Bovine tuberculosis - data on animals - Community co-financed eradication programmes

Valle d'Aosta/Vallée d'Aoste	34598	31584	31584	31584	71	71	71	100	.22
Total : ¹⁾	2232355	1768038	1750171	1750171	3599	3331	5385	98.99	.21

Comments:

¹⁾ 0

Table Bovine tuberculosis - data on status of herds at the end of the period - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Status of herds and animals under the programme													
	Total number of herds and animals under the programme		Unknown		Not free or not officially free				Free or officially free suspended		Free		Officially free	
					Last check positive		Last check negative							
	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	2618	47681	0	0	0	0	318	1873	0	0	0	0	2300	45808
Basilicata	2629	82874	2	53	4	107	3	167	3	288	0	0	2617	82259
Calabria	5574	101251	6	76	5	157	241	3393	40	432	0	0	5282	97193
Campania	8131	159395	86	759	5	289	197	2155	2	89	0	0	7841	156103
Lazio	5316	180750	18	164	1	144	7	1022	12	610	0	0	5278	178810
Liguria	923	12197	2	0	0	0	0	0	1	6	0	0	920	12191
Marche	1349	36011	0	0	0	0	0	0	0	0	0	0	1349	36011
Molise	2218	40704	0	0	0	0	0	0	0	0	0	0	2218	40704
Piemonte	8388	495951	0	0	3	138	1	296	0	0	0	0	8384	495517
Puglia	4181	174702	0	0	1	51	4	306	0	0	0	0	4176	174345
Sardegna	3881	90176	8	404	2	298	4	285	28	2138	0	0	3839	87051
Sicilia	9615	349408	0	0	78	5822	275	11772	31	2035	0	0	9231	329779
Umbria	1718	44273	0	0	0	0	0	0	0	0	0	0	1718	44273

Table Bovine tuberculosis - data on status of herds at the end of the period - Community co-financed eradication programmes

Valle d'Aosta/Vallée d'Aoste	1076	31584	0	0	0	0	0	0	1	124	0	0	1075	31460
Total : ¹⁾	57617	1846957	122	1456	99	7006	1050	21269	118	5722	0	0	56228	1811504

Comments:

¹⁾ 0

Table Bovine tuberculosis in countries and regions that do not receive Community co-financing for eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing bovine		Officially free herds		Infected herds		Routine tuberculin testing		Number of tuberculin tests carried out before the introduction into the herds (Annex A(I)(2)(c) third indent (1) of Directive 64/432/EEC)	Number of animals with suspicious lesions of tuberculosis examined and submitted to histopathological and bacteriological	Number of animals detected positive in bacteriological examination
	Herds	Animals	Number of herds	%	Number of herds	%	Interval between routine tuberculin tests	Number of animals tested			
Abruzzo ¹⁾	740	12400	740	100	0	0	every -1 months	6452	0	0	0
Emilia-Romagna ²⁾	6548	502284	6548	100	0	0	every -1 months	162790	9991	10	5
Friuli-Venezia Giulia ³⁾	1701	77006	1701	100	0	0	every -1 months	920	0	0	0
Lazio ⁴⁾	1880	39354	1880	100	0	0	every -1 months	21496	0	0	0
Lombardia ⁵⁾	10556	1178469	10556	100	0	0	every -1 months	567252	0	6	3
Marche ⁶⁾	573	7862	573	100	0	0	every -1 months	3607	50	0	0
Piemonte ⁷⁾	2047	40112	2046	99.95	0	0	every -1 months	24870	5729	2	2
Provincia Autonoma Bolzano/Bozen ⁸⁾	8181	133033	8181	100	0	0	every -1 months	709	0	7	0
Provincia Autonoma Trento ⁹⁾	1411	40714	1411	100	0	0	every -1 months	37309	3013	2	0
Sardegna ¹⁰⁾	4875	148487	4875	100	0	0	every -1 months	124212	31	0	0
Toscana ¹¹⁾	2061	63934	2060	99.95	1	.05	every -1 months	24097	0	2	1
Veneto ¹²⁾	6352	316359	6352	100	0	0	every -1 months	16382	645	0	0

Table Bovine tuberculosis in countries and regions that do not receive Community co-financing for eradication programmes

Total : ¹³⁾	46925	2560014	46923	100	1	0	0	990096	19459	29	11

Comments:

- ¹⁾ 24 months between two tests
- ²⁾ 36 months between two tests
- ³⁾ 24 or 36 months between two tests, or no routine test is in place
- ⁴⁾ 24 months between two tests
- ⁵⁾ 24 months between two tests
- ⁶⁾ 12 months between two tests
- ⁷⁾ 24 months between two tests
- ⁸⁾ No routine test is in place
- ⁹⁾ 12 months between two tests
- ¹⁰⁾ 24 months between two tests
- ¹¹⁾ 48 months between two tests
- ¹²⁾ 36 months between two tests
- ¹³⁾ 0

2.6 BRUCELLOSIS

2.6.1 General evaluation of the national situation

A. Brucellosis general evaluation

History of the disease and/or infection in the country

Brucellosis is a bacterial disease that affects cattle, buffalo, sheep, goats, pigs, dogs, wild animals and even humans.

The current classification recognizes 6 species, *B. melitensis*, *B. abortus*, *B. suis*, *B. canis*, *B. neotomae* and *B. ovis*. Classification of *Brucella* strains isolated from cetaceans (*B. ceti* and *B. pinnipedialis*) and recently from common voles (*B. microti*) is still in progress.

Under natural conditions *Brucella* is resistant to drying and it can survive several weeks in the external environment, in the dust, in liquid manure and damp soil with low exposure to sunlight; Bacteria remain viable for longer time (2-3 months) in dairy products (butter, cheese, etc.). Survival of *Brucella* in milk and milk products depends on storage temperature and for dairy products it also depends on the production technique used.

National evaluation of the recent situation, the trends and sources of infection

The main route of natural transmission of brucellosis is through the mucous membranes (conjunctival, oral, pharyngeal, intestinal, respiratory, vaginal and preputial mucosa), where the bacteria settle and hence penetrate the epithelial tissue of the host.

Humans become infected mainly following ingestion of unpasteurized milk and dairy products made with raw or unpasteurized milk, however common source of infection are also due to contact of conjunctiva or sores with infected tissues (abortions, placentas, etc.), inhalation of aerosol from infected tissues or during animal slaughtering or accidental inoculation of vaccine. Human-human transmission of infection is very rare.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

In Italy, brucellosis persists only in the southern regions, while almost all northern and central regions of the Country have reached the status of officially free territories. Considering the prevalence and incidence of brucellosis in cattle, buffaloes, sheep and goats registered in the southern regions of Campania, Calabria, Puglia and Sicily, a new Ministerial Order was issued in 2012 establishing extraordinary measures to further implement and complete eradication activities on brucellosis, already in place in compliance with the previous Ministerial Order (MO) started in 2006 (Ministerial Order of 9 August 2012 „Exceptional veterinary health measures concerning bovine tuberculosis, bovine and buffalo brucellosis, EBL and sheep/goat brucellosis in Calabria, Campania, Puglia and Sicily“ G.U. n. 212 del 11/09/2012).

Suggestions to the European Union for the actions to be taken

There are many strains isolated and typed from cattle, buffalo, sheep and goats, but the National Reference laboratory did not reach the strains isolated from man, probably because addressed to other laboratories in human medicine.

Unfortunately, we still did not start an exchange of information and strains between the cases of human brucellosis and the National Reference lab to study the origin of the infection and possibly correlate with brucellosis outbreaks of human cases, even using the tools currently available molecular epidemiology.

2.6.2 Brucella in foodstuffs

Table Brucella in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	4	0			
Cheeses made from cows' milk - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	1	0			
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	3	0			
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	4	0			
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	3	0			
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	2	0			
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	4	0			
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	2	0			
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	5	0			
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	4	0			
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	1	0			

Table Brucella in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	178	7			
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	30	0			
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	81	0			
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	3	0			
Milk, cows' - pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	1	0			
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	116	0			

	Brucella spp., unspecified
Cheeses made from cows' milk - at processing plant - Surveillance	
Cheeses made from cows' milk - fresh - at catering - Surveillance	
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Unspecified	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	

Table Brucella in food

	Brucella spp., unspecified
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	
Dairy products (excluding cheeses) - at processing plant - Surveillance	
Dairy products (excluding cheeses) - at retail - Surveillance	
Dairy products, unspecified - at processing plant - Surveillance	
Milk from other animal species or unspecified - at farm - Surveillance	
Milk from other animal species or unspecified - at processing plant - Surveillance	7
Milk from other animal species or unspecified - at retail - Surveillance	
Milk, cows' - at processing plant - Surveillance	
Milk, cows' - pasteurised milk - at processing plant - Surveillance	
Milk, cows' - pasteurised milk - at retail - Surveillance	
Milk, sheep's - at processing plant - Surveillance	

Table Brucella in food

2.6.3 Brucella in animals

A. Brucella abortus in bovine animals

Status as officially free of bovine brucellosis during the reporting year

Free regions

According to the Community legislation up to 19th april 2012, the following Italian provinces are officially free from bovine brucellosis:

Bergamo
Como
Mantova
Sondrio
Varese
Ascoli Piceno
Bolzano
Trento
Bologna
Ferrara
Forlì
Cesena
Modena
Parma
Piacenza
Ravenna
Reggio Emilia
Rimini
Cagliari
Nuoro
Oristano
Sassari
Cremona
Lodi
Pavia
Arezzo
Grosseto
Livorno
Lucca
Pisa
Brescia
Prato
Perugia
Terni
Alessandra
Asti
Biella
Novara

Verbania
Vercelli
Pescara
all the provinces of Friuli Venezia Giulia
Rieti
Imperia
Savona
Milano
Pistoia
Siena
Torino
Firenze
all the provinces of Veneto
Brindisi
all the provinces of Tuscany

Monitoring system

Diagnostic/analytical methods used

Official methods for the serological diagnosis of brucellosis are the Rose bengal Test (RBT) and complement fixation.

In the provinces officially free the control is carried out on bulk milk samples by i-ELISA.

Vaccination policy

In Italy there is in force a plan for the eradication of the disease, therefore vaccination is forbidden in the country. However, it was sought and obtained an exemption for the breeding of some provinces in Sicily and in Caserta province, where to reduce the circulation of the bacterium, can be effective strategy of vaccinating buffaloes and bovine with RB51 vaccine.

Control program/mechanisms

Recent actions taken to control the zoonoses

In Italy, brucellosis persists only in the southern regions, while almost all northern and central regions of the Country have reached the status of officially free territories. Considering the prevalence and incidence of brucellosis in cattle, buffaloes, sheep and goats registered in the southern regions of Campania, Calabria, Puglia and Sicily, a new Ministerial Order was issued in 2012 establishing extraordinary measures to further implement and complete eradication activities on brucellosis, already in place in compliance with the previous Ministerial Order (MO) started in 2006 (Ministerial Order of 9 August 2012. Exceptional veterinary health measures concerning bovine tuberculosis, bovine and buffalo brucellosis, EBL and sheep/goat brucellosis in Calabria, Campania, Puglia and Sicily G.U. n. 212 del 11/09/2012).

National evaluation of the recent situation, the trends and sources of infection

Survival of *Brucella* in milk and milk products depends on storage temperature and for dairy products it also depends on the production technique used.

The main route of natural transmission of brucellosis is through the mucous membranes (conjunctival, oral, pharyngeal, intestinal, respiratory, vaginal and preputial mucosa), where the bacteria settle and hence penetrate the epithelial tissue of the host.

Humans become infected mainly following ingestion of unpasteurized milk and dairy products made with raw or unpasteurized milk, however common source of infection are also due to contact of conjunctiva or sores with infected tissues (abortions, placentas, etc.), inhalation of aerosol from infected tissues or during animal slaughtering or accidental inoculation of vaccine. Human-human transmission of infection is very rare.

Control of Brucellosis in Italy is based on surveillance activities, whose frequency is determined on the basis of the sanitary status of the Region or Province, in accordance with National legislation.

For the 4 regions (Campania, Calabria, Puglia and Sicily) the OM of the 09 August 2012, established the control of all cattle population in the 4 regions and the slaughtering of infected animals in a very short time, since confirmation of infection. This measure aims to eliminate the infection in a limited time, lowering the incidence and prevalence of the disease that in these regions is still high. In fact, in 2012, 254 strains of *Brucella abortus* 1 and 3, and 14 strains of *Brucella melitensis* 3 were isolated and typed in these regions.

In these four regions, following detection of *Brucella* in milk products for human consumption, It is believed that there is a real risk for humans to contract infection through contaminated food, as well as for farmers and slaughterhouses workers.

B. Brucella melitensis in goats

Control program/mechanisms

Recent actions taken to control the zoonoses

In Italy, brucellosis persists only in the southern regions, while almost all northern and central regions of the Country have reached the status of officially free territories. Considering the prevalence and incidence of brucellosis in cattle, buffaloes, sheep and goats registered in the southern regions of Campania, Calabria, Puglia and Sicily, a new Ministerial Order was issued in 2012 establishing extraordinary measures to further implement and complete eradication activities on brucellosis, already in place in compliance with the previous Ministerial Order (MO) started in 2006 (Ministerial Order of 9 August 2012 „Exceptional veterinary health measures concerning bovine tuberculosis, bovine and buffalo brucellosis, EBL and sheep/goat brucellosis in Calabria, Campania, Puglia and Sicily“ G.U. n. 212 del 11/09/2012).

National evaluation of the recent situation, the trends and sources of infection

In Italy, brucellosis persists only in the southern regions, while almost all northern and central regions of the Country have reached the status of officially free territories. Considering the prevalence and incidence of brucellosis in cattle, buffaloes, sheep and goats registered in the southern regions of Campania, Calabria, Puglia and Sicily, a new Ministerial Order was issued in 2012 establishing extraordinary measures to further implement and complete eradication activities on brucellosis, already in place in compliance with the previous Ministerial Order (MO) started in 2006 (Ministerial Order of 9 August 2012 „Exceptional veterinary health measures concerning bovine tuberculosis, bovine and buffalo brucellosis, EBL and sheep/goat brucellosis in Calabria, Campania, Puglia and Sicily“ G.U. n. 212 del 11/09/2012).

C. Brucella melitensis in sheep

Status as officially free of ovine brucellosis during the reporting year

Free regions

According to the Community legislation up to 19 april 2012 the following provinces/ regions are officially free from ovine and caprine brucellosis:

Bolzano
Arezzo
Cagliari
Nuoro
Sassari
Bergamo
Brescia
Como
Cremona
Lodi
Mantova
Milano
Pavia
Sondrio
Varese
Trento
Rieti
Viterbo
Firenze
Livorno
Lucca
Massa-Carrara
Pisa
Pistoia
Prato
Siena
Perugia
Terni
Grosseto
Ancona
Ascoli-Piceno
Macerata
Pesaro
Urbino
Alessandria
Adti
Biella
Cuneo
Novara
Torino
Verbania
Vercelli
Pecara

Friuli Venezia Giulia
Savona
Isernia
Roma
Latina
Veneto
Molise
Emilia Romagna
Val D'Aosta

Vaccination policy

In Italy there is in force a plan for the eradication of the disease, therefore vaccination is forbidden in the country. However, it was sought and obtained an exemption for the breeding of some provinces in Sicily, where to reduce the circulation of the bacterium, can be effective strategy of vaccinating sheep with Rev1.

Control program/mechanisms

Recent actions taken to control the zoonoses

Considering the prevalence and incidence of brucellosis in cattle, buffaloes, sheep and goats registered in the southern regions of Campania, Calabria, Puglia and Sicily, a new Ministerial Order was issued in 2012 establishing extraordinary measures to further implement and complete eradication activities on brucellosis, already in place in compliance with the previous Ministerial Order (MO) started in 2006 (Ministerial Order of 9 August 2012 $\hat{z}$ Exceptional veterinary health measures concerning bovine tuberculosis, bovine and buffalo brucellosis, EBL and sheep/goat brucellosis in Calabria, Campania, Puglia and Sicily $\hat{z}$ $\hat{z}$ G.U. n. 212 del 11/09/2012).

Suggestions to the European Union for the actions to be taken

There are many strains isolated and typed from cattle, buffalo, sheep and goats, but the National Reference lab did not reach strains isolated from man, probably because addressed to other laboratories in human medicine.

Unfortunately, we still did not start an exchange of information and strains between the cases of human brucellosis and the National reference lab to study the origin of the infection and possibly correlate outbreaks of ovine and caprine brucellosis with human cases.

National evaluation of the recent situation, the trends and sources of infection

Brucellosis is a bacterial disease that affects cattle, buffalo, sheep, goats, pigs, dogs, wild animals and even humans.

The current classification recognizes 6 species, *B. melitensis*, *B. abortus*, *B. suis*, *B. canis*, *B. neotomae* and *B. ovis*. Classification of *Brucella* strains isolated from cetaceans (*B. ceti* and *B. pinnipedialis*) and recently from common voles (*B. microti*) is still in progress.

Under natural conditions *Brucella* is resistant to drying and it can survive several weeks in the external environment, in the dust, in liquid manure and damp soil with low exposure to sunlight; Bacteria remain viable for longer time (2-3 months) in dairy products (butter, cheese, etc. .). Survival of *Brucella* in milk and milk products depends on storage temperature and for dairy products it also depends on the production technique used.

The main route of natural transmission of brucellosis is through the mucous membranes (conjunctival, oral, pharyngeal, intestinal, respiratory, vaginal and preputial mucosa), where the bacteria settle and hence penetrate the epithelial tissue of the host.

Ovine and caprine brucellosis is still present in the 4 Italian southern regions (Campania, Calabria, Puglia e Sicilia) where the MO 09.08.2012 was applied and where disease prevalence in some provinces reaches 6.8%. In 2012, 251 strains of *B. melitensis* were isolated and typed. The majority of the strains were isolated from the four infected regions in southern Italy, but several strains were also isolated in Molise region and some in Tuscany region. No strains of *B. melitensis* isolated from humans were typed,

probably because addressed to other human diagnostic laboratories.

Unfortunately, there is still a lack of a networking and reporting system between human cases brucellosis and the National Reference Centre for Brucellosis to better investigate the origin of the infection and possibly correlate outbreaks of ovine and caprine brucellosis with human cases.

