efsa European Food Safety Authority

ZOONOSES MONITORING

ITALY

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

TRENDS AND SOURCES OF ZOONOSES AND ZOONOTIC AGENTS IN HUMANS, FOODSTUFFS, ANIMALS AND FEEDINGSTUFFS

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

IN 2010

INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: Italy

Reporting Year:

Laboratory name	Description	Contribution
Ministry of Health, Viale Giorgio Ribotta n.5 00144 - Roma phone. 0039-06.5994.1	Department of veterinary public healt, feeding and food safety	collection of FBO and rabies data
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 Antimicorbial 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 labotatory surveillance
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.

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 ltaly during the year 2010 .

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.

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^{*} 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

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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.

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Table Susceptible animal populations

* Only if different than current reporting year

		Number of he	erds or flocks	Number of anir	slaughtered nals	Livestock ni anin	umbers (live nals)	Number of holdings		
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*	
	meat production animals	98476		1840042		2415598		95381		
	mixed herds	22054		149283		583768		21352		
Cattle (bovine animals)	dairy cows and heifers	36617		463542		2744895		35831		
	calves (under 1 year)	222		124560		88144		216		
	- in total	157369		2577427		5832405		152780		
	mixed flocks/holdings	1						1		
Ducks	meat production flocks	419						416		
Ducks	breeding flocks, unspecified - in total	51						50		
	- in total	471						467		
	breeding flocks, unspecified - in total	1111						984		
Calling ralling (fr. 1)	breeding flocks for egg production line - in total							264		
Gallus gallus (fowl)	broilers	33939						4624		
	laying hens	2817						3108		

Table Susceptible animal populations

		Number of he	erds or flocks	Number of anir	slaughtered nals	Livestock no	umbers (live nals)	Number o	f holdings
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*
Gallus gallus (fowl)	breeding flocks for meat production line - in total							720	
Callus gallus (IOWI)	- in total	37867						8716	
	breeding flocks, unspecified - in total	19						19	
Geese	mixed flocks/holdings	1						1	
Geese	meat production flocks	342						338	
	- in total	362						358	
	mixed herds	29007		12079		442923		27363	
Goats	meat production animals	25077		4122		277020		24465	
Guals	milk goats	5449		1596		260447		5158	
	- in total	59533		17797		980390		56986	
	breeding animals	17175		571407		4057609		16570	
Disc	fattening pigs	16371		1861545		4910948		15892	
Pigs	mixed herds	95143		23724		149871		91181	
	- in total	128689		2456676		9118428		123643	

Table Susceptible animal populations

		Number of he	erds or flocks	Number of anir		Livestock n	umbers (live nals)	Number o	f holdings
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*
	mixed herds	50069		109622		2761863		47800	
Chann	milk ewes	16509		77593		3715113		14428	
Sheep	meat production animals	35387		26864		975958		34572	
	- in total	101965		214079		7452934		96800	
Solipeds, domestic	horses - in total	103714		6516				98061	
	breeding flocks, unspecified - in total	193						59	
Turkovo	meat production flocks	3841						1003	
Turkeys	mixed flocks/holdings							1	
	- in total	4034						1063	
	farmed (Dairy cows and heifer)	2082		36478		335158		1903	
Water buffalos	farmed (Meat production animals)	421		856		7278		415	
vvalei duffalos	farmed (Mixed herds)	297		2486		29643		292	
	farmed - in total	2800		39820		372079		2610	

2. INFORMATION ON SPECIFIC ZOONOSES 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.

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2.1 SALMONELLOSIS

2.1.1 General evaluation of the national situation

A. General evaluation

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

In conclusion, monitoring of antimicrobial resistance in primary productions in Italy in 2010 demonstrated that multi-resistance is widespread in Salmonella isolates provided through the national control programmes (NCPs) in broilers and laying hens, along with relevant resistance rates for some classes of Critically Important Antimicrobials such as fluoroguinolones.

For the first time, few Salmonella isolates were found resistant to expanded-spectrum cephalosporins (ESC) in holdings of laying hens sampled according to the NCP, while ESC resistance in Salmonella from broilers was slightly lower (3.2%) than that recorded in the year 2009.