Table Brucellosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Antelopes - zoo animal - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Badgers - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Bears - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Camels - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Cantabrian chamois - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	116	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	31	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	11	0			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	12	2	2		
Cattle (bovine animals) - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	75	43	19		
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			

Table Brucellosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Deer - wild - fallow deer - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Deer - wild - red deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Deer - wild - red deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	14	0			
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	10	0			
Deer - wild - roe deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	165	0			
Deer - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	32	0			
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Dogs - pet animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	11	2			
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	7	0			
Dogs - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	61	28			
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	3	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	22	0			
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	86	0			

Table Brucellosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	0			
Goats - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	61	39		34	
Hares - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	8	0			
Hares - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	5	0			
Lamas - zoo animal - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Mouflons - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	22	0			
Other animals - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	4	0			
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	4	0			
Other animals - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	1			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	21	0			
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	3	0			
Pigs - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	3	0			
Pyrenean chamois - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			

Table Brucellosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Rodents - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	21	0			
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	315	0			
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	13	2		2	
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	2	0			
Sheep - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	373	273		230	
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Solipeds, domestic - donkeys - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	52	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	8	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	169	2			
Water buffalos - farmed - at farm - Control and eradication programmes	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	Animal	258453	2378			

Table Brucellosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	109	0			
Wild boars - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	19	2			1
Wild boars - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	8	0			
Wild boars - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0			
Wild boars - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Wild boars - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	45	0			
Wild boars - wild - at processing plant - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	833	20			1
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	0			
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	660	14			
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	5	0			

	Brucella spp., unspecified
Antelopes - zoo animal - at farm - Monitoring	
Badgers - wild - unspecified - Monitoring	
Bears - wild - unspecified - Monitoring	

Table Brucellosis in other animals

	Brucella spp., unspecified
Camels - at farm - Monitoring	
Cantabrian chamois - unspecified - Survey - national survey	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at slaughterhouse - Survey - national survey	24
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations	
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	
Deer - wild - fallow deer - at farm - Monitoring	
Deer - wild - red deer - unspecified - Monitoring	

Table Brucellosis in other animals

	Brucella spp., unspecified
Deer - wild - red deer - unspecified - Survey - national survey	
Deer - wild - roe deer - unspecified - Monitoring	
Deer - wild - roe deer - unspecified - Survey - national survey	
Deer - wild - unspecified - Survey - national survey	
Dogs - pet animals - at farm - Clinical investigations	
Dogs - pet animals - at farm - Monitoring	2
Dogs - pet animals - at retail - Clinical investigations	
Dogs - pet animals - at retail - Survey - national survey	28
Foxes - wild - unspecified - Monitoring	
Goats - at farm - Clinical investigations	
Goats - at farm - Clinical investigations	
Goats - at farm - Survey - national survey	
Goats - at slaughterhouse - Survey - national survey	5
Hares - wild - unspecified - Monitoring	
Hares - wild - unspecified - Survey - national survey	

Table Brucellosis in other animals

	Brucella spp., unspecified
Lamas - zoo animal - at farm - Monitoring	
Marten - wild - unspecified - Monitoring	
Mouflons - wild - unspecified - Survey - national survey	
Other animals - unspecified - Monitoring	
Other animals - wild - unspecified - Monitoring	
Other animals - wild - unspecified - Survey - national survey	1
Pigs - at farm - Clinical investigations	
Pigs - at farm - Clinical investigations	
Pigs - at farm - Survey - national survey	
Pigs - unspecified - Monitoring	
Pyrenean chamois - wild - unspecified - Monitoring	
Rodents - wild - unspecified - Survey - national survey	
Sheep - at farm - Clinical investigations	
Sheep - at farm - Clinical investigations	
Sheep - at farm - Survey - national survey	
Sheep - at farm - Survey - national survey	

Table Brucellosis in other animals

	Brucella spp., unspecified
Sheep - at slaughterhouse - Survey - national survey	43
Sheep and goats - at farm - Clinical investigations	
Solipeds, domestic - donkeys - at farm - Survey - national survey	
Solipeds, domestic - horses - at farm - Clinical investigations	
Solipeds, domestic - horses - at farm - Survey - national survey	
Water buffalos - at farm - Clinical investigations	
Water buffalos - at farm - Clinical investigations	
Water buffalos - at farm - Survey - national survey	2
Water buffalos - farmed - at farm - Control and eradication programmes	2378
Wild animals - unspecified - Survey - national survey	
Wild boars - at farm - Clinical investigations	1
Wild boars - at farm - Clinical investigations	
Wild boars - at farm - Monitoring	
Wild boars - at farm - Survey - national survey	

Table Brucellosis in other animals

	Brucella spp., unspecified
Wild boars - at slaughterhouse - Survey - national survey	
Wild boars - wild - at processing plant - Monitoring	19
Wild boars - wild - unspecified - Monitoring	
Wild boars - wild - unspecified - Survey - national survey	14
Wolves - wild - unspecified - Monitoring	

Table Bovine brucellosis - data on herds - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	Indicators		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	4452	2424	2357	3	1	0	0	97.24	.13	.04
Basilicata	2648	2584	2582	28	16	1	3.57	99.92	1.08	.62
Calabria	7111	5653	5641	96	70	2	2.08	99.79	1.7	1.24
Campania	11289	8162	8076	87	64	2	2.3	98.95	1.08	.79
Lazio	1999	1588	1588	0	0	0	N.A.	100	0	0
Liguria	843	620	619	0	0	0	N.A.	99.84	0	0
Molise	859	576	576	6	3	0	0	100	1.04	.52
Puglia	4005	3723	3723	80	61	0	0	100	2.15	1.64
Sicilia	10280	9956	9893	276	237	0	0	99.37	2.79	2.4
Total : ¹⁾	43486	35286	35055	576	452	5	.87	99.35	1.64	1.29

Comments:

¹⁾ 0

Table Bovine brucellosis - data on herds - Community co-financed eradication programmes

Table Ovine or Caprine brucellosis - data on herds - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	Indicators		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	5179	5127	3170	0	0	0	N.A.	61.83	0	0
Basilicata	6462	6460	6405	6	3	2	33.33	99.15	.09	.05
Calabria	8415	8250	7803	85	59	1	1.18	94.58	1.09	.76
Campania	6661	6482	6317	58	45	4	6.9	97.45	.92	.71
Lazio	1632	1632	1632	0	0	0	N.A.	100	0	0
Liguria	1980	1866	1866	0	0	0	N.A.	100	0	0
Puglia	3684	3677	3677	15	14	4	26.67	100	.41	.38
Sicilia	8818	8752	8561	478	268	18	3.77	97.82	5.58	3.13
Total : ¹⁾	42831	42246	39431	642	389	29	4.52	93.34	1.63	.99

Comments:

¹⁾ 0

Table Bovine brucellosis - data on animals - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		Indicators	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	55493	38283	35662	35662	60	60	60	93.15	.17
Basilicata	80360	65114	65062	65062	71	68	92	99.92	.11
Calabria	121745	86767	85613	85613	353	351	352	98.67	.41
Campania	192765	135661	135175	135175	589	588	602	99.64	.44
Lazio	69823	51308	51308	51308	0	0	0	100	0
Liguria	7985	5224	5218	5218	0	0	0	99.89	0
Molise	16449	11314	11314	11314	38	38	38	100	.34
Puglia	169113	126662	126662	126662	1061	1061	1095	100	.84
Sicilia	384387	280140	279132	279132	1152	979	1191	99.64	.41
Total : ¹⁾	1098120	800473	795146	795146	3324	3145	3430	99.33	.42

Comments:

¹⁾ 0

Table Ovine or Caprine brucellosis - data on animals - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		Indicators	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	179431	175639	138441	138441	0	0	0	78.82	0
Basilicata	374437	295613	294336	189885	16	16	153	99.57	.01
Calabria	435758	384146	362747	362747	458	458	458	94.43	.13
Campania	230523	213776	210811	210811	1617	1485	1792	98.61	.77
Lazio	72769	48358	48358	48358	0	0	0	100	0
Liguria	16351	15670	15670	14825	0	0	0	100	0
Puglia	363247	338113	338113	338113	1217	1217	1528	100	.36
Sicilia	1100763	938143	923813	923813	20664	15681	18463	98.47	2.24
Total : ¹⁾	2773279	2409458	2332289	2226993	23972	18857	22394	96.8	1.03

Comments:

¹⁾ 0

Table Bovine brucellosis - data on status of herds at the end of the period - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Status of herds and animals under the programme													
	Total number of herds and animals under the programme		Unknown		Not free or not officially free				Free or officially free suspended		Free		Officially free	
					Last check positive		Last check negative							
	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	2424	38283	0	0	0	0	154	698	1	2	0	0	2269	37583
Basilicata	2584	65114	2	52	5	172	15	519	1	85	0	0	2561	64286
Calabria	5626	86436	6	41	12	608	343	5150	13	407	0	0	5252	80230
Campania	8107	137519	86	481	30	1226	299	3976	0	0	0	0	7692	131836
Lazio	1588	51308	16	156	0	0	0	0	7	206	0	0	1565	50946
Liguria	620	5224	0	0	0	0	0	0	1	6	0	0	619	5218
Molise	576	11314	0	0	4	92	2	14	0	0	0	0	570	11208
Puglia	3723	126662	0	0	19	1235	36	1511	1	405	0	0	3667	123511
Sicilia	9658	277467	0	0	39	2070	322	10872	23	1170	14	182	9260	263173
Total : ¹⁾	34906	799327	110	730	109	5403	1171	22740	47	2281	14	182	33455	767991

Comments:

¹⁾ 0

Table Bovine brucellosis - data on status of herds at the end of the period - Community co-financed eradication programmes

Table Ovine or Caprine Brucellosis in countries and regions that do not receive Community co-financing for eradication programme

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing		Officially free herds		Infected herds		Surveillance			Investigations of suspect cases				
	Herds	Animals	Number of herds	%	Number of herds	%	Number of herds tested	Number of animals tested	Number of infected herds	Number of animals tested with serological blood tests	Number of animals positive serologically	Number of animals examined microbio logically	Number of animals positive microbio logically	Number of suspended herds
Abruzzo	1327	23483	1327	100	0	0	1327	23483	0	0	0	0	0	0
Emilia-Romagna	2976	74455	2975	99.97	0	0	958	34476	0	0	0	3	0	0
Friuli-Venezia Giulia	838	17597	838	100	0	0	459	4799	0	0	0	0	0	0
Lazio	5163	668629	5163	100	0	0	1765	86690	0	0	0	0	0	0
Liguria	850	7189	850	100	0	0	238	3680	0	0	0	0	0	0
Lombardia	12368	217248	12368	100	0	0	5952	79618	0	0	0	0	0	0
Marche	3091	140863	3091	100	0	0	1507	68853	0	0	0	0	0	0
Molise	3519	91471	3515	99.89	4	.11	2417	64713	4	42818	7	0	0	2
Piemonte	8457	178933	8457	100	0	0	2007	60808	0	4	4	3	0	1
Provincia Autonoma Bolzano/Bozen	3921	71013	3921	100	0	0	3544	23122	0	43	0	0	0	2
Provincia Autonoma Trento	1133	33257	1133	100	0	0	1128	33253	0	10	0	0	0	0
Sardegna	15570	3490651	15746	101.13	0	0	2223	127464	0	34386	8	8	0	1
Toscana	7192	476688	7189	99.96	1	.01	1477	54960	3	140	13	14	2	0

Table Ovine or Caprine Brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Umbria	3264	127060	3264	100	0	0	984	20542	0	0	0	0	0	0
Valle d'Aosta/Vallée d'Aoste	516	7138	516	100	0	0	302	2557	0	2557	0	4	0	0
Veneto	2455	57106	2455	100	0	0	1888	45277	0	0	0	0	0	0
Total : ¹⁾	72640	5682781	72808	100.23	5	.01	28176	734295	7	79958	32	32	2	6

Comments:

¹⁾ 0

Table Bovine brucellosis in countries and regions that do not receive Community co-financing for eradication programme

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing bovine		Officially free herds		Infected herds		Surveillance						Investigations of suspect cases								
							Serological tests			Examination of bulk milk			Information about			Epidemiological investigation					
	Herds	Animals	Number of herds	%	Number of herds	%	Number of bovine herds tested	Number of animals tested	Number of infected herds	Number of bovine herds tested	Number of animals or pools tested	Number of infected herds	Number of notified abortions whatever cause	Number of isolations of Brucella infection	Number of abortions due to Brucella abortus	Number of animals tested with serological blood tests	Number of suspended herds	Number of positive animals		Number of animals examined microbiologically	Number of animals positive microbiologically
																		Sero logically	BST		
Abruzzo	740	12400	740	100	0	0	550	6106	0	0	0	0	0	0	0	0	0	0	0	0	0
Emilia-Romagna	6548	502284	6548	100	0	0	885	14560	0	3609	6731	0	154	0	0	633	1	6	0	15	0
Friuli-Venezia Giulia	1449	59386	1449	100	0	0	300	5948	0	180	243	0	1	0	0	0	0	0	0	0	0
Lazio	5317	138529	5317	100	0	0	2801	77285	0	0	0	0	0	0	0	0	0	0	0	0	0
Liguria	303	4256	303	100	0	0	100	2728	0	0	0	0	0	0	0	0	0	0	0	0	0
Lombardia	10556	895477	10556	100	0	0	5238	340387	0	2735	264614	0	594	0	0	290	33	0	0	0	0
Marche	1764	30076	1764	100	0	0	1209	23737	0	0	0	0	0	0	0	0	0	0	0	0	0
Molise	1430	17473	1430	100	0	0	1430	17473	1	0	0	0	0	0	0	14681	1	2	0	2	0
Piemonte	10434	335407	10433	99.99	0	0	2373	56858	0	545	1733	0	94	0	0	127	9	11	0	10	0
Provincia Autonoma Bolzano/Bozen	8181	133033	8181	100	0	0	3237	13181	0	4944	4957	0	29	0	0	333	20	0	0	0	0
Provincia Autonoma Trento	1387	39457	1387	100	0	0	1358	33060	0	0	0	0	44	0	0	46	1	3	0	0	0
Puglia	265	7442	265	100	0	0	265	4025	0	0	0	0	0	0	0	0	0	0	0	0	0

Table Bovine brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Sardegna	8882	257846	8899	100.19	0	0	2060	29350	0	52	195	0	10	0	0	7	0	0	0	0
Toscana	2112	49843	2112	100	0	0	760	12395	1	20	40	0	2	0	0	38	1	1	0	1
Umbria	1718	33748	1718	100	0	0	772	13788	0	0	0	0	0	0	0	50	0	4	0	0
Valle d'Aosta/Vallée d'Aoste	1100	34598	1100	100	0	0	1076	26733	0	0	0	0	6	0	0	6	0	0	0	6
Veneto	6408	188107	6408	100	0	0	908	8700	0	635	44492	0	328	0	0	0	0	0	0	0
Total : ¹⁾	68594	2739362	68610	100.02	0	0	25322	686314	2	12720	323005	0	1262	0	0	16211	66	27	0	34

Comments:

¹⁾ 0

Table Ovine or Caprine brucellosis - data on status of herds at the end of the period - Community co-financed eradication programmes

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Status of herds and animals under the programme													
	Total number of herds and animals under the programme		Unknown		Not free or not officially free				Free or officially free suspended		Free		Officially free	
					Last check positive		Last check negative							
	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	5127	172739	602	5129	0	0	1142	30462	0	0	0	0	3383	137148
Basilicata	6460	295613	55	1277	1	450	5	1117	0	0	0	0	6399	292769
Calabria	8212	384222	33	442	24	3493	293	19023	115	1697	0	0	7747	359567
Campania	6440	214385	165	2965	21	4162	244	4727	0	0	0	0	6010	202531
Lazio	1632	48358	0	0	0	0	0	0	0	0	0	0	1632	48358
Liguria	1866	15670	0	0	0	0	0	0	0	0	0	0	1866	15670
Puglia	3677	338113	0	0	0	0	1	374	3	1120	0	0	3673	336619
Sicilia	8640	927969	0	0	196	60947	420	69697	43	7632	115	13426	7866	776267
Total : ¹⁾	42054	2397069	855	9813	242	69052	2105	125400	161	10449	115	13426	38576	2168929

Comments:

¹⁾ 0

2.7 YERSINIOSIS

2.7.1 General evaluation of the national situation

A. Yersinia enterocolitica general evaluation

History of the disease and/or infection in the country

Yersinia enterocolitica in Italy is rarely involved in food borne transmission . Furthermore data on human case are not available and its incidence is not known. The epidemiology of the infection , the distribution of serotypes and the importance of transmission between animal, food and man need to be more fully understood.

National evaluation of the recent situation, the trends and sources of infection

National data regarding the control activities for *Y. Enterocolitica* contamination in animal and food are still very poor and not reflect the real situation. In fact were taken a few hundreds of animal and food samples. Official control and control in research projects or other studies in animal showed a contamination of *Y. Enterocolitica* of the 4.06%, principally in sheep and cattle. *Y. pseudotuberculosis* is isolated in wild animals. Official control in food showed a poor contamination (1,33%) in meat, vegetable products and cheese but they are represented by a very small number of sample to express opinion . Differentiation from non pathogenic and pathogenic strains are not reported. In a research study at the slaughterhouse , tonsils were taken from 255 pigs (tonsil). The 30.9% of samples were positive for *Y. enterocolitica* (88.6% serotype 3 and 11.4% serotype 9) and 1.2% for *Y. pseudotuberculosis*. All the strains of *Y. enterocolitica* had *ystA*, *ail*, *inv*, and the 72% also *hemR* virulence gene.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

The importance of *Yersinia enterocolitica* in contamination routes is still not clear. Official data about prevalence of *Y. enterocolitica* in farms are not available and a number of different food can vehicle this zoonotic agents to consumers: vegetables , fresh meat, minced meat.

Recent actions taken to control the zoonoses

There is no action taken in Italy for the control of this zoonosis.

Suggestions to the European Union for the actions to be taken

The epidemiology of the infection, the distribution of serotypes and the importance of transmission between animal and men need to be more fully understood. Coordinated monitoring plans are necessary in the countries.

2.7.2 Yersinia in foodstuffs

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	1	1	
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Fish - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Fruits - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits and vegetables - products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	1	
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	6	0		
Meat from bovine animals - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat products - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling	environmental sample	Domestic	Single	25 Gram	3	0		
Meat from deer (venison) - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Meat from horse - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	1	1	
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	28	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	17	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	18	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	1	1	
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	26	0		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	20	0		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - minced meat - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from poultry, unspecified - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	13	0		
Meat from rabbit - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from rabbit - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from sheep - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Meat from sheep - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from wild boar - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from wild boar - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	9	0		
Meat from wild boar - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	35	0		
Meat from wild game - land mammals - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from wild game - land mammals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Milk, cows' - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	23	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		

Table Yersinia in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	16	0		
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	13	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	2	2	

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Cheeses made from cows' milk - at processing plant - Surveillance				
Cheeses made from cows' milk - fresh - at processing plant - Surveillance				
Cheeses made from cows' milk - fresh - at retail - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance				
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Crustaceans - at retail - Surveillance				
Dairy products (excluding cheeses) - at retail - Surveillance				
Dairy products, unspecified - at processing plant - Surveillance				
Fish - at processing plant - Surveillance				
Fish - at retail - Surveillance				
Fish - at retail - Surveillance				
Fishery products, unspecified - at processing plant - Surveillance				
Fruits - at retail - Surveillance				
Fruits and vegetables - products - at catering - Surveillance				
Fruits and vegetables - products - at retail - Surveillance				
Meat from bovine animals - fresh - at processing plant - Surveillance				
Meat from bovine animals - fresh - at processing plant - Surveillance				
Meat from bovine animals - fresh - at processing plant - Survey - national survey				
Meat from bovine animals - fresh - at retail - Survey - national survey				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Meat from bovine animals - fresh - at slaughterhouse - Surveillance				
Meat from bovine animals - meat preparation - at catering - Surveillance				
Meat from bovine animals - meat products - at processing plant - Survey - national survey				
Meat from bovine animals - offal - at slaughterhouse - Surveillance				
Meat from deer (venison) - fresh - at processing plant - Surveillance				
Meat from horse - fresh - at retail - Surveillance				
Meat from other animal species or not specified - fresh - at catering - Unspecified				
Meat from other animal species or not specified - fresh - at processing plant - Surveillance				
Meat from other animal species or not specified - fresh - at processing plant - Surveillance				
Meat from other animal species or not specified - fresh - at retail - Surveillance				
Meat from other animal species or not specified - meat preparation - at catering - Surveillance				
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance				
Meat from other animal species or not specified - meat preparation - at retail - Surveillance				
Meat from other animal species or not specified - meat products - at catering - Surveillance				
Meat from other animal species or not specified - meat products - at catering - Unspecified				
Meat from other animal species or not specified - meat products - at processing plant - Surveillance				
Meat from other animal species or not specified - meat products - at processing plant - Surveillance				
Meat from other animal species or not specified - meat products - at retail - Surveillance				
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance				
Meat from other animal species or not specified - minced meat - at retail - Surveillance				
Meat from other animal species or not specified - offal - at processing plant - Surveillance				
Meat from other animal species or not specified - offal - at processing plant - Surveillance				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Meat from other animal species or not specified - offal - at retail - Surveillance				
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance				
Meat from pig - fresh - at processing plant - Surveillance				
Meat from pig - fresh - at processing plant - Surveillance				
Meat from pig - fresh - at retail - Surveillance				
Meat from pig - fresh - at slaughterhouse - Surveillance				
Meat from pig - meat preparation - at processing plant - Surveillance				
Meat from pig - meat products - at processing plant - Surveillance				
Meat from pig - meat products - at retail - Surveillance				
Meat from pig - minced meat - at processing plant - Surveillance				
Meat from poultry, unspecified - fresh - at processing plant - Surveillance				
Meat from poultry, unspecified - fresh - at retail - Surveillance				
Meat from poultry, unspecified - fresh - at slaughterhouse - Surveillance				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Meat from poultry, unspecified - offal - at processing plant - Surveillance				
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance				
Meat from rabbit - fresh - at slaughterhouse - Surveillance				
Meat from rabbit - offal - at slaughterhouse - Surveillance				
Meat from sheep - fresh - at processing plant - Surveillance				
Meat from sheep - fresh - at slaughterhouse - Surveillance				
Meat from turkey - fresh - at processing plant - Surveillance				
Meat from wild boar - fresh - at catering - Surveillance				
Meat from wild boar - fresh - at processing plant - Surveillance				
Meat from wild boar - fresh - at retail - Surveillance				
Meat from wild game - land mammals - fresh - at processing plant - Surveillance				
Meat from wild game - land mammals - fresh - at retail - Surveillance				
Milk, cows' - at processing plant - Surveillance				

Table Yersinia in food

	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Milk, cows' - at retail - Survey - national survey				
Molluscan shellfish - at retail - Surveillance				
Other processed food products and prepared dishes - pasta - at catering - Surveillance				
Other processed food products and prepared dishes - unspecified - at catering - Surveillance				
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance				
Other processed food products and prepared dishes - unspecified - at retail - Surveillance				
Vegetables - at catering - Surveillance				
Vegetables - at catering - Survey - national survey				
Vegetables - at processing plant - Surveillance				
Vegetables - at retail - Surveillance				

2.7.3 Yersinia in animals

Table Yersinia in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis	Yersinia spp., unspecified
All animals - pet animals - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	20	0			
All animals - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
All animals - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	6	0			
Badgers - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Birds - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	4	0			
Cantabrian chamois - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	16	0			
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0			
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	62	15	15		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	15	0			
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0			

Table Yersinia in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis	Yersinia spp., unspecified
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	48	3	3		
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Animal	1	0			
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	1	0			
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Deer - wild - roe deer - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	81	9	5		4
Deer - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	17	1	1		
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	8	1	1		
Dogs - stray dogs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	4	0			
Dogs - stray dogs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	19	0			
Foxes - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Gallus gallus (fowl) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Gallus gallus (fowl) - mixed flocks/holdings - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			

Table Yersinia in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis	Yersinia spp., unspecified
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	1			1
Hamsters - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Hares - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	10	2		2	
Hedgehogs - wild - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Hedgehogs - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3	0			
Monkeys - zoo animal - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Monkeys - zoo animal - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Pigeons - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Pigeons - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Pigeons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2	0			
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	1	0			
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	139	0			
Pigs - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	herd/flock	1	0			
Rabbits - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			

Table Yersinia in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis	Yersinia spp., unspecified
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Sheep - at farm - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	1	1	1		
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	5	0			
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	84	23	23		
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	87	0			
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	2	0			
Squirrels - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	46	0			
Swans - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	1	0			
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	3	0			
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	13	1	1		
Wild boars - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	15	0			
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	2	0			
Wild boars - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	5	0			

Table Yersinia in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberculosis	Yersinia spp., unspecified
Wild boars - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	21	2	2		
Wild boars - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	108	4	4		
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	25	0			
Zoo animals, all - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	9	0			

	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
All animals - pet animals - at farm - Survey - national survey			
All animals - pet animals - at retail - Clinical investigations			
All animals - pet animals - at retail - Survey - national survey			
Badgers - wild - unspecified - Survey - national survey			
Birds - pet animals - at farm - Clinical investigations			
Birds - wild - unspecified - Clinical investigations			
Cantabrian chamois - unspecified - Survey - national survey			

Table Yersinia in animals

	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Cats - pet animals - at retail - Clinical investigations			
Cattle (bovine animals) - at farm - Clinical investigations			
Cattle (bovine animals) - at farm - Clinical investigations			
Cattle (bovine animals) - at farm - Monitoring			
Cattle (bovine animals) - at farm - Monitoring			
Cattle (bovine animals) - at farm - Survey - national survey			
Cattle (bovine animals) - at farm - Unspecified			
Cattle (bovine animals) - at slaughterhouse - Monitoring			
Deer - wild - roe deer - unspecified - Monitoring			
Deer - wild - roe deer - unspecified - Survey - national survey			
Deer - wild - unspecified - Survey - national survey			
Dogs - pet animals - at farm - Clinical investigations			
Dogs - pet animals - at retail - Clinical investigations			
Dogs - stray dogs - at farm - Clinical investigations			

Table Yersinia in animals

	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Dogs - stray dogs - at farm - Survey - national survey			
Foxes - wild - unspecified - Survey - national survey			
Gallus gallus (fowl) - at farm - Clinical investigations			
Gallus gallus (fowl) - mixed flocks/holdings - at farm - Clinical investigations			
Goats - at farm - Clinical investigations			
Hamsters - pet animals - at retail - Clinical investigations			
Hares - wild - unspecified - Clinical investigations			
Hedgehogs - wild - at farm - Survey - national survey			
Hedgehogs - wild - unspecified - Survey - national survey			
Monkeys - zoo animal - at farm - Clinical investigations			
Monkeys - zoo animal - at farm - Survey - national survey			
Pigeons - at farm - Survey - national survey			
Pigeons - unspecified - Clinical investigations			
Pigeons - unspecified - Monitoring			

Table Yersinia in animals

	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Pigs - at farm - Clinical investigations			
Pigs - at farm - Survey - national survey			
Pigs - at slaughterhouse - Monitoring			
Pigs - at slaughterhouse - Monitoring			
Rabbits - at farm - Clinical investigations			
Sheep - at farm - Clinical investigations			
Sheep - at farm - Monitoring			
Sheep - at farm - Monitoring			
Sheep - at farm - Survey - national survey			
Sheep and goats - at farm - Clinical investigations			
Sheep and goats - at farm - Survey - national survey			
Solipeds, domestic - horses - at farm - Clinical investigations			
Solipeds, domestic - horses - at farm - Survey - national survey			
Squirrels - wild - unspecified - Survey - national survey			
Swans - at farm - Survey - national survey			
Water buffalos - at farm - Clinical investigations			

Table Yersinia in animals

	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - unspecified
Wild animals - unspecified - Survey - national survey			
Wild boars - at slaughterhouse - Clinical investigations			
Wild boars - at slaughterhouse - Monitoring			
Wild boars - at slaughterhouse - Survey - national survey			
Wild boars - unspecified - Clinical investigations			
Wild boars - unspecified - Monitoring			
Wild boars - unspecified - Survey - national survey			
Zoo animals, all - at farm - Clinical investigations			

2.8 TRICHINELLOSIS

2.8.1 General evaluation of the national situation

A. Trichinellosis general evaluation

History of the disease and/or infection in the country

From the fifties up to 2011, 1,462 *Trichinella* infections in humans have been documented in Italy. Of them, 123 cases (7 outbreaks) were caused by the consumption of uncontrolled meat from hunted wild boars, 11 cases (2 outbreaks) for the consumption of meat from hunted foxes, 110 cases (3 outbreaks) from uncontrolled meat from reared wild boars, 169 cases (10 outbreaks) for the consumption of pork from free-ranging or backyard Italian pigs, 11 cases (2 outbreaks) for the consumption of infected pork imported from Romania, and 1,038 cases (7 outbreaks) for the consumption of meat from horses imported from Eastern Europe. In the same period of time, *Trichinella* larvae have been detected in: 28 free-ranging or backyard Italian pigs, 15 wild boars hunted in Italy, 3 farmed wild boars, and in 8 horses imported from Eastern Europe. The etiological agent of *Trichinella* in wild animals is *T. britovi*, whereas most of *Trichinella*-infected animals imported from abroad were infected with *T. spiralis*. *Trichinella pseudospiralis* has been detected in a hunted wild boar of the Emilia Romagna region and in three farmed wild boars of the Friuli region.

National evaluation of the recent situation, the trends and sources of infection

Today in Italy, *Trichinella britovi* is circulating in wild carnivores (foxes, wolves and mustelids) with a prevalence lower than 0.5%. In the wild boar population, the prevalence is lower than 0.1%. Furthermore, *Trichinella*-positive animals have been detected only in mountain areas above 500 m asl. Among *Trichinella*-susceptible livestock of Italy, this parasite has been detected only in free-ranging or backyard Italian pigs, i.e. animals in contact with the sylvatic cycle. Never, *Trichinella* infection has been detected in pigs or other susceptible animal reared under controlled housing conditions, never these animals were the source of infection for humans. Since *T. britovi* is less infective for swine, rats and humans than *T. spiralis*, the risk for Italian pigs to acquire this infection is quite low. A *T. britovi* focus in free-ranging or backyard pigs comes to the end within one pig generation. From 2010, *T. pseudospiralis* has been detected for the first time in a hunted wild boar of the Emilia Romagna region and in three farmed wild boars of the Friuli region (2 in 2010 and 1 in 2012). Since *T. pseudospiralis* is more adapted to swine than *T. britovi* and, furthermore, it infects birds besides mammals, this *Trichinella* species should be carefully monitored in Italy.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

The prevalence of *Trichinella* infection in domestic pigs reared in Italy can be considered as negligible. In fact, between 1959 and 2012, about 540 million pigs have been slaughtered (about 10 million/year) and only 37 pigs (27 detected at the slaughterhouse and 10 which were the source of infection for humans) were infected (prevalence 0.000006%). Furthermore, all the 37 infected pigs were free-ranging or backyard animals, which represent only a very low percentage of pigs reared in Italy. In 2012, *Trichinella* parasites have been detected in 1 free-ranging pig of the Orgosolo municipality (Nuoro province, Sardinia region). In 2012, *Trichinella* larvae have been detected in 1 hunted wild boar (Tuscany region) which was the source of infection for humans and in one farmed wild boar (Friuli region). Furthermore in 2012, *Trichinella* larvae have been detected in 8 wolves, in 14 red foxes and in 1 stone marten.

Recent actions taken to control the zoonoses

Since 2006, in agreement with the EU regulation 2075/2005, the number of *Trichinella*-susceptible animals (both domestic and sylvatic) tested for *Trichinella* has been greatly increased. Furthermore, animals have been tested with validated methods. The personnel performing the tests has been trained and a number of laboratories (both public and private) participate to proficiency tests. It follows that, the prevalence of infection detected in the last six years are close to the true epidemiological situation of *Trichinella* in domestic and sylvatic animals of Italy.

Suggestions to the European Union for the actions to be taken

It is suggested to switch *Trichinella* control from pigs reared under controlled conditions to free-ranging and backyard pigs only even if these animals do not reach the market but they are consumed by the owners and their relatives and friends. At the same time, all hunted *Trichinella*-susceptible animals for human consumption should be tested even if these animals do not reach the market but they are consumed by the hunters and their relatives and friends.

2.8.2 Trichinellosis in humans

A. Trichinellosis in humans

Reporting system in place for the human cases

Trichinellosis in humans is a notifiable disease in Italy.

Case definition

A case of trichinellosis in humans is a person with a muscle biopsy positive for *Trichinella* larvae and/or with a positive serology using a highly specific serological test which uses excretory/secretory antigens.

Diagnostic/analytical methods used

Detection of anti-*Trichinella* IgG in the human serum by a validated ELISA using excretory/secretory antigens. ELISA-positive sera are confirmed by a validated western blot.

Notification system in place

Medical doctor who made the diagnosis of trichinellosis fill in a form and send it to the Health Regional Service

History of the disease and/or infection in the country

From the fifties up to 2011, 1,458 *Trichinella* infections in humans have been documented in Italy. Of them, 129 cases (7 outbreaks) were caused by the consumption of uncontrolled meat from hunted wild boars, 11 cases (2 outbreaks) for the consumption of meat from hunted foxes, 111 cases (3 outbreaks) from uncontrolled meat from reared wild boars, 169 cases (10 outbreaks) for the consumption of pork from free-ranging or backyard Italian pigs, 11 cases (2 outbreaks) for the consumption of infected pork imported from Romania, and 1,038 cases (7 outbreaks) for the consumption of meat from horses imported from Eastern Europe. In 2012, 34 cases of trichinellosis have been diagnosed for the consumption of raw sausages made with pork from a hunted wild boar (Fosciandora municipality, Lucca province, Tuscany region) and two persons who acquired the infection for the consumption of raw sausages in Croatia and Romania and then developed the disease in Italy.

Results of the investigation

On November 2012, hunters, their relatives and friends consumed raw or semi-raw sausages made with pork from a wild boar hunted in the Fosciandora municipality, Lucca province, Tuscany region. Out of 36 people who had consumed the sausages, 34 were infected. No one was hospitalized.

Description of the positive cases detected during the reporting year

Out of 34 cases of trichinellosis caused by the consumption of sausages made with pork from a hunted wild boar, 32 cases were symptomatic and two cases were asymptomatic. No person was hospitalized.

National evaluation of the recent situation, the trends and sources of infection

The incidence of trichinellosis in Italian human population is extremely low and, since the improvement of the detection of *Trichinella* infection in horses, the number of cases has been strongly reduced. The last cases of trichinellosis were caused for the consumption of game from non controlled hunted wild boars or from non-controlled free-ranging or backyard pigs.

Relevance as zoonotic disease

Since this zoonosis is extremely rare in humans of Italy, physicians do not recognise it immediately. Consequently the time between the infection and the diagnosis is frequently long and when the treatment is established, it shows a low efficacy against larvae already protected by the collagen cyst in the muscle cells.

2.8.3 Trichinella in animals

A. Trichinella in horses

Monitoring system

Sampling strategy

All horses slaughtered for human consumption have been tested for *Trichinella* according to the Commission regulation 2075/2005. Most of these horses originated from abroad, both EU and third countries.

Muscle samples from *Trichinella*-preferential muscles (according to the Commission regulation 2075/2005) are collected from the horse carcass immediately after slaughtering from all slaughtered horses, by the slaughterhouse personnel. *Trichinella*-infected horses do not show any clinical sign even if they harbour a very high worm burden. The sampling is part of the permanent monitoring scheme as requested by the Commission regulation 2075/2005.

Methods of sampling (description of sampling techniques)

Muscle samples are collected from all slaughtered horses. Muscle samples from lingual, jaw muscle or from the diaphragm pillars. The sample muscle is cut from the carcass by a knife, then the muscle sample is preserved on a tray marked off with the horse code or in a plastic envelop with the horse code. The tray or the envelops with the samples are sent to the laboratory for testing.

Case definition

The sample is considered positive if one or more *Trichinella* larvae are detected after artificial digestion.

Diagnostic/analytical methods used

Since all the *Trichinella*-infected horse detected so far in Italy, originated from abroad, no control strategies can be developed.

Results of the investigation including the origin of the positive animals

Trichinella larvae have been not detected in horses slaughtered in Italy in 2012

Control program/mechanisms

The control program/strategies in place

Since all the *Trichinella*-infected horses originated from abroad and the test sensitivity resulted to be very high, no action has taken to control this zoonosis in horses.

Recent actions taken to control the zoonoses

No one

Suggestions to the European Union for the actions to be taken

Even if *Trichinella*-infection in horses is extremely rare (less than 1 positive/300,000 slaughtered horses), an infected horse can be the source of hundred of infection in humans, consequently it is extremely important to continue to monitor all horses slaughtered for human consumption and in particular those originating from Eastern Europe (e.g. Poland, Serbia, Romania)

Measures in case of the positive findings or single cases

According to the Commission Regulation 2075/2005, information on *Trichinella* infected horses are immediately provided to the EU Commission

Notification system in place

According to the Commission Regulation 2075/2005, information on *Trichinella* infected horses are immediately provided to the EU Commission

Additional information

Liciardi M, Marucci G, Addis G, Ludovisi A, Gomez Morales MA, Deiana B, Cabaj W, Pozio, E., 2009. *Trichinella britovi* and *Trichinella spiralis* mixed infection in a horse from Poland. *Vet Parasitol.* 161, 345-348.

B. Trichinella in pigs

Number of officially recognised Trichinella-free holdings

At the end of 2012 out of 34.445 pig holdings, 1237 holdings (3.59%) of 13 Italian regions and one autonomous province, have been recognised as Trichinella-free.

Categories of holdings officially recognised Trichinella-free

Holdings following the 2075/2005 requirements to be recognized as Trichinella free.

Officially recognised regions with negligible Trichinella risk

No region has been recognised as Trichinella free so far.

Monitoring system

Sampling strategy

General

All slaughtered pigs are tested according to the EU regulation 2075/2005.

Muscle samples are collected from preferential muscles according to the EC regulation 2075/2005

Methods of sampling (description of sampling techniques)

General

Muscle samples will be collected from the diaphragm pillars. In the absence of diaphragm pillars, a specimen of twice the size 2 g (or 4 g in the case of breeding sows and boars) is to be taken from the rib part or the breastbone part of the diaphragm, or from the jaw muscle, tongue or abdominal muscles.

Case definition

General

A pig is considered to be infected with Trichinella larvae when at least one larva is detected in the muscles after digestion and the larva is identified as belonging to the genus Trichinella at the National Reference Laboratory for Trichinella.

Diagnostic/analytical methods used

General

The Magnetic stirrer method for pooled sample digestion, the mechanically assisted pooled sample digestion method/sedimentation technique or the automatic digestion method for pooled samples of up to 35 g are used to detect Trichinella larvae in pig muscle tissues.

Preventive measures in place

Most of domestic pigs are reared under controlled housing conditions in integrated production systems according to the 2075/2005

Control program/mechanisms

The control program/strategies in place

It is the control system reported in the Annex IV of the EC regulation 2075/2005

Recent actions taken to control the zoonoses

Wildlife (wild boars, foxes and other carnivores) monitoring. Establishment of a fence around the pigsty to avoid the contacts between wild animals and pigs living indoor.

Suggestions to the European Union for the actions to be taken

Strong reduce of the control on pigs from controlled housing conditions in integrated production systems
Increase of the controls on free-ranging and backyard pigs independently if they are for the market or for the consumption from the pig owner.

Measures in case of the positive findings or single cases

An epidemiological investigation is put in place to identify the source of infection, the type of breeding, to identify the etiological agent at the species level, and to destroy the infected carcass.

The contingency plan in place

In 2012, no emergency control plan has been put in place for the presence of *Trichinella* infection in pigs.

Results of the investigation including description of the positive cases and the verification of the *Trichinella* species

No information is available at the country level

National evaluation of the recent situation, the trends and sources of infection

Since *Trichinella* infection has been detected only in very few free-ranging or backyard pigs (37 animals) from 1959 when the investigation became mandatory in Italy, there are strong epidemiological evidence which support that pigs from controlled housing conditions in integrated production systems, i.e. most of pigs reared in Italy, are *Trichinella*-free.