Multiresistance was found most frequently towards beta-lactams, sulphonamides, trimethoprim, minoglycosides (e. g. streptomycin), and tetracyclines, although multiresistances including also fluoroquinolones appear also a very common pattern. These figures are similar to those observed in the previous year. Multiresistance was a feature also present, at very high rates, in holdings of turkeys sampled during the NCP. As far as passive surveillance is concerned, monitoring of zoonotic Campylobacter (C. jejuni and C. coli) should be improved and strengthen, since at present relies only on very few isolates voluntarily sent to the NRL-AR bysome laboratories of the Istituti Zooprofilattici (IIZZSS) network (italian regional veterinary institutes) and collected from activities of passive laboratory monitoring/surveillance.

When interpreting data from passive surveillance, resistance rates may be influenced by sampling bias and small sample sizes, although it is well known that for food of animal origin and for some production chains are the only kind of information available, especially for some zoonotic pathogen (e. g. Campylobacter) or for some combination between zoonotic pathogen and primary production (e. g. Salmonella in bovine animals and in pigs).

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2.1.2 Salmonella in foodstuffs

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Brandenburg	S. Bredeney	S. Derby
Meat from broilers (Gallus gallus) - fresh - at catering - Control and eradication programmes - official sampling		Single		12	0						
Meat from broilers (Gallus gallus) - fresh - at processing plant - Control and eradication programmes - official sampling		Single		5	0						
Meat from broilers (Gallus gallus) - fresh - at retail - Clinical investigations		Single		1	0						
Meat from broilers (Gallus gallus) - fresh - at retail - Control and eradication programmes - official sampling - objective sampling		Single		2	0						
Meat from broilers (Gallus gallus) - fresh - at retail - Survey - national survey		Single		8	0						
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Single		28	0						
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling		Single		277	12		1				
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling (Batch)		Batch		9	1			1			

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Brandenburg	S. Bredeney	S. Derby
Meat from broilers (Gallus gallus) - fresh - unspecified - Surveillance - HACCP and own checks		Batch	25gr	63	0						
Meat from broilers (Gallus gallus) - meat preparation - at catering - Control and eradication programmes - official sampling		Single		1	0						
Meat from broilers (Gallus gallus) - meat preparation - at catering - Control and eradication programmes - official sampling (batch)		Batch	25gr	3	0						
Meat from broilers (Gallus gallus) - meat preparation - at catering - Surveillance - HACCP and own checks (batch)		Batch	25gr	3	0						
Meat from broilers (Gallus gallus) - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		86	1						
Meat from broilers (Gallus gallus) - meat products - at catering - Surveillance - HACCP and own checks		Single		2	0						
Meat from broilers (Gallus gallus) - meat products - unspecified - Control and eradication programmes - official sampling		Single		27	0						
Meat from broilers (Gallus gallus) - meat products - unspecified - Control and eradication programmes - official sampling (Batch)		Batch		8	0						
Meat from broilers (Gallus gallus) - meat products - unspecified - Surveillance - HACCP and own checks		Batch	25gr	3	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Brandenburg	S. Bredeney	S. Derby
Meat from broilers (Gallus gallus) - mechanically separated meat (MSM) - at processing plant - Control and eradication programmes - official sampling		Single		2	0						
Meat from broilers (Gallus gallus) - minced meat - at processing plant - Control and eradication programmes - official sampling		Batch		2	0						
Meat from broilers (Gallus gallus) - minced meat - at processing plant - Control and eradication programmes - official sampling (single)		Single		10	0						
Meat from broilers (Gallus gallus) - minced meat - unspecified - Surveillance - HACCP and own checks		Batch	10gr	1	0						
Meat from geese - offal - unspecified - Surveillance - HACCP and own checks		Batch	25gr	16	0						
Meat from guinea fowl - unspecified - Control and eradication programmes - official sampling		Single		1	0						
Meat from other poultry species - fresh - at catering - Surveillance - HACCP and own checks		Single		6	2						
Meat from other poultry species - fresh - unspecified - Control and eradication programmes - official sampling		Single		36	0						
Meat from other poultry species - meat preparation - unspecified - Surveillance - HACCP and own checks (Quails)		Batch	10gr	1	0						
Meat from other poultry species - unspecified - Control and eradication programmes - official sampling (Partridges)		Single		1	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Brandenburg	S. Bredeney	S. Derby
Meat from other poultry species - unspecified - Control and eradication programmes - official sampling (pigeons)		Single		2	0						
Meat from poultry, unspecified - at processing plant - Surveillance - HACCP and own checks		Single		17	13		2				7
Meat from poultry, unspecified - meat products - unspecified - Control and eradication programmes - official sampling		Single		10	0						
Meat from turkey - fresh - at catering - Control and eradication programmes - official sampling		Single		1	0						
Meat from turkey - fresh - at processing plant - Control and eradication programmes - official sampling		Single		1	0						
Meat from turkey - fresh - unspecified - Control and eradication programmes - official sampling		Single		108	32		6		3		
Meat from turkey - fresh - unspecified - Control and eradication programmes - official sampling (batch)		Batch	25gr	3	0						
Meat from turkey - meat preparation - at retail - Survey - national survey		Single		1	0						
Meat from turkey - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		89	15					1	
Meat from turkey - meat preparation - unspecified - Control and eradication programmes - official		Batch	25gr	1	1			1			