Table Trichinella in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified	T. britovi
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	12	0			
Badgers - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	6	0			
Badgers - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	48	0			
Bears - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Bears - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	4	0			
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	70	0			
Cantabrian chamois - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1	0			
Deer - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	6	0			
Falcons - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	8	0			
Foxes - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	43	0			
Foxes - wild - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	5	0			
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	2054	5		1	4
Foxes - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1303	5		5	
Hedgehogs - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	3	0			
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	4	1			1

Table Trichinella in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified	T. britovi
Marten - wild - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	1	0			
Other animals - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	6	0			
Pigs - breeding animals - raised under controlled housing conditions - sows - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	3202	0			
Pigs - fattening pigs - raised under controlled housing conditions - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	9695873	0			
Pigs - fattening pigs - unspecified - at farm - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	13114	0			
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	3535	0			
Solipeds, domestic - donkeys - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	157	0			
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	32158	0			
Wild animals - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	78	0			
Wild animals - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	316	0			
Wild animals - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	137	0			
Wild boars - at farm - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	84	0			

Table Trichinella in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified	T. britovi
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	644	0			
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	42861	0			
Wild boars - farmed - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	886	1			
Wild boars - from hunting - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	1811	1			1
Wild boars - from hunting - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	3938	0			
Wild boars - wild - from hunting - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	2137	1			1
Wild boars - wild - from hunting - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	15743	2		2	
Wolves - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	9	0			
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	25	4			4
Wolves - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	1	0			

	T. pseudospiralis
Badgers - unspecified - Monitoring	
Badgers - wild - unspecified - Clinical investigations	

Table Trichinella in animals

	T. pseudospiralis
Badgers - wild - unspecified - Monitoring	
Bears - wild - unspecified - Monitoring	
Bears - wild - unspecified - Survey - national survey	
Birds - wild - unspecified - Clinical investigations	
Cantabrian chamois - unspecified - Monitoring	
Deer - wild - unspecified - Monitoring	
Falcons - unspecified - Monitoring	
Foxes - wild - unspecified - Clinical investigations	
Foxes - wild - unspecified - Monitoring	
Foxes - wild - unspecified - Monitoring	
Foxes - wild - unspecified - Survey - national survey	
Hedgehogs - wild - unspecified - Monitoring	
Marten - wild - unspecified - Monitoring	
Marten - wild - unspecified - Monitoring	
Other animals - wild - unspecified - Clinical investigations	
Other mustelides - wild - unspecified - Monitoring	

Table Trichinella in animals

	T. pseudospiralis
Pigs - breeding animals - raised under controlled housing conditions - sows - at slaughterhouse - Monitoring	
Pigs - fattening pigs - raised under controlled housing conditions - at slaughterhouse - Monitoring	
Pigs - fattening pigs - unspecified - at farm - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - donkeys - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Wild animals - unspecified - Clinical investigations	
Wild animals - unspecified - Monitoring	
Wild animals - unspecified - Survey - national survey	
Wild boars - at farm - Monitoring	
Wild boars - at slaughterhouse - Monitoring	
Wild boars - at slaughterhouse - Monitoring	
Wild boars - farmed - at slaughterhouse - Monitoring	1

Table Trichinella in animals

	T. pseudospiralis
Wild boars - from hunting - Monitoring	
Wild boars - from hunting - Survey - national survey	
Wild boars - wild - from hunting - Clinical investigations	
Wild boars - wild - from hunting - Monitoring	
Wolves - wild - unspecified - Clinical investigations	
Wolves - wild - unspecified - Monitoring	
Wolves - wild - unspecified - Survey - national survey	

2.9 ECHINOCOCCOSIS

2.9.1 General evaluation of the national situation

A. Echinococcus spp. general evaluation

History of the disease and/or infection in the country

Until now, in Italy, the following agents of Cystic echinococcosis (CE) have been identified : *Echinococcus granulosus sensu stricto* (genotypes G1, G2, G3), *E. equinus* (G4), *E. ortleppi* (G5), and pig strain (G7). CE has been reported in farmed animals, dogs, wildlife (mainly wolves and wild-boars), and in humans. *E. multilocularis* (Alveolar echinococcosis) has been reported in foxes but it is not present in other animals or in humans.

National evaluation of the recent situation, the trends and sources of infection

The epidemiological situation in recent years may be considered essentially constant. EC can be defined *sporadic* in northern Italy, *endemic* and high endemic in central Italy and southern islands (Sardinia and Sicily). However, a high prevalence of CE in adult sheep has been reported in several Italian provinces, regardless of the area of origin, and in alpine areas previously considered *low endemic*. Sardinia and Sicily show the highest prevalence. In the sheep-dog cycle the most important role for the spread of the parasite is represented by shepherd dogs not managed properly. Although there are no reports of positivity about alveolar echinococcosis, it should pay attention to the control of the viscera during the slaughtering and later in laboratory for diagnostic confirmation to rule out with certainty the *Echinococcus multilocularis*'s presence.

Recent actions taken to control the zoonoses

CE study projects have been implemented in some regions. Treatment of dogs in dog-shelters is required by law.

Additional information

It is important to note that from 7 regions and one autonomous province (Basilicata, Calabria, Molise, Piedmont, Puglia, Valle d'Aosta, Veneto, Bolzano Province) no information was available in 2012. With the exception of Sardinia region (29% prevalence in sheep), the prevalence of positivity reported, especially for data resulting from the official controls, are always lower than 1% even in regions known to be endemic with apparent underreporting of the real cases of *Echinococcus* spp in Italian territory. From this year, the data relating to sheep and goats slaughtered have been successfully separated in almost all regions and in the future it would be desirable to distinguish, in the collection of data slaughter of sheep, lambs and adult.

- 1) Garippa G, Manfredi MT. Cystic echinococcosis in Europe and in Italy. *Vet Res Commun.* 2009; 33, Suppl 1: 35-9.
- (2) Battelli G, Garippa G. Occurrence of animal Cystic echinococcosis in Italy: an updating. *Parassitologia* 2010; 52 (1-2): 295.
- (3) Battelli G, Ostanello F, Baldelli R, Di Francesco A, Grilli R, Vizioli M. Human echinococcosis in the Emilia-Romagna Region (northern Italy) in the years 1997 to 2002: an updating. *Parassitologia* 2004; 46: 415-6.
- (4) Brunetti E, Moriggia A, Grisolia A, Troia G, Gasparetto C, Filice CI. Echinococcosis in Lombardy: preliminary evaluation of hospital discharge records in 2004. *Parassitologia* 2006; 48: 220.
- (5) Montinaro L, Sisinni, Sartorelli P. L'echinococcosi: un'endemia persistente. *G Ital Med Lav Erg.* 2004;

26: 202-7.

(6) Punzo C, Mastrogiacomo M, Germinario C, De Leo G, Bonomo GM. Idatidosi epatica in Puglia: analisi delle dimissioni ospedaliere negli anni 1996-2000. *Ann Ital Chir.* 2002; 73: 605-9.

(7) Cringoli G (2010). Personal communication.

(8) Conchedda M, Antonelli A, Caddori A, Seu V, Gabriele F. Human cystic echinococcosis in Sardinia from 2001 to 2004 based on Hospital Discharge Reports. *Parassitologia* 2008; 50 (1-2): 40.

(9) Conchedda M, Antonelli A, Caddori A, Gabriele F. A retrospective analysis of human cystic echinococcosis in Sardinia (Italy), an endemic Mediterranean region, from 2001 to 2005. *Parasitology International* 2010; 59: 454-9.

(10) Caremani M, Maestrini R, Occhini U, Sassoli S, Accorsi A, Giorgio A, Filice C. Echographic epidemiology of cystic hydatid disease in Italy. *Eur J Epidemiol.* 2002; 9: 401-4.

(11) Brunetti E, Piccoli L, Battelli G, Garippa G. Why compulsory notification of human cystic echinococcosis should be reintroduced in Italy. *Parassitologia* 2010; 52 (1-2): 388.

(12) WHO/OIE Manual on Echinococcosis in Humans and Animals: a Public Health Problem of Global Concern

(13) Romig T 2003 Epidemiology of echinococcosis. *Langenbecks Arch Surg.* 388, 209-217.

(14) Brundu, Diego and Aloj, Daniela and Rolesu, Sandro and Piseddu, Toni and Masala, Giovanna (2012) Cystic echinococcosis in slaughtered cattle in Sardinia: a retrospective epidemiological study and spatial analysis. *Geospatial Health* , 6 (2). pp. 285-291. ISSN 1970-7096

(15) Mastrandrea, S., G. Stegel, T. Piseddu, S. Ledda, e G. Masala. «A retrospective study on burden of human echinococcosis based on Hospital Discharge Records from 2001 to 2009 in Sardinia, Italy». *Acta Tropica* 123, n° 3 (Settembre 2012): 184-189.

2.9.2 Echinococcosis in humans

A. Echinococcus spp. in humans

Notification system in place

National Registry of Human Cistic Echinococcosis set up at the ISS on May 2012. The Registry could obtain epidemiological information also useful in understanding the burden and the geographical distribution of CE.

Additional information

The Centre conducted data analysis from the Hospital Discharge Records (HDRs), provided by the Ministry of Health, on Cystic echinococcosis in humans (EC) 2008-2011 by detecting an average of 802 cases/year and an average prevalence (AP) of 1.68 cases per 100,000 inhabitants. Taking into account the different geographical areas of Italy (North, Central, South, Islands), the A.P. is distributed as described in below:

The highest A.P. was found in Sardinia and Sicily with 4.78 cases per 100,000 inhabitants. (5.96 in Sardinia 3.6 in Sicily).

In southern Italy the A.P. is 2.67 cases /100,000 inhabitants (5.04 in Basilicata)

In central Italy A.P. is 1 case / 100,000 inhabitants (1.45 in Lazio and Umbria)

In Northern Italy the A.P. is 0.5 cases /100,000 inhabitants (0.99 and 0.84 in the Valle D'Aosta in Liguria)

In the years analysed in Italy are respectively detected:

In 2008 964 cases of E.C. with 1179 admissions (A.P. 2.01/100.000 ab)

In 2009 880 cases of E.C. with 1101 admissions (A.P. 1.87/100.000 ab)

In 2010 752 cases of E.C. with 894 admissions (A.P. 1.56/100.000 ab)

2.9.3 Echinococcus in animals

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Messina	1	0		
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	1	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lucca	5928	1		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Umbria	28008	57	57	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Udine	1630	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	environmental sample	Domestic	Slaughter batch	Italia	509	88	88	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Firenze	3181	4		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	12362	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trento	14215	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Campania	43703	322		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Savona	734	1	1	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Marche	24192	12		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	22469	253	253	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trieste	169	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	environmental sample	Domestic	Slaughter batch	Nuoro	509	88	88	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Massa-Carrara	7237	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Rieti	10504	446		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Frosinone	27047	211	1	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Cagliari	1287	59	59	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	5821	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	1114909	5088	4061	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pistoia	3961	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Imperia	261	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	14043	22	22	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Emilia-Romagna	276733	583	583	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	10685	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	7665	1		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Roma	2095	26	26	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Oristano	6425	194	194	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Livorno	1784	2		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lombardia	611520	3371	3371	
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Siena	1149	0		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Latina	6819	29		
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Arezzo	4409	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	La Spezia	3811	0		
Cattle (bovine animals) - meat production animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Abruzzo	20163	182		
Cattle (bovine animals) - meat production animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	20163	182		
Deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	13	0		
Deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	13	0		
Deer - wild - fallow deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	158	0		
Deer - wild - fallow deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	158	0		
Deer - wild - roe deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	29	0		
Deer - wild - roe deer - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	29	0		
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	2	0		
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Messina	2	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Massa-Carrara	72	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lucca	562	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pistoia	26	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Roma	3	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	2676	16	16	
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Arezzo	129	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Marche	616	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Livorno	25	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	862	29	29	
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Latina	1333	6		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	546	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	333	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Nuoro	196	19	19	
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Udine	1282	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Firenze	68	0		
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	7675	22	16	
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Cagliari	333	10	10	
Goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trieste	337	0		
Other animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	1815	91		
Other animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Rieti	1815	91		
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Messina	14	0		
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Palermo	4	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Pigs - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	18	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lombardia	4511097	1	1	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	37588	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Umbria	362152	7	7	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Oristano	1608	1	1	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	6880	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Frosinone	13771	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Roma	121016	2		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Massa-Carrara	1802	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Arezzo	27109	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Rieti	9184	24		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	8519297	105	60	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trento	61608	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Abruzzo	273130	15		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lucca	1340	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Prato	127	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pistoia	129590	1		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	7822	1	1	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Firenze	1161	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Imperia	17	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Siena	10754	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Udine	15690	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Cagliari	5623	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	411	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Latina	1188	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pisa	6403	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	La Spezia	163	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Cagliari	151272	37	37	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trieste	1326	0		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Emilia-Romagna	2676693	10	10	
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Marche	87049	3		
Pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	11367	5	5	
Pigs - breeding animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	7873	0		
Pigs - breeding animals - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	7873	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Pigs - fattening pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Livorno	1963	1		
Pigs - fattening pigs - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	1963	1		
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	5	0		
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Messina	4	0		
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Palermo	1	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Nuoro	760	415	415	
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lucca	7931	90		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	9601	2749	2749	
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Rieti	65790	50		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Firenze	4442	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	684721	2433	2433	
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	5131	10		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Marche	40878	1		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Roma	254	15		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Udine	90	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	882378	2875	2433	
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	1108	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Siena	810	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pistoia	173	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Cagliari	8624	2334	2334	
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Livorno	239	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Massa-Carrara	553	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	217	0		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Arezzo	7597	28		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Latina	62251	248		
Sheep - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trieste	410	0		
Sheep - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	12	5	5	
Sheep - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Sardegna	12	5	5	
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Enna	16	0		
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	16	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Emilia-Romagna	45785	13	13	
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Catania	1	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Imperia	109	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Cagliari	18563	7820	7820	
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	310045	8429	8058	
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	228	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Frosinone	59170	25		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	21228	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trento	3691	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Umbria	46661	16	16	
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	La Spezia	330	0		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	2767	516	516	
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Abruzzo	54944	346		
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lombardia	60002	209	209	

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Sheep and goats - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Oristano	2100	516	516	
Sheep and goats - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Enna	2	0		
Sheep and goats - at slaughterhouse - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	2	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Frosinone	345	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	5822	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Genova	1	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Lombardia	3535	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Roma	1691	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	La Spezia	378	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	380	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Rieti	209	0		
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	42	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Solipeds, domestic - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Imperia	1	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trieste	2	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Italia	10	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Umbria	104	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Trento	144	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Emilia-Romagna	7388	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Massa-Carrara	118	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	8768	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pordenone	228	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	349	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Abruzzo	180	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Pistoia	92	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Slaughter batch	Cagliari	10	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Marche	163	0		
Water buffalos - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	24289	62		
Water buffalos - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Campania	24289	62		
Wild animals - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	Italia	2376	0		
Wild animals - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	Lombardia	2376	0		
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Umbria	16720	25	25	
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	16784	25	25	
Wild boars - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Latina	64	0		
Wild boars - farmed - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Grosseto	20	0		
Wild boars - farmed - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	20	0		
Wild boars - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	Italia	644	0		
Wild boars - unspecified - Monitoring	Sinzoo	Census	Official sampling		Domestic	Animal	Trieste	644	0		
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Italia	2	0		
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Messina	2	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Wild boars - wild - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Viterbo	746	12	12	
Wild boars - wild - at slaughterhouse - Monitoring	Sinzoo	Census	Official sampling	animal sample	Domestic	Animal	Italia	746	12	12	
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Sardegna	2	0		
Wild boars - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Italia	2	0		

	Echinococcus spp., unspecified
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at slaughterhouse - Monitoring	1
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - Monitoring	4
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	322
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	12
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	446
Cattle (bovine animals) - at slaughterhouse - Monitoring	210

Table Echinococcus in animals

	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	1027
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	1
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	2

Table Echinococcus in animals

	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	29
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - at slaughterhouse - Monitoring	
Cattle (bovine animals) - meat production animals - at slaughterhouse - Monitoring	182
Cattle (bovine animals) - meat production animals - at slaughterhouse - Monitoring	182
Deer - at slaughterhouse - Monitoring	
Deer - at slaughterhouse - Monitoring	
Deer - wild - fallow deer - at slaughterhouse - Monitoring	
Deer - wild - fallow deer - at slaughterhouse - Monitoring	
Deer - wild - roe deer - at slaughterhouse - Monitoring	
Deer - wild - roe deer - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Goats - at farm - Survey - national survey	
Goats - at farm - Survey - national survey	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	6
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	
Goats - at slaughterhouse - Monitoring	6
Goats - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Goats - at slaughterhouse - Monitoring	
Other animals - at slaughterhouse - Monitoring	91
Other animals - at slaughterhouse - Monitoring	91
Pigs - at farm - Survey - national survey	
Pigs - at farm - Survey - national survey	
Pigs - at farm - Survey - national survey	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	2
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	24
Pigs - at slaughterhouse - Monitoring	45
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	15

Table Echinococcus in animals

	Echinococcus spp., unspecified
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	1
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	
Pigs - at slaughterhouse - Monitoring	3
Pigs - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Pigs - breeding animals - at slaughterhouse - Monitoring	
Pigs - breeding animals - at slaughterhouse - Monitoring	
Pigs - fattening pigs - at slaughterhouse - Monitoring	1
Pigs - fattening pigs - at slaughterhouse - Monitoring	1
Sheep - at farm - Survey - national survey	
Sheep - at farm - Survey - national survey	
Sheep - at farm - Survey - national survey	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	90
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	50
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	10
Sheep - at slaughterhouse - Monitoring	1
Sheep - at slaughterhouse - Monitoring	15
Sheep - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Sheep - at slaughterhouse - Monitoring	442
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Monitoring	28
Sheep - at slaughterhouse - Monitoring	248
Sheep - at slaughterhouse - Monitoring	
Sheep - at slaughterhouse - Survey - national survey	
Sheep - at slaughterhouse - Survey - national survey	
Sheep and goats - at farm - Survey - national survey	
Sheep and goats - at farm - Survey - national survey	
Sheep and goats - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	371
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	25
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	346

Table Echinococcus in animals

	Echinococcus spp., unspecified
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Monitoring	
Sheep and goats - at slaughterhouse - Survey - national survey	
Sheep and goats - at slaughterhouse - Survey - national survey	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	

Table Echinococcus in animals

	Echinococcus spp., unspecified
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Solipeds, domestic - horses - at slaughterhouse - Monitoring	
Water buffalos - at slaughterhouse - Monitoring	62
Water buffalos - at slaughterhouse - Monitoring	62
Wild animals - unspecified - Monitoring	
Wild animals - unspecified - Monitoring	
Wild boars - at slaughterhouse - Monitoring	
Wild boars - at slaughterhouse - Monitoring	
Wild boars - at slaughterhouse - Monitoring	
Wild boars - farmed - at slaughterhouse - Monitoring	
Wild boars - farmed - at slaughterhouse - Monitoring	
Wild boars - unspecified - Monitoring	
Wild boars - unspecified - Monitoring	
Wild boars - unspecified - Survey - national survey	

Table Echinococcus in animals

Echinococcus spp., unspecified	
Wild boars - unspecified - Survey - national survey	
Wild boars - wild - at slaughterhouse - Monitoring	
Wild boars - wild - at slaughterhouse - Monitoring	
Wild boars - wild - unspecified - Survey - national survey	
Wild boars - wild - unspecified - Survey - national survey	

2.10 TOXOPLASMOSIS

2.10.1 General evaluation of the national situation

A. Toxoplasmosis general evaluation

History of the disease and/or infection in the country

In 1908, Nicolle and Manceaux first observed toxoplasmosis in rodents but it was only in 1932 that was found the zoonotic nature of agent *T. gondii*, as a result of congenital infection of a newborn. In 1939, Wolf and other authors also found the possibility that the disease could develop encephalitis and lead to death. In the 60s the disease was often diagnosed in patients with cancers and in the 80s in those with AIDS. In 2004 the Italian Ministry of Health has established the National Reference Centre for Toxoplasmosis (Ce.Tox) located in Istituto Zooprofilattico Sperimentale della Sicilia. The national surveillance system for infectious diseases transmitted from zoonotic agents categorizes toxoplasmosis, together with Cryptosporidiosis, Borreliosis, Psittacosis and Yersiniosis, zoonoses for which annual aggregate prevalence data must be transmitted, but not among those subjected to mandatory reporting or to special surveillance. This type of information management does not allow to estimate the prevalence of the disease throughout the country whereas Italian researchers are increasingly interested in this topic.

National evaluation of the recent situation, the trends and sources of infection

In 2012, 556 animals tested positive for toxoplasma infection out of a total of 1851 animals. Screening for toxoplasma infection have been performed in 8 out of 20 regions and in the autonomous province of Bolzano.

Compared to 2011, the total number of animals tested has increased slightly as the number of reported positives cases (221 out of 1172).

As regarding livestock, most of sampling is related to clinical investigations (no. 23), with lower numbers regarding official controls (no. 7) and in-farm health monitoring (no. 5). In seven cases, sampling and analysis were carried out for research purposes.

The data reported above are insufficient to determine the Italian actual prevalence of toxoplasma infection. However, the analysis of collected data shows interesting results for wild boars sampled in Sardinia (185 out of 218 animals) and game hunted in Umbria (55 out of 128 animals). In both cases the result of these analyses carried out for research purposes stresses the need for extending official controls for toxoplasma infection to game species when meat is intended for human consumption.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

Significance for human cases might be substantial. On an overall screening of 1851 samples, 456 out of 556 animals tested positive are food producing. As regarding the latter, on an overall number of 1199 samples, positive results were distributed among species as follows: 20 out of 142 cattle; 26 out of 124 swine; 185 out of 218 wild boars; 225 out of 715 small ruminants.

Recent actions taken to control the zoonoses

The Italian National Reference Centre for Toxoplasmosis (Ce.Tox) validated the diagnostic methods recommended by OIE (ELISA, IFAT, Nested-PCR, immunohistochemistry, in vitro culture) and has ongoing researches on developing internal methods for innovative diagnosis of toxoplasma infection in live animals and food of animal origin.

Suggestions to the European Union for the actions to be taken

-In Europe, like what has been done to control other zoonotic parasites (*Trichinella* in meat), you might consider the possibility of enforcing a special regulation to define the rules on official controls, from sampling to laboratory diagnosis for the *T. gondii*.

Additional information

The OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals ed. 2012 includes toxoplasmosis in the "Sec. 2.9 Other Diseases ", paying manifest attention to this disease and describing several diagnostic methods.

2.10.2 Toxoplasma in animals

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	Animal	1	0		
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	70	51	5	46
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	Animal	3	0		
Goats - at farm - Clinical investigations ¹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	7	1	1	
Bears - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Microbiological tests	Animal	1	0		
Canary - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		
Cantabrian chamois - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	Unknown	Animal	1	0		
Cats - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	Animal	12	7		7
Cats - pet animals - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	Animal	1	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	2	0		

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	28	0		
Cats - pet animals - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Unknown	Animal	3	0		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	10	1		1
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	11	0		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	21	0		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	herd/flock	4	1	1	
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		
Cattle (bovine animals) - at farm - Monitoring ²⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	herd/flock	81	18	18	
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	8	0		
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Unknown	Animal	1	0		
Cattle (bovine animals) - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		
Deer - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	1	0		

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Deer - wild - roe deer - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	1	0		
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	Animal	185	90		90
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	1	0		
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	1	0		
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	2	0		
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	40	18		18
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	25	1		1
Mouflons - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Immunofluorescence antibody test (IFAT)	Animal	3	3		3
Other animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	1	0		
Parrots - pet animals - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Unknown	Animal	2	0		
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	herd/flock	124	26	26	
Rabbits - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	2	0		

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	169	95		95
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	1	0		
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	1	0		
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	582	2		2
Sheep - at farm - Survey - national survey ³⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	128	57	57	
Sheep and goats - at farm - Clinical investigations ⁴⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	3	0		
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	2	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Unknown	Animal	1	0		
Sheep and goats - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Unknown	Animal	18	0		
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	16	0		
Squirrels - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	ELISA	Animal	13	0		
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	3	0		
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Immunofluorescence antibody test (IFAT)	Animal	218	185		185

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Wild boars - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	ELISA	Animal	35	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Microbiological tests	Animal	5	0		

Comments:

- 1) Multiple methods used
- 2) Multiple methods used
- 3) Multiple methods used
- 4) Multiple methods used

2.11 RABIES

2.11.1 General evaluation of the national situation

A. Rabies general evaluation

National evaluation of the recent situation, the trends and sources of infection

Following the development of the sylvatic rabies epidemic, in 2012, a high level of passive surveillance in wild animals in north-eastern Italy has been maintained, as a measure to detect any possible further re-emergence of the epidemic.

No further cases of rabies were diagnosed in 2012. The last positive fox was diagnosed in the province of Belluno in February 2011.

The data about rabies surveillance in the other Italian regions did not show any relevant change.

Recent actions taken to control the zoonoses

The pattern of the sylvatic rabies epidemic above described is the consequence of the preventive measures successfully applied to both wild animals, the red fox in particular, consisting of two ordinary oral fox vaccination campaigns in 2012, and to domestic animals, i.e. compulsory rabies vaccination of dogs and domestic herbivores at pasture or migratory in at risk areas.

Additional information

The phylogenetic analysis of the sequence carried out at the IZS delle Venezie revealed that the Italian isolates in the period 2008-2011 belong to the classical rabies virus and to the Western Europe lyssavirus group (Clade WE). As expected, the lyssavirus responsible for the recent and the past rabies epidemics in Friuli Venezia Giulia region cluster with the lyssavirus circulating in the bordering Countries, in particular Slovenia and Bosnia & Herzegovina. Similar features were shown also by rabies isolates of Slovenia. In 2012, in Slovenia, 3 rabid foxes were diagnosed, 2 in the north-eastern part of the country at the border with Croatia and one (a vaccine-related case) in Tolmino municipality, close to the Italian border.

2.11.2 Lyssavirus (rabies) in animals

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	18	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	291	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Liguria	1	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Umbria	3	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal		15	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	27	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	90	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	52	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	41	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	43	0		
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Toscana	1	0		
Bats - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Liguria	2	0		
Bats - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	1	0		
Bats - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	3	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Umbria	4	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Veneto	113	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Emilia-Romagna	13	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Friuli-Venezia Giulia	12	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Lazio	9	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	261	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Marche	1	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Abruzzo	2	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Piemonte	8	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Liguria	3	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Toscana	11	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Puglia	1	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Campania	2	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Provincia Autonoma Trento	35	0		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Lombardia	47	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Veneto	26	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Lombardia	2	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Trento	4	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Italia	37	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	1	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Piemonte	1	0		
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Friuli-Venezia Giulia	3	0		
Deer - wild - red deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	1	0		
Deer - wild - red deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	1	0		
Deer - wild - red deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	2	0		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Emilia-Romagna	1	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	83	0		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	6	0		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	58	0		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	6	0		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	12	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Provincia Autonoma Trento	13	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Veneto	100	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Abruzzo	8	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Piemonte	30	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Friuli-Venezia Giulia	5	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Liguria	2	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Campania	5	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Umbria	10	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Puglia	4	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Lazio	19	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	1	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Emilia-Romagna	34	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Marche	4	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Toscana	17	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Molise	3	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Calabria	1	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Sicilia	9	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	344	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal		3	0		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Lombardia	76	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	863	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Liguria	12	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Abruzzo	1	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	5021	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Toscana	5	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Marche	2	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Emilia-Romagna	259	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	303	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	1054	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Basilicata	2	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal		61	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	607	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lazio	15	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Umbria	40	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Campania	5	0		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	1208	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	584	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	13	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	1	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	1	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	252	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	1	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Emilia-Romagna	1	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	232	0		
Marten - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	3	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	4	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Toscana	1	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	46	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	8	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	1	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lazio	2	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	3	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	155	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Emilia-Romagna	6	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	26	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Abruzzo	1	0		
Other animals - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Umbria	57	0		
Other carnivores - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	1	0		
Other carnivores - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	1	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Veneto	11	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Bolzano/Bozen	70	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Provincia Autonoma Trento	19	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	4	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Friuli-Venezia Giulia	7	0		
Other mustelides - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	111	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Pet animals, all - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Veneto	7	0		
Pet animals, all - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Umbria	1	0		
Pet animals, all - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Italia	9	0		
Pet animals, all - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Marche	1	0		
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Italia	5	0		
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Toscana	1	0		
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Veneto	3	0		
Pigs - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Trento	1	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Veneto	50	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Trento	11	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Sicilia	4	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Italia	79	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Bolzano/Bozen	1	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Lombardia	1	0		
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Friuli-Venezia Giulia	12	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Provincia Autonoma Trento	1	0		
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Italia	1	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	3	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Toscana	1	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lombardia	1	0		
Wild boars - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Piemonte	1	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Umbria	6	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Molise	2	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Italia	10	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Toscana	1	0		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Lazio	1	0		

	EBLV-2	Lyssavirus (unspecified virus)
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Badgers - unspecified - Monitoring		
Bats - wild - unspecified - Monitoring		
Bats - wild - unspecified - Monitoring		
Bats - wild - unspecified - Monitoring		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cats - pet animals - at retail - Clinical investigations		
Cattle (bovine animals) - at farm - Monitoring		
Cattle (bovine animals) - at farm - Monitoring		
Cattle (bovine animals) - at farm - Monitoring		
Cattle (bovine animals) - at farm - Monitoring		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Cattle (bovine animals) - at farm - Monitoring		
Cattle (bovine animals) - at farm - Monitoring		
Cattle (bovine animals) - at farm - Monitoring		
Deer - wild - red deer - unspecified - Monitoring		
Deer - wild - red deer - unspecified - Monitoring		
Deer - wild - red deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Deer - wild - roe deer - unspecified - Monitoring		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Dogs - pet animals - at retail - Clinical investigations		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Foxes - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Marten - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other animals - wild - unspecified - Monitoring		
Other carnivores - wild - unspecified - Monitoring		
Other carnivores - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Other mustelides - wild - unspecified - Monitoring		
Pet animals, all - at retail - Clinical investigations		
Pet animals, all - at retail - Clinical investigations		
Pet animals, all - at retail - Clinical investigations		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Pet animals, all - at retail - Clinical investigations		
Pigs - at farm - Monitoring		
Pigs - at farm - Monitoring		
Pigs - at farm - Monitoring		
Pigs - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Sheep and goats - at farm - Monitoring		
Solipeds, domestic - horses - at farm - Monitoring		
Solipeds, domestic - horses - at farm - Monitoring		
Wild boars - wild - unspecified - Monitoring		
Wild boars - wild - unspecified - Monitoring		
Wild boars - wild - unspecified - Monitoring		
Wild boars - wild - unspecified - Monitoring		

Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)
Wolves - wild - unspecified - Monitoring		
Wolves - wild - unspecified - Monitoring		
Wolves - wild - unspecified - Monitoring		
Wolves - wild - unspecified - Monitoring		
Wolves - wild - unspecified - Monitoring		

2.12 STAPHYLOCOCCUS INFECTION

2.12.1 General evaluation of the national situation

2.12.2 Staphylococcus in foodstuffs

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Bakery products - bread - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	7	0		
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - pastry - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	5	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Bakery products - pastry - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Bakery products - pastry - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Bakery products - pastry - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0		
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	81	0		
Cheeses made from cows' milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	25	0		
Cheeses made from cows' milk - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Cheeses made from cows' milk - fresh - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Cheeses made from cows' milk - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	78	0		
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	22	0		
Cheeses made from cows' milk - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	21	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Cheeses made from goats' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from mixed milk from cows, sheep and/or goats - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	10		
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	89	2		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	14	0		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	107	4		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	32	3		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	317	22		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	19	0		
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	76	22		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	2	2		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	58	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	10	0		
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Dairy products (excluding cheeses) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	1	1		
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	51	0		
Dairy products (excluding cheeses) - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	13	0		
Dairy products (excluding cheeses) - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	17	0		
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Dairy products (excluding cheeses) - cream - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Dairy products (excluding cheeses) - cream - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	11	4		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - ice-cream - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0		
Dairy products, unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0		
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Dairy products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	13	0		
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Dairy products, unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0		
Egg products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Egg products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Fish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	6	0		
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Fish - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	6	0		
Fish - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Fish - marinated - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	22	0		
Fishery products, unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Fishery products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	2	0		
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Fruits and vegetables - products - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Fruits and vegetables - products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Juice - fruit juice - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Juice - fruit juice - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from bovine animals - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from bovine animals - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from bovine animals - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from bovine animals - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from bovine animals - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	7	0		
Meat from bovine animals - offal - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	2	0		
Meat from bovine animals - offal - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Meat from bovine animals - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from bovine animals - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from horse - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	26	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	10	0		
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - fresh - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	11	0		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	1		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0		
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	8	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	28	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	34	7		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	21	2		
Meat from other animal species or not specified - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Meat from other animal species or not specified - meat products - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Meat from other animal species or not specified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0		
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from other animal species or not specified - minced meat - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - minced meat - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - minced meat - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	24	0		
Meat from other animal species or not specified - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from other animal species or not specified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Meat from pig - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Meat from pig - fresh - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Meat from pig - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from pig - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	25	0		
Meat from pig - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0		
Meat from pig - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	26	0		
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from pig - meat products - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from pig - offal - liver - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - fresh - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from poultry, unspecified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Meat from poultry, unspecified - meat products - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	4	0		
Meat from poultry, unspecified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from poultry, unspecified - offal - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	10	0		
Meat from rabbit - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from rabbit - offal - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	4	0		
Meat from sheep - carcase - at slaughterhouse - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Meat from turkey - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Meat from turkey - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Meat from turkey - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Milk from other animal species or unspecified - UHT milk - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	4	0		
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	790	234		
Milk from other animal species or unspecified - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Single	25 Gram	12148	380		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	28	2		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	1		
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	75	3		
Milk from other animal species or unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Single	25 Gram	2	0		
Milk from other animal species or unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1867	795		
Milk from other animal species or unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	78	0		
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk from other animal species or unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	1		
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk, cows' - UHT milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Milk, cows' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	30	4		
Milk, cows' - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	207	54		
Milk, cows' - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	24	0		
Milk, cows' - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	11	1		
Milk, cows' - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	13	2		
Milk, cows' - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	31	0		
Milk, cows' - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Milk, cows' - pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Milk, cows' - pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	0		
Milk, goats' - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	5	0		
Milk, sheep's - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Single	25 Gram	3132	1405		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Milk, sheep's - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	environmental sample	Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0		
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - pasta - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	12	0		
Other processed food products and prepared dishes - pasta - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	82	1		
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	33	1		
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	29	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling		Domestic	Single	25 Gram	2	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	15	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	13	0		
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	3	0		
Other processed food products and prepared dishes - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0		

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Sauce and dressings - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Sweets - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Sweets - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0		
Sweets - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0		
Sweets - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0		
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0		
Vegetables - at catering - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0		
Vegetables - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0		
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0		

	S. aureus, meticillin resistant (MRSA) - spa-type t108	S. aureus, meticillin resistant (MRSA) - spa-type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococcus spp., unspecified
All foodstuffs - at retail - Surveillance						
Bakery products - bread - at catering - Unspecified						
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Bakery products - desserts - containing heat-treated cream - at retail - Unspecified						
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance						
Bakery products - pastry - at catering - Survey - national survey						
Bakery products - pastry - at processing plant - Surveillance						
Bakery products - pastry - at processing plant - Surveillance						
Bakery products - pastry - at processing plant - Survey - national survey						
Bakery products - pastry - at retail - Surveillance						
Bakery products - pastry - at retail - Surveillance						
Bakery products - pastry - at retail - Unspecified						
Cheeses made from cows' milk - at processing plant - Surveillance						
Cheeses made from cows' milk - at processing plant - Survey - national survey						
Cheeses made from cows' milk - fresh - at catering - Surveillance						
Cheeses made from cows' milk - fresh - at catering - Unspecified						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Cheeses made from cows' milk - fresh - at processing plant - Surveillance						
Cheeses made from cows' milk - fresh - at processing plant - Survey - national survey						
Cheeses made from cows' milk - fresh - at retail - Surveillance						
Cheeses made from cows' milk - hard - at processing plant - Survey - national survey						
Cheeses made from cows' milk - hard - at retail - Surveillance						
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance						
Cheeses made from goats' milk - at processing plant - Surveillance						
Cheeses made from sheep's milk - at processing plant - Surveillance						
Cheeses, made from mixed milk from cows, sheep and/or goats - at processing plant - Surveillance						10
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance						2
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance						4
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey				3		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified						22
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance						
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance				22		
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Surveillance						
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey - national survey						2
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Unspecified						
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Surveillance						
Cheeses, made from unspecified milk or other animal milk - hard - at processing plant - Survey - national survey						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance						
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Unspecified						
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance						
Crustaceans - at retail - Surveillance						
Dairy products (excluding cheeses) - at catering - Survey - national survey						
Dairy products (excluding cheeses) - at farm - Survey - national survey						1
Dairy products (excluding cheeses) - at processing plant - Surveillance						
Dairy products (excluding cheeses) - at processing plant - Survey - national survey						
Dairy products (excluding cheeses) - at processing plant - Unspecified						
Dairy products (excluding cheeses) - at retail - Surveillance						
Dairy products (excluding cheeses) - at retail - Survey - national survey						
Dairy products (excluding cheeses) - butter - at catering - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance						
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance						
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey						
Dairy products (excluding cheeses) - butter - at retail - Surveillance						
Dairy products (excluding cheeses) - cream - at catering - Survey - national survey						
Dairy products (excluding cheeses) - cream - at processing plant - Survey - national survey						
Dairy products (excluding cheeses) - ice-cream - at catering - Unspecified						4
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance						
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance						
Dairy products (excluding cheeses) - ice-cream - at processing plant - Unspecified						
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance						
Dairy products (excluding cheeses) - yoghurt - at catering - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Dairy products (excluding cheeses) - yoghurt - at processing plant - Unspecified						
Dairy products, unspecified - at catering - Survey - national survey						
Dairy products, unspecified - at processing plant - Surveillance						
Dairy products, unspecified - at processing plant - Survey - national survey						
Dairy products, unspecified - at retail - Surveillance						
Dairy products, unspecified - at retail - Survey - national survey						
Egg products - at processing plant - Surveillance						
Egg products - at processing plant - Surveillance						
Eggs - at retail - Surveillance						
Fish - at catering - Surveillance						
Fish - at farm - Surveillance						
Fish - at processing plant - Surveillance						
Fish - at processing plant - Unspecified						
Fish - at retail - Surveillance						
Fish - at retail - Surveillance						
Fish - marinated - at catering - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Fishery products, unspecified - at catering - Surveillance						
Fishery products, unspecified - at catering - Unspecified						
Fishery products, unspecified - at processing plant - Surveillance						
Fishery products, unspecified - at processing plant - Surveillance						
Fishery products, unspecified - at processing plant - Survey - national survey						
Fishery products, unspecified - at retail - Surveillance						
Fruits - at catering - Surveillance						
Fruits and vegetables - products - at catering - Surveillance						
Fruits and vegetables - products - at catering - Survey - national survey						
Fruits and vegetables - products - at retail - Unspecified						
Juice - fruit juice - at retail - Surveillance						
Juice - fruit juice - at retail - Surveillance						
Meat from bovine animals - carcase - at slaughterhouse - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from bovine animals - fresh - at catering - Surveillance						
Meat from bovine animals - fresh - at retail - Surveillance						
Meat from bovine animals - meat preparation - at processing plant - Surveillance						
Meat from bovine animals - meat products - at catering - Surveillance						
Meat from bovine animals - meat products - at catering - Unspecified						
Meat from bovine animals - minced meat - at catering - Surveillance						
Meat from bovine animals - minced meat - at retail - Surveillance						
Meat from bovine animals - offal - at processing plant - Surveillance						
Meat from bovine animals - offal - at processing plant - Survey - national survey						
Meat from bovine animals - offal - at processing plant - Unspecified						
Meat from bovine animals - offal - at retail - Surveillance						
Meat from bovine animals - offal - at slaughterhouse - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from horse - meat products - at retail - Surveillance						
Meat from other animal species or not specified - fresh - at catering - Surveillance						
Meat from other animal species or not specified - fresh - at processing plant - Surveillance						
Meat from other animal species or not specified - fresh - at processing plant - Surveillance						
Meat from other animal species or not specified - fresh - at processing plant - Surveillance						
Meat from other animal species or not specified - fresh - at retail - Surveillance						
Meat from other animal species or not specified - fresh - at retail - Survey - national survey						
Meat from other animal species or not specified - fresh - at slaughterhouse - Surveillance						
Meat from other animal species or not specified - meat preparation - at catering - Surveillance						1
Meat from other animal species or not specified - meat preparation - at catering - Surveillance						
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey						
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance						
Meat from other animal species or not specified - meat preparation - at processing plant - Survey - national survey						
Meat from other animal species or not specified - meat preparation - at retail - Surveillance				7		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance						2
Meat from other animal species or not specified - meat preparation - intended to be eaten cooked - at processing plant - Surveillance						
Meat from other animal species or not specified - meat products - at catering - Surveillance						
Meat from other animal species or not specified - meat products - at catering - Survey - national survey						
Meat from other animal species or not specified - meat products - at catering - Unspecified						
Meat from other animal species or not specified - meat products - at processing plant - Surveillance						
Meat from other animal species or not specified - meat products - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from other animal species or not specified - meat products - at processing plant - Surveillance						
Meat from other animal species or not specified - meat products - at processing plant - Unspecified						
Meat from other animal species or not specified - meat products - at retail - Surveillance						
Meat from other animal species or not specified - minced meat - at catering - Surveillance						
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance						
Meat from other animal species or not specified - minced meat - at retail - Surveillance						
Meat from other animal species or not specified - minced meat - at retail - Unspecified						
Meat from other animal species or not specified - offal - at processing plant - Surveillance						
Meat from other animal species or not specified - offal - at processing plant - Surveillance						
Meat from other animal species or not specified - offal - at retail - Surveillance						
Meat from other animal species or not specified - offal - at slaughterhouse - Surveillance						
Meat from pig - carcass - at slaughterhouse - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from pig - fresh - at catering - Surveillance						
Meat from pig - fresh - at processing plant - Surveillance						
Meat from pig - fresh - at retail - Surveillance						
Meat from pig - meat preparation - at processing plant - Surveillance						
Meat from pig - meat preparation - at processing plant - Surveillance						
Meat from pig - meat preparation - at retail - Surveillance						
Meat from pig - meat products - at catering - Surveillance						
Meat from pig - meat products - at catering - Unspecified						
Meat from pig - meat products - at processing plant - Surveillance						
Meat from pig - meat products - at retail - Surveillance						
Meat from pig - meat products - at slaughterhouse - Surveillance						
Meat from pig - offal - liver - at processing plant - Surveillance						
Meat from poultry, unspecified - fresh - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from poultry, unspecified - fresh - at retail - Surveillance						
Meat from poultry, unspecified - fresh - at retail - Surveillance						
Meat from poultry, unspecified - meat products - at catering - Surveillance						
Meat from poultry, unspecified - meat products - at catering - Unspecified						
Meat from poultry, unspecified - meat products - at retail - Surveillance						
Meat from poultry, unspecified - offal - at retail - Surveillance						
Meat from poultry, unspecified - offal - at slaughterhouse - Surveillance						
Meat from rabbit - carcase - at slaughterhouse - Surveillance						
Meat from rabbit - offal - at slaughterhouse - Surveillance						
Meat from sheep - carcase - at slaughterhouse - Surveillance						
Meat from turkey - fresh - at processing plant - Surveillance						
Meat from turkey - meat preparation - at retail - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Meat from turkey - meat products - at catering - Surveillance						
Meat from turkey - offal - at processing plant - Surveillance						
Milk from other animal species or unspecified - UHT milk - at processing plant - Surveillance						
Milk from other animal species or unspecified - UHT milk - at processing plant - Survey - national survey						
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance						
Milk from other animal species or unspecified - at farm - Surveillance						
Milk from other animal species or unspecified - at farm - Survey - national survey				13	1	220
Milk from other animal species or unspecified - at farm - Unspecified				344		36
Milk from other animal species or unspecified - at processing plant - Surveillance				2		
Milk from other animal species or unspecified - at processing plant - Surveillance						1
Milk from other animal species or unspecified - at processing plant - Surveillance				2		1
Milk from other animal species or unspecified - at processing plant - Survey - national survey						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Milk from other animal species or unspecified - at processing plant - Survey - national survey				272		523
Milk from other animal species or unspecified - at processing plant - Unspecified						
Milk from other animal species or unspecified - at retail - Surveillance						
Milk from other animal species or unspecified - at retail - Surveillance						
Milk from other animal species or unspecified - at retail - Survey - national survey						1
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance						
Milk, cows' - UHT milk - at catering - Surveillance						
Milk, cows' - at farm - Surveillance				3		1
Milk, cows' - at farm - Survey - national survey				4		50
Milk, cows' - at processing plant - Surveillance						
Milk, cows' - at processing plant - Survey - national survey				1		
Milk, cows' - at processing plant - Unspecified						2
Milk, cows' - at retail - Surveillance						
Milk, cows' - at retail - Survey - national survey						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Milk, cows' - pasteurised milk - at processing plant - Surveillance						
Milk, cows' - pasteurised milk - at retail - Surveillance						
Milk, goats' - at farm - Surveillance						
Milk, sheep's - at farm - Survey - national survey				173		1232
Milk, sheep's - at processing plant - Surveillance						
Molluscan shellfish - at catering - Unspecified						
Molluscan shellfish - at farm - Surveillance						
Molluscan shellfish - at retail - Surveillance						
Other processed food products and prepared dishes - at catering - Surveillance						
Other processed food products and prepared dishes - at retail - Surveillance						
Other processed food products and prepared dishes - pasta - at catering - Surveillance						
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance						
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Other processed food products and prepared dishes - pasta - at processing plant - Surveillance						
Other processed food products and prepared dishes - pasta - at retail - Surveillance						
Other processed food products and prepared dishes - pasta - at retail - Unspecified						
Other processed food products and prepared dishes - unspecified - at catering - Surveillance						
Other processed food products and prepared dishes - unspecified - at catering - Surveillance						1
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey						1
Other processed food products and prepared dishes - unspecified - at catering - Unspecified						
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance						
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance						
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance						