sampling (batch)

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Brandenburg	S. Bredeney	S. Derby
Meat from turkey - meat products - at catering - Surveillance - HACCP and own checks		Single		2	0						
Meat from turkey - meat products - unspecified - Control and eradication programmes - official sampling		Single		13	0						
Meat from turkey - meat products - unspecified - Control and eradication programmes - official sampling (batch)		Batch	25gr	1	0						
Meat from turkey - minced meat - unspecified - Control and eradication programmes - official sampling		Single		15	0						
Meat from turkey - minced meat - unspecified - Control and eradication programmes - official sampling (batch)		Batch	25gr	1	0						
Meat from turkey - offal - unspecified - unspecified - Control and eradication programmes - official sampling		Single		32	7				4	4	
Meat, mixed meat - meat preparation - at processing plant - Control and eradication programmes - official sampling (Gallus gallus and turkeys)		Single		1	0						
Meat, mixed meat - meat preparation - at retail - Control and eradication programmes - official sampling (Gallus gallus and turkeys)		Single		2	0						
Meat, mixed meat - meat products - unspecified - Control and eradication programmes - official sampling (Gallus gallus and turkeys)		Single		7	1						

	S. Hadar	S. Infantis	S. Manhattan	S. Montevideo	S. Newport	S. Saintpaul	S. enterica subsp. enterica
Meat from broilers (Gallus gallus) - fresh - at catering - Control and eradication programmes - official sampling							
Meat from broilers (Gallus gallus) - fresh - at processing plant - Control and eradication programmes - official sampling							
Meat from broilers (Gallus gallus) - fresh - at retail - Clinical investigations							
Meat from broilers (Gallus gallus) - fresh - at retail - Control and eradication programmes - official sampling - objective sampling							
Meat from broilers (Gallus gallus) - fresh - at retail - Survey - national survey							
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Surveillance - HACCP and own checks							
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling	9			2			
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling (Batch)							
Meat from broilers (Gallus gallus) - fresh - unspecified - Surveillance - HACCP and own checks							
Meat from broilers (Gallus gallus) - meat preparation - at catering - Control and eradication programmes - official sampling							

	S. Hadar	S. Infantis	S. Manhattan	S. Montevideo	S. Newport	S. Saintpaul	S. enterica subsp. enterica
Meat from broilers (Gallus gallus) - meat preparation - at catering - Control and eradication programmes - official sampling (batch)							
Meat from broilers (Gallus gallus) - meat preparation - at catering - Surveillance - HACCP and own checks (batch)							
Meat from broilers (Gallus gallus) - meat preparation - unspecified - Control and eradication programmes - official sampling					1		
Meat from broilers (Gallus gallus) - meat products - at catering - Surveillance - HACCP and own checks							
Meat from broilers (Gallus gallus) - meat products - unspecified - Control and eradication programmes - official sampling							
Meat from broilers (Gallus gallus) - meat products - unspecified - Control and eradication programmes - official sampling (Batch)							
Meat from broilers (Gallus gallus) - meat products - unspecified - Surveillance - HACCP and own checks							
Meat from broilers (Gallus gallus) - mechanically separated meat (MSM) - at processing plant - Control and eradication programmes - official sampling							
Meat from broilers (Gallus gallus) - minced meat - at processing plant - Control and eradication programmes - official sampling							