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Other processed food products and prepared dishes - unspecified - at processing plant - Survey - national survey						
Other processed food products and prepared dishes - unspecified - at retail - Surveillance						
Other processed food products and prepared dishes - unspecified - at retail - Survey - national survey						
Other processed food products and prepared dishes - unspecified - at retail - Unspecified						
Sauce and dressings - at processing plant - Surveillance						
Sweets - at catering - Surveillance						
Sweets - at processing plant - Surveillance						
Sweets - at processing plant - Surveillance						
Sweets - at retail - Surveillance						
Vegetables - at catering - Surveillance						
Vegetables - at catering - Survey - national survey						
Vegetables - at processing plant - Surveillance						
Vegetables - at processing plant - Surveillance						
Vegetables - at retail - Surveillance						

Table Staphylococcus in Food

2.12.3 Staphylococcus in animals

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Gram	3	0		
All animals - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
All animals - pet animals - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	10	1		
All animals - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	1		
Badgers - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	2	1		
Birds - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	5	0		
Birds - wild - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	5	4		
Birds - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	1		
Birds - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	169	20		
Canary - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	1		
Cats - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	14	4		
Cats - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	20	16		

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Cats - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	1		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	1		
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	39	16		
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	1		
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	80	5		
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	1		
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	0		
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	7	6		
Cattle (bovine animals) - dairy cows - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	3	3		
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	8	7		
Deer - wild - roe deer - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	2	2		
Deer - wild - roe deer - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	1	1		

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Dogs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	32	17		
Dogs - pet animals - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	95	16		
Dogs - pet animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	219	169		
Dogs - pet animals - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	1		
Ducks - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	0		
Ducks - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	2	1		
Falcons - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Foxes - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	6	4		
Foxes - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	2	1		
Gallus gallus (fowl) - broilers - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	7	3		
Gallus gallus (fowl) - broilers - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	1		
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	10	4		
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	12	9		
Goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	2		

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Guinea pigs - pet animals - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	1		
Hares - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	5	2		
Hedgehogs - wild - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	0		
Pheasants - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	1		
Pigeons - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	8	3		
Pigeons - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	1		
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	3	2		
Pigs - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	7	4		
Pigs - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Pigs - at slaughterhouse - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	1		
Rabbits - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	13	5		
Rabbits - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	0		
Rodents - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	3	1		
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	42	40		
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	5	2		
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	71	34		
Sheep - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	1		

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	216	10		
Sheep and goats - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	41	13		
Solipeds, domestic - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	1	0		
Solipeds, domestic - donkeys - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Gram	12	1		
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	44	11		
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	11	4		
Solipeds, domestic - horses - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Animal	Gram	18	5		
Solipeds, domestic - horses - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	18	2		
Solipeds, domestic - horses - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	4	0		
Turkeys - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	1	0		
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	herd/flock	Gram	2	1		
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	2	1		
Wild animals - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Animal	Gram	3	2		
Wild boars - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	2	1		

Table Staphylococcus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcus	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa-type t011
Wild boars - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	1	0		
Wolves - wild - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	Animal	Gram	7	2		
Wolves - wild - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	Animal	Gram	3	2		

	S. aureus, meticillin resistant (MRSA) - spa-type t108	S. aureus, meticillin resistant (MRSA) - spa-type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococcus spp., unspecified
Cattle (bovine animals) - at farm - Monitoring						
All animals - pet animals - at farm - Clinical investigations						
All animals - pet animals - at farm - Survey - national survey				1		
All animals - pet animals - at retail - Clinical investigations						1
Badgers - wild - unspecified - Clinical investigations				1		
Birds - wild - at farm - Clinical investigations						
Birds - wild - at retail - Survey - national survey						4
Birds - wild - unspecified - Clinical investigations						1
Birds - wild - unspecified - Survey - national survey						20

Table Staphylococcus in Animals

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Canary - at retail - Survey - national survey						1
Cats - pet animals - at farm - Clinical investigations						4
Cats - pet animals - at retail - Clinical investigations				14		2
Cats - pet animals - at retail - Survey - national survey						1
Cattle (bovine animals) - at farm - Clinical investigations						1
Cattle (bovine animals) - at farm - Clinical investigations				15		1
Cattle (bovine animals) - at farm - Survey - national survey				1		
Cattle (bovine animals) - at farm - Survey - national survey				1		4
Cattle (bovine animals) - breeding bulls - at farm - Clinical investigations						1
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - Clinical investigations						
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations				6		
Cattle (bovine animals) - dairy cows - at farm - Survey - national survey				3		

Table Staphylococcus in Animals

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Cattle (bovine animals) - meat production animals - fattening cows - at farm - Clinical investigations						7
Deer - wild - roe deer - unspecified - Clinical investigations				1		1
Deer - wild - roe deer - unspecified - Monitoring				1		
Dogs - pet animals - at farm - Clinical investigations						17
Dogs - pet animals - at farm - Survey - national survey				14	1	1
Dogs - pet animals - at retail - Clinical investigations				158	1	10
Dogs - pet animals - at retail - Survey - national survey						1
Ducks - unspecified - Clinical investigations						
Ducks - unspecified - Monitoring				1		
Falcons - at retail - Clinical investigations						
Foxes - wild - unspecified - Clinical investigations				4		
Foxes - wild - unspecified - Monitoring				1		
Gallus gallus (fowl) - broilers - at farm - Clinical investigations						3
Gallus gallus (fowl) - broilers - at retail - Clinical investigations						1

Table Staphylococcus in Animals

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Gallus gallus (fowl) - laying hens - at farm - Clinical investigations						4
Goats - at farm - Clinical investigations				3		6
Goats - at farm - Survey - national survey						2
Guinea pigs - pet animals - at farm - Clinical investigations						1
Hares - wild - at farm - Clinical investigations						2
Hedgehogs - wild - unspecified - Survey - national survey						
Pheasants - at farm - Clinical investigations						1
Pigeons - at farm - Clinical investigations						3
Pigeons - unspecified - Clinical investigations						1
Pigs - at farm - Clinical investigations						2
Pigs - at farm - Clinical investigations						4
Pigs - at retail - Survey - national survey						
Pigs - at slaughterhouse - Clinical investigations						1
Rabbits - at farm - Clinical investigations						5
Rabbits - at retail - Clinical investigations						
Rodents - wild - unspecified - Monitoring				1		
Sheep - at farm - Clinical investigations				6		34

Table Staphylococcus in Animals

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Sheep - at farm - Clinical investigations						2
Sheep - at farm - Survey - national survey				5		29
Sheep - at retail - Survey - national survey				1		
Sheep and goats - at farm - Survey - national survey				7		3
Sheep and goats - at retail - Survey - national survey				7	1	5
Solipeds, domestic - at farm - Clinical investigations						
Solipeds, domestic - donkeys - at farm - Monitoring				1		
Solipeds, domestic - horses - at farm - Clinical investigations				11		
Solipeds, domestic - horses - at farm - Clinical investigations						4
Solipeds, domestic - horses - at farm - Monitoring				3		2
Solipeds, domestic - horses - at farm - Survey - national survey						2
Solipeds, domestic - horses - at retail - Survey - national survey						
Turkeys - at farm - Clinical investigations						
Water buffalos - at farm - Clinical investigations				1		

Table Staphylococcus in Animals

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified	S. aureus	S. intermedius	Staphylococ- cus spp., unspecified
Water buffalos - at farm - Survey - national survey						1
Wild animals - at retail - Clinical investigations						2
Wild boars - unspecified - Clinical investigations				1		
Wild boars - wild - unspecified - Clinical investigations						
Wolves - wild - unspecified - Clinical investigations				2		
Wolves - wild - unspecified - Monitoring				2		

2.13 Q-FEVER

2.13.1 General evaluation of the national situation

A. *Coxiella burnetii* (Q-fever) general evaluation

History of the disease and/or infection in the country

Q-fever is a zoonosis caused by a Gram negative bacteria, named *Coxiella burnetii*. Multiple host can serve as reservoir of infection. The most commonly sources of infection for human are farm animals, like cattle, sheep and goats; they shed bacteria in urine, faeces, milk and placental fluids, but ticks are considered to be the natural primary reservoirs of *C. burnetii*. Infection occurs by inhalation of organisms or ingestion of raw milk from animals to humans. *C. burnetii* can cause abortion in sheep and goats, but is unapparent in cattle.

National evaluation of the recent situation, the trends and sources of infection

In Italy the disease is still present in all regions. There is no specific monitoring plan, but the etiological agent is identified from aborted samples as a differential diagnosis with other agents. The disease has been a notifiable as prescribed by rule.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

Routine diagnosis of Q-fever is usually made by serological tests that have the disadvantage of indicating exposure rather than detecting the organism. The PCR technique has become a useful tool to detect *C. burnetii* in biological samples.

It is important early exchange of information between veterinary practitioners and animal health, to better identify the source of human cases and put in place preventive measures whenever possible. The data collection is done with harmonic systems and shared between the two sectors, because the harmonization of data collection is critical to define a framework of the evolution over time of the disease.

Suggestions to the European Union for the actions to be taken

It is important to the collection of data related to the disease in a uniform manner, in order to allow a comparison in the time of the available information regarding the position of Q fever in Europe. It also recalls the importance of quickly identify and report cases of the disease in animals, as well as to exchange information between veterinarians and operators of human health.

Also to be studied the role of ticks for transmission the disease to the human.

2.13.2 Coxiella (Q-fever) in animals

Table Coxiella burnetii (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Coxiella (Q-fever)	C. burnetii	No of clinically affected herds
Cattle (bovine animals) - at farm - Clinical investigations ¹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	8	0		0
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	5	0		0
Sheep - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	2	0		0
Goats - at farm - Clinical investigations ²⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	2	0		0
Goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	ELISA	herd/flock	18	11	11	0
Antelopes - wild - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	2	0		0
Antelopes - wild - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Complement fixation test (CFT)	Animal	4	0		0
Badgers - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Badgers - unspecified - Monitoring	Sinzoo	Unspecified	Official sampling		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Cantabrian chamois - unspecified - Clinical investigations	Sinzoo	Unspecified	Not applicable		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Cantabrian chamois - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	3	0		0
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	11	3		0
Cattle (bovine animals) - at farm - Clinical investigations ³⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	5	0		0
Cattle (bovine animals) - at farm - Clinical investigations ⁴⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	462	4	4	0
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Complement fixation test (CFT)	Animal	150	0		0
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	24	0		0
Cattle (bovine animals) - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	12	0		0
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	ELISA	Animal	10	0		0
Cattle (bovine animals) - at farm - Monitoring ⁵⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	Animal	29	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Cattle (bovine animals) - at farm - Monitoring ⁶⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	herd/flock	121	27	27	0
Cattle (bovine animals) - at farm - Monitoring	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	Complement fixation test (CFT)	herd/flock	3	0		0
Cattle (bovine animals) - at farm - Survey - national survey ⁷⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	17	0		0
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Complement fixation test (CFT)	herd/flock	5	2	2	0
Cattle (bovine animals) - at farm - Survey - national survey ⁸⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	29	6	6	0
Cattle (bovine animals) - at farm - Survey - national survey ⁹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	72	8	8	0
Cattle (bovine animals) - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	2707	36	36	0
Cattle (bovine animals) - at farm - Unspecified ¹⁰⁾	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Classification not possible	Animal	1362	0		0
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	ELISA	Animal	140	0		0
Cattle (bovine animals) - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Complement fixation test (CFT)	Animal	12	0		0
Cattle (bovine animals) - at retail - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Cattle (bovine animals) - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	ELISA	Animal	5	0		0
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	30	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Complement fixation test (CFT)	Animal	22	0		0
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations ¹¹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	2	0		0
Cattle (bovine animals) - dairy cows - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Complement fixation test (CFT)	Animal	19	0		0
Cattle (bovine animals) - dairy cows - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	ELISA	Animal	39	0		0
Cattle (bovine animals) - dairy cows - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	2	0		0
Cattle (bovine animals) - dairy cows - at farm - Unspecified ¹²⁾	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Classification not possible	Animal	6	0		0
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations ¹³⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	1	0		0
Deer - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Deer - unspecified - Monitoring ¹⁴⁾	Sinzoo	Unspecified	Official sampling		Domestic	Classification not possible	Animal	4	0		0
Deer - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Deer - wild - roe deer - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	8	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	4	0		0
Goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	31	14		0
Goats - at farm - Clinical investigations ¹⁵⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	6	1	1	0
Goats - at farm - Survey - national survey ¹⁶⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	17	6	6	0
Hedgehogs - wild - unspecified - Unspecified	Sinzoo	Unspecified	HACCP and own checks		Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Immunofluorescence antibody test (IFAT)	herd/flock	88	40		0
Sheep - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Complement fixation test (CFT)	herd/flock	1	0		0
Sheep - at farm - Clinical investigations ¹⁷⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	18	0		0
Sheep - at farm - Clinical investigations ¹⁸⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	14	0		0
Sheep - at farm - Monitoring ¹⁹⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	herd/flock	1	0		0
Sheep - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	15	3	3	0
Sheep - at farm - Survey - national survey ²⁰⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	3	0		0
Sheep - at farm - Survey - national survey ²¹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	5	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Sheep - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	2	0		0
Sheep and goats - at farm - Clinical investigations ²²⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	1	0		0
Sheep and goats - at farm - Clinical investigations ²³⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	10	0		0
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Complement fixation test (CFT)	Animal	315	0		0
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Sheep and goats - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	953	160	160	0
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	816	0		0
Sheep and goats - at farm - Monitoring ²⁴⁾	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Classification not possible	Animal	801	0		0
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	ELISA	herd/flock	1	1	1	0
Sheep and goats - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	ELISA	Animal	18	0		0
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	herd/flock	5	0		0
Sheep and goats - at farm - Survey - national survey ²⁵⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	110	5	5	0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	28	0		0
Sheep and goats - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	1525	253	253	0
Sheep and goats - at farm - Unspecified ²⁶⁾	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	Classification not possible	Animal	84	0		0
Sheep and goats - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	23	0		0
Sheep and goats - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	ELISA	Animal	22	0		0
Sheep and goats - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Solipeds, domestic - donkeys - at farm - Monitoring	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	ELISA	herd/flock	1	0		0
Solipeds, domestic - horses - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Solipeds, domestic - horses - at farm - Clinical investigations ²⁷⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	Animal	2	0		0
Solipeds, domestic - horses - at farm - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	1	0		0
Solipeds, domestic - horses - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Animal	2	0		0

Table *Coxiella burnetii* (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for <i>Coxiella</i> (Q-fever)	<i>C. burnetii</i>	No of clinically affected herds
Water buffalos - at farm - Clinical investigations ²⁸⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Classification not possible	herd/flock	12	0		0
Water buffalos - at farm - Clinical investigations	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	PCR-Real-time PCR (CEN TC275/WG6)	Holding	1	0		0
Water buffalos - at farm - Clinical investigations ²⁹⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	4	0		0
Water buffalos - at farm - Monitoring	Sinzoo	Objective sampling	Official sampling	animal sample	Domestic	Complement fixation test (CFT)	herd/flock	2	0		0
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	Animal	33	0		0
Water buffalos - at farm - Survey - national survey	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	ELISA	herd/flock	2	0		0
Water buffalos - at farm - Survey - national survey ³⁰⁾	Sinzoo	Unspecified	Not applicable	animal sample	Domestic	Unknown	Animal	127	0		0
Wild boars - unspecified - Survey - national survey	Sinzoo	Unspecified	Not applicable		Domestic	Immunofluorescence antibody test (IFAT)	Animal	192	14		0

	<i>Coxiella</i> spp., unspecified
Cattle (bovine animals) - at farm - Clinical investigations ¹⁾	
Cattle (bovine animals) - at farm - Monitoring	

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Sheep - at farm - Clinical investigations	
Sheep - at farm - Monitoring	
Goats - at farm - Clinical investigations ²⁾	
Goats - at farm - Monitoring	
Antelopes - wild - at farm - Clinical investigations	
Antelopes - wild - at farm - Unspecified	
Badgers - at farm - Monitoring	
Badgers - unspecified - Monitoring	
Cantabrian chamois - unspecified - Clinical investigations	
Cantabrian chamois - unspecified - Unspecified	
Cattle (bovine animals) - at farm - Clinical investigations	3
Cattle (bovine animals) - at farm - Clinical investigations ³⁾	
Cattle (bovine animals) - at farm - Clinical investigations ⁴⁾	
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Clinical investigations	

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Cattle (bovine animals) - at farm - Clinical investigations	
Cattle (bovine animals) - at farm - Monitoring	
Cattle (bovine animals) - at farm - Monitoring ⁵⁾	
Cattle (bovine animals) - at farm - Monitoring ⁶⁾	
Cattle (bovine animals) - at farm - Monitoring	
Cattle (bovine animals) - at farm - Survey - national survey ⁷⁾	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Survey - national survey ⁸⁾	
Cattle (bovine animals) - at farm - Survey - national survey ⁹⁾	
Cattle (bovine animals) - at farm - Survey - national survey	
Cattle (bovine animals) - at farm - Unspecified ¹⁰⁾	
Cattle (bovine animals) - at farm - Unspecified	
Cattle (bovine animals) - at farm - Unspecified	
Cattle (bovine animals) - at retail - Clinical investigations	
Cattle (bovine animals) - at retail - Unspecified	

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations	
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations ¹¹⁾	
Cattle (bovine animals) - dairy cows - at farm - Unspecified	
Cattle (bovine animals) - dairy cows - at farm - Unspecified	
Cattle (bovine animals) - dairy cows - at farm - Unspecified	
Cattle (bovine animals) - dairy cows - at farm - Unspecified ¹²⁾	
Cattle (bovine animals) - meat production animals - calves (under 1 year) - at farm - Clinical investigations ¹³⁾	
Deer - at farm - Monitoring	
Deer - unspecified - Monitoring ¹⁴⁾	
Deer - unspecified - Unspecified	
Deer - wild - roe deer - unspecified - Unspecified	
Goats - at farm - Clinical investigations	
Goats - at farm - Clinical investigations	14

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Goats - at farm - Clinical investigations ¹⁵⁾	
Goats - at farm - Survey - national survey ¹⁶⁾	
Hedgehogs - wild - unspecified - Unspecified	
Sheep - at farm - Clinical investigations	40
Sheep - at farm - Clinical investigations	
Sheep - at farm - Clinical investigations ¹⁷⁾	
Sheep - at farm - Clinical investigations ¹⁸⁾	
Sheep - at farm - Monitoring ¹⁹⁾	
Sheep - at farm - Survey - national survey	
Sheep - at farm - Survey - national survey ²⁰⁾	
Sheep - at farm - Survey - national survey ²¹⁾	
Sheep - at farm - Unspecified	
Sheep and goats - at farm - Clinical investigations ²²⁾	
Sheep and goats - at farm - Clinical investigations ²³⁾	
Sheep and goats - at farm - Clinical investigations	
Sheep and goats - at farm - Clinical investigations	

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Sheep and goats - at farm - Clinical investigations	
Sheep and goats - at farm - Monitoring	
Sheep and goats - at farm - Monitoring ²⁴⁾	
Sheep and goats - at farm - Monitoring	
Sheep and goats - at farm - Monitoring	
Sheep and goats - at farm - Survey - national survey	
Sheep and goats - at farm - Survey - national survey ²⁵⁾	
Sheep and goats - at farm - Survey - national survey	
Sheep and goats - at farm - Survey - national survey	
Sheep and goats - at farm - Unspecified ²⁶⁾	
Sheep and goats - at farm - Unspecified	
Sheep and goats - at farm - Unspecified	
Sheep and goats - at retail - Unspecified	
Solipeds, domestic - donkeys - at farm - Monitoring	
Solipeds, domestic - horses - at farm - Clinical investigations	

Table *Coxiella burnetii* (Q fever) in animals

	Coxiella spp., unspecified
Solipeds, domestic - horses - at farm - Clinical investigations ²⁷⁾	
Solipeds, domestic - horses - at farm - Unspecified	
Solipeds, domestic - horses - at retail - Unspecified	
Water buffalos - at farm - Clinical investigations ²⁸⁾	
Water buffalos - at farm - Clinical investigations	
Water buffalos - at farm - Clinical investigations ²⁹⁾	
Water buffalos - at farm - Monitoring	
Water buffalos - at farm - Survey - national survey	
Water buffalos - at farm - Survey - national survey	
Water buffalos - at farm - Survey - national survey ³⁰⁾	
Wild boars - unspecified - Survey - national survey	14

Comments:

- ¹⁾ Multiple methods used
- ²⁾ For 2 samples the method -Nested PCR- has been used
- ³⁾ For 5 samples the method -Nested PCR- has been used

Table Coxiella burnetii (Q fever) in animals

Comments:

- 4) Multiple methods used
- 5) Multiple methods used
- 6) Multiple methods used
- 7) For 17 samples the method -Nested PCR- has been used
- 8) Multiple methods used
- 9) Multiple methods used
- 10) Multiple methods used
- 11) Used Method (PCR) - Multiplex PCR) is not mapped in EFSA pickLists
- 12) Multiple methods used
- 13) Used Method (PCR) - Multiplex PCR) is not mapped in EFSA pickLists
- 14) Multiple methods used
- 15) Multiple methods used
- 16) Multiple methods used
- 17) Multiple methods used
- 18) For 14 samples the method -Nested PCR- has been used
- 19) Used Method (PCR) - Multiplex PCR) is not mapped in EFSA pickLists
- 20) Multiple methods used
- 21) For 5 samples the method -Nested PCR- has been used
- 22) For 1 samples the method -Nested PCR- has been used
- 23) Multiple methods used
- 24) Multiple methods used
- 25) Multiple methods used

Table Coxiella burnetii (Q fever) in animals

Comments:

- ²⁶⁾ Multiple methods used
- ²⁷⁾ Multiple methods used
- ²⁸⁾ Used Method ((PCR) - Multiplex PCR) is not mapped in EFSA pickLists
- ²⁹⁾ For 4 samples the method -Nested PCR- has been used
- ³⁰⁾ For 127 samples the method -Nested PCR- has been used

2.14 WEST NILE VIRUS INFECTIONS

2.14.1 General evaluation of the national situation

2.14.2 West Nile Virus Infections in humans

A. West Nile Virus in Humans

Reporting system in place for the human cases

Human surveillance is conducted at the national level by the National Centre for Epidemiology, surveillance and Health Promotion, and as far as laboratory confirmation by the Department of Infectious Diseases, Parasitic Immunomediated Institute of Health. The coordination is carried out by the Directorate -General V of the Prevention of the Ministry of Health who transmits data to the European Commission and the ECDC. The regions, define the regulatory and programmatic documents for the epidemiological surveillance and laboratory on their territory and transmit the data to the Istituto Superiore di Sanità and the Ministry of Health.

Case definition

Possible case: any person with a high fever ($> 38.5^{\circ}\text{C}$) and at least one of the following neurological manifestations: encephalitis, meningitis or polyradiculoneuritis clear liquor (like Guillain Barré syndrome) or acute flaccid paralysis.

Probable case: The symptoms described above and / or one of the following laboratory criteria: presence of IgM and / or IgG anti-WNV in serum or blood tested.

Confirmed case: the symptoms described above and / or the fulfilment of at least two of the following parameters: isolation of WN virus in blood or CSF; presence of IgM antibodies in the CSF; PCR positive for WN virus in the blood, cerebrospinal fluid, or urine; seroconversion from negative to positive or 4-fold increase in the titre of anti-WNV on two consecutive serum samples confirmation of the specificity of the antibody by neutralization test.

Diagnostic/analytical methods used

The diagnosis in humans is mainly carried out through laboratory tests of serum and, where indicated, of liquor, for the detection of antibodies of the IgM type.

The seroconversion or 4-fold rise in antibody titer can be used to diagnose recent infection.

The diagnosis can also be made through PCR or viral culture on samples of serum or CSF within 7 days after symptom onset acute. The urine, however, can be PCR positive until a few weeks after the onset of the disease and may be a suitable sample for diagnosis.

Notification system in place

Probable and confirmed cases have to be notified immediately or into 12 hours by doctors to the Local Health authority, who report all the information to the Health regional authority and then to the Ministry of health.

History of the disease and/or infection in the country

During the first outbreak of infection in Italy in 1998 in Tuscany no human case have been reported, antibody positivity were detected in workers employed on the farms where equine cases have been identified. In 2008, neuro-invasive cases have been confirmed in Emilia-Romagna and Veneto regions. In 2009, 2010, 2011 and 2012 human cases of WNND have been confirmed both in areas previously affected by viral circulation and in new territories.

Results of the investigation

From 2008 to 2012 neuro-invasive cases of West Nile Disease have been reported in humans in Veneto, Emilia-Romagna, Sardinia, Friuli Venezia Giulia, Lombardy and Basilicata regions. In 2012 28 neuro-invasive cases of West Nile Disease have been reported in humans, Veneto, Sardinia and Friuli Venezia Giulia regions 5 blood donors and 17 people with West Nile fever tested positive for WNV in Veneto Region.

National evaluation of the recent situation, the trends and sources of infection

The number of confirmed human cases increased from eight in 2008 to 18 in 2009 and the occurrence of the virus involved a larger geographical area in 2009 (moving from east to west). Between 2010 and 2012, 45 cases of WNND (3 in 2010, 14 in 2011 and 28 in 2012) were reported from six regions involved by virus circulation in animals. Humans are considered incidental or dead-end hosts.

2.14.3 West Nile Virus in animals

A. West Nile Virus in Animals

Monitoring system

Sampling strategy

In Italy since 2001, a multi-species surveillance plan including birds, chicken, horses, mosquitoes has been put in place to early detect the virus re-introduction and to monitor the possible spread of the infection. National surveillance activities were restored and updated yearly according to the epidemiological situation. Three different epidemiological areas were identified: area with virus circulation (AVC), surveillance zone (SZ) (the territories surrounding the AVC for an extension of 20 km) areas at risk (AR) (wetlands characterized by the presence of a significant number of water fowls including species of migratory birds). The implementation of surveillance activities varies according to epidemiological area.

Frequency of the sampling

Sentinel horses have to be sampled 3 times per year (May-August-end of September) in the AR. According to the surveillance of resident birds, 100 carcasses every 1200-1600 Km² in all the epidemiological areas have to be tested from March to November. In case less than 50% of planned activities are performed, surveillance can alternatively be conducted on rural or free range poultry rearing units (to be sampled one time per year) or by positioning groups of sentinel chickens (to be sampled every month from March to October). The entomological surveillance is based on a net of collection sites with the aim of identify possible vector species and detect the presence of WNV. Mosquitoes were collected by using different traps and methods. Mosquitoes pool collections were performed every month in AVC and surveillance zone, and from March to October in at risky areas.

Type of specimen taken

Organs and blood samples were collected for serological and virological survey.

Case definition

The definition of ¿suspected case of WND¿ is established by the Order of 4th August 2011: ¿equidae suspected to have West Nile Disease: an equidae living in at-risk zones which, during the activity period of the vectors, develops ataxia or sudden death, or at least one of the following symptoms: circular movements; inability to maintain quadrupedal stance; paralysis/paresis of limbs; muscle twitching; proprioceptive deficits. These symptoms may be accompanied by: weakness of the hind limbs; blindness; ptosis of the lower lip, or paresis of the labial or facial muscles; tooth grinding. A seropositive result must give rise to a suspicion of West Nile encephalomyelitis, even in the absence of clinical symptoms.¿ Confirmation of suspicion: The diagnostic suspicion is confirmed when samples taken from the suspect equidae result positive by one or more confirmatory laboratory methods performed by CESME.

Diagnostic/analytical methods used

The diagnosis is mainly carried out through laboratory tests of serum or cerebrospinal fluid for the detection of antibodies of the IgM type. The PRNT and SN are the most specific serological tests for WND diagnosis. The seroconversion or 2-fold rise in antibody titer can be used to diagnose recent infection. The direct diagnosis can be made through PCR, viral culture on samples of blood, cerebrospinal fluid, organs, vectors.

Vaccination policy

It has been possible to vaccinate equines since July 2009 on an optional basis, at the owner¿s expense. In Italy two vaccines are available: inactivated vaccine; recombinant vaccine.

Control program/mechanisms

Recent actions taken to control the zoonoses

From 2010, in the framework of the human national surveillance plan, vector control, screening of blood, tissue and solid organ donors have been implemented during the period with the highest vector activity.

Measures in case of the positive findings or single cases

Every time WNV cases are confirmed in equines, poultry, birds or mosquitoes surveillance activity are implemented to better understand the geographical spread of the infection.

Notification system in place

WND outbreaks in equines and poultry and positivity in birds and mosquitoes are notified by the Health Regional Authority in the Italian information system for outbreak notification and health emergencies management (SIMAN), compatible respectively with EU (Animal Diseases Notification System & ADNS) and OIE (World Animal Health Information System & WAHIS) systems, and it is able to transfer automatically data towards UE and OIE.

Results of the investigation

In 2012 WND cases were confirmed in 30 horse stables. Fifteen horses in Veneto and Friuli Venezia Giulia showed WND clinical signs, the first clinical cases were reported in August.

Samples of organs taken from 21 birds were positive by PCR for WND. Five outbreaks in poultry were confirmed in Matera province, Basilicata region. 14 mosquito pools (*Culex pipiens*) collected between July and August 2012 were positive by RT-PCR: 12 were positive for WND lineage I (Veneto and Friuli Venezia Giulia) and 2 for WND lineage II (Veneto and Sardegna).

National evaluation of the recent situation, the trends and sources of infection

The first outbreak in Italy took place in the late summer of 1998, when some cases of WND were clinically manifested in horses stabled in the area surrounding Fucecchio Marshes in Tuscany.

In August 2008, WND reappeared in Italy in the River Po delta area. Other outbreaks occurred in 2009, 2010, 2011, 2012 involving new areas in central and southern Italy. The infection caused clinical symptoms, not only in equines but also in humans and in some birds.

After 1998, WNV epidemics re-emerged in Italy from 2008 to 2012. Outbreaks in man or in animals occurred in different periods in different Italian regions. In Veneto region (northern Italy) WNV was detected every year in man or animals. Clinical cases were generally observed from July to October. The case-fatality rate in horses from 1998 to 2012 was equal to 23.9% (95% CI: 17.6-31.6%). Clinical signs were also reported in 2011 for the first time in birds. Moreover, 46 mosquito pools tested RT-PCR positive, and few serological positivity were detected in poultry. Both Lineage 1 and 2 were detected in birds and mosquitoes pools.

The reoccurrence of WND, involving humans and equines, is likely to be linked to the endemisation of the infection in some territories, as well as new introduction of the virus by migratory birds. The co-circulation of WNV strains belonging to lineage 1 and lineage 2 enhances the possible occurrence of homologous or heterologous recombination which may affect the diagnosis, virulence and transmission of these strains. Clinical cases generally occur from July to September, the most common vectors are mosquitoes of *Culex* genus, feeding mostly on birds and mammals; birds are the primary vertebrate hosts.

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Birds - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Sardegna	1	0
Birds - at farm - Monitoring	¹⁾ National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	1	0
Birds - at farm - Monitoring	²⁾ National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sardegna	1	0
Birds - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	1	0
Birds - unspecified - Monitoring	³⁾ National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sardegna	2	0
Birds - unspecified - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Sardegna	629	8
Birds - unspecified - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	1196	8

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Birds - unspecified - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Emilia-Romagna	567	0
Birds - unspecified - Monitoring	4) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	2	0
Ducks - at farm - Monitoring	5) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Sicilia	1	0
Ducks - at farm - Monitoring	6) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Basilicata	2	0
Ducks - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Umbria	4	0
Ducks - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Italia	5	0
Ducks - at farm - Monitoring	7) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Italia	7	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Ducks - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Sicilia	1	0
Ducks - at farm - Monitoring	8) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Umbria	4	0
Gallus gallus (fowl) - at farm - Monitoring	9) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Campania	4	4
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	herd/flock	Umbria	3	0
Gallus gallus (fowl) - at farm - Monitoring	10) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Calabria	1	0
Gallus gallus (fowl) - at farm - Monitoring	11) National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Umbria	88	11
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Molise	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Umbria	11	1
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	herd/flock	Sicilia	7	0
¹²⁾ Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Molise	4	3
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Sicilia	7	0
¹³⁾ Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Sicilia	142	21
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	herd/flock	Italia	10	0
¹⁴⁾ Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Basilicata	30	17

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
15) Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Abruzzo	5	3
16) Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Italia	274	59
Gallus gallus (fowl) - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Italia	19	1
17) Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Basilicata	1	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	herd/flock	Sicilia	1	0
18) Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Umbria	7	1
Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Umbria	2	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Italia	3	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	herd/flock	Sicilia	1	0
¹⁹⁾ Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Italia	14	2
Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	herd/flock	Italia	1	0
²⁰⁾ Gallus gallus (fowl) - unspecified - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	herd/flock	Sicilia	6	1
²¹⁾ Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Friuli-Venezia Giulia	1	1
²²⁾ Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Campania	5	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
23) Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Veneto	1	0
24) Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	7	1
Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Emilia-Romagna	1	0
Solipeds, domestic - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	1	0
25) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Calabria	4	3
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Italia	36	0
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Sardegna	36	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
26) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Veneto	2	2
27) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Puglia	4	0
28) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Umbria	3	1
29) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sardegna	19	1
30) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Campania	1	0
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	3	0
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Piemonte	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - donkeys - at farm - Monitoring ³¹⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	3	3
Solipeds, domestic - donkeys - at farm - Monitoring ³²⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sicilia	7	0
Solipeds, domestic - donkeys - at farm - Monitoring ³³⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	56	7
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Umbria	3	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁴⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Lazio	11	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁵⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Friuli-Venezia Giulia	4	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁶⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Abruzzo	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	1	0
37) Solipeds, domestic - donkeys - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Veneto	3	3
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Basilicata	2	0
38) Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Marche	38	10
39) Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Friuli-Venezia Giulia	92	34
40) Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Umbria	107	36
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Sardegna	309	10

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁴¹⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Puglia	2	1
Solipeds, domestic - horses - at farm - Monitoring ⁴²⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Basilicata	4	1
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Piemonte	3	0
Solipeds, domestic - horses - at farm - Monitoring ⁴³⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	1345	312
Solipeds, domestic - horses - at farm - Monitoring ⁴⁴⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Emilia-Romagna	21	19
Solipeds, domestic - horses - at farm - Monitoring ⁴⁵⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Lazio	124	20
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Trento	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁴⁶⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Abruzzo	38	7
Solipeds, domestic - horses - at farm - Monitoring ⁴⁷⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Calabria	43	12
Solipeds, domestic - horses - at farm - Monitoring ⁴⁸⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Liguria	1	0
Solipeds, domestic - horses - at farm - Monitoring ⁴⁹⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Marche	2	0
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	3	0
Solipeds, domestic - horses - at farm - Monitoring ⁵⁰⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Lombardia	5	1
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Seroneutralisation test	Animal	Liguria	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁵¹⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Veneto	101	79
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Umbria	1	0
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Italia	10	0
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Sardegna	8	0
Solipeds, domestic - horses - at farm - Monitoring ⁵²⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Puglia	187	8
Solipeds, domestic - horses - at farm - Monitoring ⁵³⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Veneto	48	32
Solipeds, domestic - horses - at farm - Monitoring ⁵⁴⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Friuli-Venezia Giulia	107	82

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁵⁵⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sardegna	137	49
Solipeds, domestic - horses - at farm - Monitoring ⁵⁶⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sicilia	76	1
Solipeds, domestic - horses - at farm - Monitoring ⁵⁷⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Campania	1	1
Solipeds, domestic - horses - at farm - Monitoring ⁵⁸⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Emilia-Romagna	3	1
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Sardegna	3	0
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Seroneutralisation test	Animal	Italia	1	0
Solipeds, domestic - horses - at farm - Monitoring ⁵⁹⁾	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Lazio	43	5

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Italia	8	0
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (GEN TC275/WG6)	Animal	Campania	2	0
⁶⁰⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Molise	258	23
⁶¹⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Piemonte	35	2
⁶²⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Campania	94	27
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	ELISA	Animal	Italia	310	10
⁶³⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Sardegna	65	22

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	PCR-Real-time PCR (CEN TC275/WG6)	Animal	Veneto	2	0
⁶⁴⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	314	167
⁶⁵⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Umbria	6	2
⁶⁶⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Piemonte	10	1
⁶⁷⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Liguria	8	2
⁶⁸⁾ Solipeds, domestic - horses - at farm - Monitoring	National Information System for Animal Diseases	Suspect sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Abruzzo	3	1
⁶⁹⁾ Solipeds, domestic - horses - unspecified - Monitoring	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Italia	1	1

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - unspecified - Monitoring ⁷⁰⁾	National Information System for Animal Diseases	Objective sampling	Official sampling	animal sample	Domestic	Unknown	Classification not possible	Animal	Friuli-Venezia Giulia	1	1

	West Nile Virus
Birds - at farm - Monitoring	0
Birds - at farm - Monitoring ¹⁾	0
Birds - at farm - Monitoring ²⁾	0
Birds - at farm - Monitoring	0
Birds - unspecified - Monitoring ³⁾	0
Birds - unspecified - Monitoring	8
Birds - unspecified - Monitoring	8
Birds - unspecified - Monitoring	0
Birds - unspecified - Monitoring ⁴⁾	0
Ducks - at farm - Monitoring ⁵⁾	0
Ducks - at farm - Monitoring ⁶⁾	0
Ducks - at farm - Monitoring	0
Ducks - at farm - Monitoring	0

Table West Nile Virus in Animals

	West Nile Virus
Ducks - at farm - Monitoring ⁷⁾	0
Ducks - at farm - Monitoring	0
Ducks - at farm - Monitoring ⁸⁾	0
Gallus gallus (fowl) - at farm - Monitoring ⁹⁾	4
Gallus gallus (fowl) - at farm - Monitoring	0
Gallus gallus (fowl) - at farm - Monitoring ¹⁰⁾	0
Gallus gallus (fowl) - at farm - Monitoring ¹¹⁾	11
Gallus gallus (fowl) - at farm - Monitoring	0
Gallus gallus (fowl) - at farm - Monitoring	1
Gallus gallus (fowl) - at farm - Monitoring	0
Gallus gallus (fowl) - at farm - Monitoring ¹²⁾	3
Gallus gallus (fowl) - at farm - Monitoring	0
Gallus gallus (fowl) - at farm - Monitoring ¹³⁾	21
Gallus gallus (fowl) - at farm - Monitoring	0
Gallus gallus (fowl) - at farm - Monitoring ¹⁴⁾	17
Gallus gallus (fowl) - at farm - Monitoring ¹⁵⁾	3
Gallus gallus (fowl) - at farm - Monitoring ¹⁶⁾	59
Gallus gallus (fowl) - at farm - Monitoring	1

Table West Nile Virus in Animals

	West Nile Virus
Gallus gallus (fowl) - unspecified - at farm - Monitoring ¹⁷⁾	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring ¹⁸⁾	1
Gallus gallus (fowl) - unspecified - at farm - Monitoring	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring ¹⁹⁾	2
Gallus gallus (fowl) - unspecified - at farm - Monitoring	0
Gallus gallus (fowl) - unspecified - at farm - Monitoring ²⁰⁾	1
Solipeds, domestic - at farm - Monitoring ²¹⁾	1
Solipeds, domestic - at farm - Monitoring ²²⁾	0
Solipeds, domestic - at farm - Monitoring ²³⁾	0
Solipeds, domestic - at farm - Monitoring ²⁴⁾	1
Solipeds, domestic - at farm - Monitoring	0

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring ²⁵⁾	3
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring ²⁶⁾	2
Solipeds, domestic - donkeys - at farm - Monitoring ²⁷⁾	0
Solipeds, domestic - donkeys - at farm - Monitoring ²⁸⁾	1
Solipeds, domestic - donkeys - at farm - Monitoring ²⁹⁾	1
Solipeds, domestic - donkeys - at farm - Monitoring ³⁰⁾	0
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring ³¹⁾	3
Solipeds, domestic - donkeys - at farm - Monitoring ³²⁾	0

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - donkeys - at farm - Monitoring ³³⁾	7
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁴⁾	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁵⁾	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁶⁾	0
Solipeds, domestic - donkeys - at farm - Monitoring	0
Solipeds, domestic - donkeys - at farm - Monitoring ³⁷⁾	3
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ³⁸⁾	10
Solipeds, domestic - horses - at farm - Monitoring ³⁹⁾	34
Solipeds, domestic - horses - at farm - Monitoring ⁴⁰⁾	36
Solipeds, domestic - horses - at farm - Monitoring	10

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁴¹⁾	1
Solipeds, domestic - horses - at farm - Monitoring ⁴²⁾	1
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁴³⁾	312
Solipeds, domestic - horses - at farm - Monitoring ⁴⁴⁾	19
Solipeds, domestic - horses - at farm - Monitoring ⁴⁵⁾	20
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁴⁶⁾	7
Solipeds, domestic - horses - at farm - Monitoring ⁴⁷⁾	12
Solipeds, domestic - horses - at farm - Monitoring ⁴⁸⁾	0
Solipeds, domestic - horses - at farm - Monitoring ⁴⁹⁾	0
Solipeds, domestic - horses - at farm - Monitoring	0

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁵⁰⁾	1
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁵¹⁾	79
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁵²⁾	8
Solipeds, domestic - horses - at farm - Monitoring ⁵³⁾	32
Solipeds, domestic - horses - at farm - Monitoring ⁵⁴⁾	82
Solipeds, domestic - horses - at farm - Monitoring ⁵⁵⁾	49
Solipeds, domestic - horses - at farm - Monitoring ⁵⁶⁾	1
Solipeds, domestic - horses - at farm - Monitoring ⁵⁷⁾	1

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁵⁸⁾	1
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁵⁹⁾	5
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring	0
Solipeds, domestic - horses - at farm - Monitoring ⁶⁰⁾	23
Solipeds, domestic - horses - at farm - Monitoring ⁶¹⁾	2
Solipeds, domestic - horses - at farm - Monitoring ⁶²⁾	27
Solipeds, domestic - horses - at farm - Monitoring	10
Solipeds, domestic - horses - at farm - Monitoring ⁶³⁾	22
Solipeds, domestic - horses - at farm - Monitoring	0

Table West Nile Virus in Animals

	West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring ⁶⁴⁾	167
Solipeds, domestic - horses - at farm - Monitoring ⁶⁵⁾	2
Solipeds, domestic - horses - at farm - Monitoring ⁶⁶⁾	1
Solipeds, domestic - horses - at farm - Monitoring ⁶⁷⁾	2
Solipeds, domestic - horses - at farm - Monitoring ⁶⁸⁾	1
Solipeds, domestic - horses - unspecified - Monitoring ⁶⁹⁾	1
Solipeds, domestic - horses - unspecified - Monitoring ⁷⁰⁾	1

Comments:

- 1) Multiple methods used
- 2) Multiple methods used
- 3) Multiple methods used
- 4) Multiple methods used
- 5) Multiple methods used
- 6) Multiple methods used
- 7) Multiple methods used

Table West Nile Virus in Animals

Comments:

- 8) Multiple methods used
- 9) Multiple methods used
- 10) Multiple methods used
- 11) Multiple methods used
- 12) Multiple methods used
- 13) Multiple methods used
- 14) Multiple methods used
- 15) Multiple methods used
- 16) Multiple methods used
- 17) Multiple methods used
- 18) Multiple methods used
- 19) Multiple methods used
- 20) Multiple methods used
- 21) Multiple methods used
- 22) Multiple methods used
- 23) Multiple methods used
- 24) Multiple methods used
- 25) Multiple methods used
- 26) Multiple methods used
- 27) Multiple methods used
- 28) Multiple methods used
- 29) Multiple methods used

Table West Nile Virus in Animals

Comments:

- ³⁰⁾ Multiple methods used
- ³¹⁾ Multiple methods used
- ³²⁾ Multiple methods used
- ³³⁾ Multiple methods used
- ³⁴⁾ Multiple methods used
- ³⁵⁾ Multiple methods used
- ³⁶⁾ Multiple methods used
- ³⁷⁾ Multiple methods used
- ³⁸⁾ Multiple methods used
- ³⁹⁾ Multiple methods used
- ⁴⁰⁾ Multiple methods used
- ⁴¹⁾ Multiple methods used
- ⁴²⁾ Multiple methods used
- ⁴³⁾ Multiple methods used
- ⁴⁴⁾ Multiple methods used
- ⁴⁵⁾ Multiple methods used
- ⁴⁶⁾ Multiple methods used
- ⁴⁷⁾ Multiple methods used
- ⁴⁸⁾ Multiple methods used
- ⁴⁹⁾ Multiple methods used
- ⁵⁰⁾ Multiple methods used
- ⁵¹⁾ Multiple methods used

Table West Nile Virus in Animals

Comments:

- 52) Multiple methods used
- 53) Multiple methods used
- 54) Multiple methods used
- 55) Multiple methods used
- 56) Multiple methods used
- 57) Multiple methods used
- 58) Multiple methods used
- 59) Multiple methods used
- 60) Multiple methods used
- 61) Multiple methods used
- 62) Multiple methods used
- 63) Multiple methods used
- 64) Multiple methods used
- 65) Multiple methods used
- 66) Multiple methods used
- 67) Multiple methods used
- 68) Multiple methods used
- 69) Multiple methods used
- 70) Multiple methods used

3. INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL RESISTANCE

3.1 ESCHERICHIA COLI, NON-PATHOGENIC

3.1.1 General evaluation of the national situation

3.2 ENTEROCOCCUS, NON-PATHOGENIC

3.2.1 General evaluation of the national situation

4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS

4.1 CRONOBACTER

4.1.1 General evaluation of the national situation

4.1.2 Cronobacter in foodstuffs

Table Cronobacter in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Cronobacter	Cronobacter sakazakii	Cronobacter spp. unspecified
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Bakery products - bread - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	0	
Bakery products - desserts - containing heat-treated cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Bakery products - desserts - containing heat-treated cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	0	
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	

Table Cronobacter in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Cronobacter	Cronobacter sakazakii	Cronobacter spp. unspecified
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Dairy products (excluding cheeses) - cream - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	0	
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	0	
Dairy products (excluding cheeses) - cream - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	0	
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0	0	
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	0	
Eggs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Fish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Fish - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	0	
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	0	
Fruits - products - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	0	

Table Cronobacter in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Cronobacter	Cronobacter sakazakii	Cronobacter spp. unspecified
Fruits - products - dried - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	0	
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Infant formula - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0	0	
Infant formula - liquid - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	0	
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Meat from other animal species or not specified - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	0	
Meat from other animal species or not specified - meat products - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	8	0	0	
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Milk from other animal species or unspecified - UHT milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Milk from other animal species or unspecified - raw milk - made from pasteurised milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	0	
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	0	
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	0	

Table Cronobacter in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Cronobacter	Cronobacter sakazakii	Cronobacter spp. unspecified
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	2	0	0	
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	
Other processed food products and prepared dishes - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	3	0	0	
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	0	

4.2 HISTAMINE

4.2.1 General evaluation of the national situation

4.2.2 Histamine in foodstuffs

Table Histamine in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg
Beverages, non-alcoholic - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1		0	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	10 Gram	5		0	
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1			0
Dairy products (excluding cheeses) - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	10 Gram	1		0	
Fish - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	6			
Fish - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	10 Gram	5			0
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	10 Gram	128			2
Fish - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	54			1
Fish - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	10 Gram	1			
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	197			2

Table Histamine in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg
Fish - marinated - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	10 Gram	1		0	
Fish - marinated - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1			
Fish - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1			0
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	9			0
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	10 Gram	12		0	
Fish - unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	10 Gram	3			
Fish - unspecified - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	10 Gram	10		0	
Fish - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	35		0	
Fish - unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	10 Gram	6			
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	25			
Fishery products, unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	10 Gram	3			
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	10 Gram	3			
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	10 Gram	300		0	
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	160			

Table Histamine in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg
Fishery products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2			
Fishery products, unspecified - at processing plant - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	10 Gram	14			
Fishery products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	10 Gram	18			0
Fishery products, unspecified - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	9			
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	10 Gram	6			
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	231		0	
Fishery products, unspecified - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	10 Gram	19			
Meat from other animal species or not specified - fresh - at retail - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	10 Gram	1			0
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1			
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	1		0	
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	2		1	
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	10 Gram	6		0	

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Beverages, non-alcoholic - at retail - Surveillance		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance		
Dairy products (excluding cheeses) - at processing plant - Surveillance		
Dairy products (excluding cheeses) - at processing plant - Survey - national survey		
Fish - at catering - Surveillance	0	
Fish - at processing plant - Surveillance		
Fish - at processing plant - Surveillance		
Fish - at processing plant - Surveillance		
Fish - at processing plant - Survey - national survey		0
Fish - at retail - Surveillance		
Fish - marinated - at processing plant - Surveillance		
Fish - marinated - at retail - Surveillance		0
Fish - unspecified - at catering - Surveillance		
Fish - unspecified - at processing plant - Surveillance		
Fish - unspecified - at processing plant - Surveillance		

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Fish - unspecified - at processing plant - Survey - national survey	0	
Fish - unspecified - at retail - Surveillance		
Fish - unspecified - at retail - Surveillance		
Fish - unspecified - at retail - Unspecified		1
Fishery products, unspecified - at catering - Surveillance		6
Fishery products, unspecified - at farm - Surveillance		0
Fishery products, unspecified - at processing plant - Surveillance		0
Fishery products, unspecified - at processing plant - Surveillance		
Fishery products, unspecified - at processing plant - Surveillance	0	
Fishery products, unspecified - at processing plant - Surveillance		0
Fishery products, unspecified - at processing plant - Survey - national survey		0
Fishery products, unspecified - at processing plant - Unspecified		
Fishery products, unspecified - at processing plant - Unspecified		0

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Fishery products, unspecified - at retail - Surveillance	0	
Fishery products, unspecified - at retail - Surveillance		
Fishery products, unspecified - at retail - Unspecified	0	
Meat from other animal species or not specified - fresh - at retail - Unspecified		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	0	
Meat from other animal species or not specified - meat products - at retail - Surveillance		
Other processed food products and prepared dishes - unspecified - at catering - Surveillance		
Other processed food products and prepared dishes - unspecified - at retail - Surveillance		

4.3 STAPHYLOCOCCAL ENTEROTOXINS

4.3.1 General evaluation of the national situation

4.3.2 Staphylococcal enterotoxins in foodstuffs

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	9	0	
All foodstuffs - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	
All foodstuffs - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	3	
Bakery products - desserts - containing raw eggs and cream - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Bakery products - pastry - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	7	1	
Bakery products - pastry - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	6	0	
Bakery products - pastry - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Cheeses made from cows' milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0	
Cheeses made from cows' milk - hard - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	28	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	
Cheeses made from cows' milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Cheeses made from sheep's milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Cheeses made from sheep's milk - hard - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	34	0	
Cheeses, made from unspecified milk or other animal milk - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	0	
Cheeses, made from unspecified milk or other animal milk - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	10	0	
Cheeses, made from unspecified milk or other animal milk - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	22	1	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	312	3	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	25	0	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	12	0	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	34	0	
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	104	1	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	33	0	
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	73	1	1
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	11	0	
Crustaceans - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Dairy products (excluding cheeses) - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	1	0	
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	2	0	
Dairy products (excluding cheeses) - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	483	0	
Dairy products (excluding cheeses) - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	32	0	
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	65	0	
Dairy products (excluding cheeses) - butter - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Dairy products (excluding cheeses) - cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Dairy products (excluding cheeses) - cream - at retail - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	12	0	
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	1	0	
Dairy products (excluding cheeses) - milk powder and whey powder - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Dairy products, unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	20	0	
Dairy products, unspecified - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Fish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	
Fish - unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Fish - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling		Domestic	Single	25 Gram	3	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Fishery products, unspecified - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Fishery products, unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	
Fishery products, unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Fruits and vegetables - products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Juice - fruit juice - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Meat from bovine animals - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Meat from other animal species or not specified - fresh - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	Sinzoo	Unspecified	Not applicable	food sample	Domestic	Single	25 Gram	1	0	
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Meat from other animal species or not specified - meat preparation - at retail - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Meat from other animal species or not specified - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Meat from other animal species or not specified - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	
Meat from other animal species or not specified - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	
Meat from pig - fresh - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	
Meat from pig - meat products - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	
Meat from pig - meat products - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	15	0	
Meat from pig - meat products - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	5	0	
Meat from pig - offal - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	41	1	1
Milk from other animal species or unspecified - at farm - Surveillance	Sinzoo	Unspecified	Official sampling	animal sample	Domestic	Single	25 Gram	85	0	
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	6	0	
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	110	0	
Milk from other animal species or unspecified - at processing plant - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	0	
Milk from other animal species or unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Milk, cows' - pasteurised milk - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Molluscan shellfish - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Other processed food products and prepared dishes - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	2	0	
Other processed food products and prepared dishes - pasta - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	3	0	
Other processed food products and prepared dishes - pasta - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	4	1	
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	environmental sample	Domestic	Single	25 Gram	2	0	
Other processed food products and prepared dishes - unspecified - at catering - Surveillance	Sinzoo	Suspect sampling	Official sampling	food sample	Domestic	Single	25 Gram	10	0	
Other processed food products and prepared dishes - unspecified - at catering - Unspecified	Sinzoo	Unspecified	HACCP and own checks	food sample	Domestic	Single	25 Gram	1	0	
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance	Sinzoo	Objective sampling	Official sampling	food sample	Domestic	Single	25 Gram	5	0	
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	8	0	
Other products of animal origin - gelatin and collagen - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococcal enterotoxins	Enterotoxin, unspecified
Sauce and dressings - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Vegetables - at catering - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	0	
Vegetables - at retail - Surveillance	Sinzoo	Unspecified	Official sampling	food sample	Domestic	Single	25 Gram	1	1	

5. FOODBORNE

Foodborne outbreaks are incidences of two or more human cases of the same disease or infection where the cases are linked or are probably linked to the same food source. Situation, in which the observed human cases exceed the expected number of cases and where a same food source is suspected, is also indicative of a foodborne outbreak.

Table Foodborne Outbreaks: summarised data

	Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
	Number of outbreaks	Human cases	Hospitalized	Deaths		
Salmonella - S. Typhimurium	1	5	unknown	unknown	0	1
Salmonella - S. Enteritidis	0	unknown	unknown	unknown	0	0
Salmonella - Other serovars	1	2	unknown	unknown	0	1
Campylobacter	3	8	unknown	unknown	0	3
Listeria - Listeria monocytogenes	0	unknown	unknown	unknown	0	0
Listeria - Other Listeria	0	unknown	unknown	unknown	0	0
Yersinia	0	unknown	unknown	unknown	0	0
Escherichia coli, pathogenic - Verotoxigenic E. coli (VTEC)	0	unknown	unknown	unknown	0	0
Bacillus - B. cereus	0	unknown	unknown	unknown	0	0
Bacillus - Other Bacillus	0	unknown	unknown	unknown	0	0
Staphylococcal enterotoxins	1	22	unknown	unknown	0	1
Clostridium - Cl. botulinum	0	unknown	unknown	unknown	0	0
Clostridium - Cl. perfringens	1	3	unknown	unknown	0	1

	Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
	Number of outbreaks	Human cases	Hospitalized	Deaths		
Clostridium - Other Clostridia	1	2	unknown	unknown	0	1
Other Bacterial agents - Brucella	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Shigella	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Other Bacterial agents	0	unknown	unknown	unknown	0	0
Parasites - Trichinella	0	unknown	unknown	unknown	0	0
Parasites - Giardia	0	unknown	unknown	unknown	0	0
Parasites - Cryptosporidium	0	unknown	unknown	unknown	0	0
Parasites - Anisakis	0	unknown	unknown	unknown	0	0
Parasites - Other Parasites	0	unknown	unknown	unknown	0	0
Viruses - Norovirus	0	unknown	unknown	unknown	0	0
Viruses - Hepatitis viruses	0	unknown	unknown	unknown	0	0
Viruses - Other Viruses	1	12	unknown	unknown	0	1
Other agents - Histamine	0	unknown	unknown	unknown	0	0
Other agents - Marine biotoxins	0	unknown	unknown	unknown	0	0
Other agents - Other Agents	0	unknown	unknown	unknown	0	0

Unknown agent

Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
Number of outbreaks	Human cases	Hospitalized	Deaths		
11	57	unknown	unknown	0	11