	S. Hadar	S. Infantis	S. Manhattan	S. Montevideo	S. Newport	S. Saintpaul	S. enterica subsp. enterica
Meat from broilers (Gallus gallus) - minced meat - at processing plant - Control and eradication programmes - official sampling (single)							
Meat from broilers (Gallus gallus) - minced meat - unspecified - Surveillance - HACCP and own checks							
Meat from geese - offal - unspecified - Surveillance - HACCP and own checks							
Meat from guinea fowl - unspecified - Control and eradication programmes - official sampling							
Meat from other poultry species - fresh - at catering - Surveillance - HACCP and own checks	1				1		
Meat from other poultry species - fresh - unspecified - Control and eradication programmes - official sampling							
Meat from other poultry species - meat preparation - unspecified - Surveillance - HACCP and own checks (Quails)							
Meat from other poultry species - unspecified - Control and eradication programmes - official sampling (Partridges)							
Meat from other poultry species - unspecified - Control and eradication programmes - official sampling (pigeons)							
Meat from poultry, unspecified - at processing plant - Surveillance - HACCP and own checks		1	1				2

	S. Hadar	S. Infantis	S. Manhattan	S. Montevideo	S. Newport	S. Saintpaul	S. enterica subsp. enterica
Meat from poultry, unspecified - meat products - unspecified - Control and eradication programmes - official sampling							
Meat from turkey - fresh - at catering - Control and eradication programmes - official sampling							
Meat from turkey - fresh - at processing plant - Control and eradication programmes - official sampling							
Meat from turkey - fresh - unspecified - Control and eradication programmes - official sampling					27		
Meat from turkey - fresh - unspecified - Control and eradication programmes - official sampling (batch)							
Meat from turkey - meat preparation - at retail - Survey - national survey							
Meat from turkey - meat preparation - unspecified - Control and eradication programmes - official sampling	3				6	5	
Meat from turkey - meat preparation - unspecified - Control and eradication programmes - official sampling (batch)							
Meat from turkey - meat products - at catering - Surveillance - HACCP and own checks							
Meat from turkey - meat products - unspecified - Control and eradication programmes - official sampling							

	S. Hadar	S. Infantis	S. Manhattan	S. Montevideo	S. Newport	S. Saintpaul	S. enterica subsp. enterica
Meat from turkey - meat products - unspecified - Control and eradication programmes - official sampling (batch)							
Meat from turkey - minced meat - unspecified - Control and eradication programmes - official sampling							
Meat from turkey - minced meat - unspecified - Control and eradication programmes - official sampling (batch)							
Meat from turkey - offal - unspecified - unspecified - Control and eradication programmes - official sampling					7		
Meat, mixed meat - meat preparation - at processing plant - Control and eradication programmes - official sampling (Gallus gallus and turkeys)							
Meat, mixed meat - meat preparation - at retail - Control and eradication programmes - official sampling (Gallus gallus and turkeys)							
Meat, mixed meat - meat products - unspecified - Control and eradication programmes - official sampling (Gallus gallus and turkeys)	1						

Comments:

- ¹⁾ The same sample result positive from more than one serotype
- ²⁾ The same sample result positive from more than one serotype

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Anatum	S. Bispebjerg	S. Infantis
Cheeses made from cows' milk - at processing plant - Clinical investigations		Single		159	0						
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling		Single		199	2						
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling		Single		100	0						
Cheeses made from cows' milk - at processing plant - Surveillance - HACCP and own checks		Single		74	0						
Cheeses made from cows' milk - at processing plant - Survey - national survey		Single		12	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling		Single		187	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (25gr)		Batch		24	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (BATCH)		Batch		32	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (NO WEIGHT)		Batch		12	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling - suspect sampling		Single		13	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Anatum	S. Bispebjerg	S. Infantis
Cheeses made from cows' milk - unspecified - Surveillance - HACCP and own checks		Single		9	0						
Cheeses made from cows' milk - unspecified - Surveillance - HACCP and own checks (BATCH)		Batch		97	0						
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling		Single		76	0						
Cheeses made from goats' milk - unspecified - Surveillance - HACCP and own checks		Batch		80	0						
Cheeses made from sheep's milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling		Single		10	0						
Cheeses made from sheep's milk - fresh - unspecified - Control and eradication programmes - official sampling (CURD)		Single		15	0						
Cheeses made from sheep's milk - unspecified - Control and eradication programmes - official sampling		Single		283	0						
Cheeses, made from unspecified milk or other animal milk - at catering - Control and eradication programmes - official sampling		Single		23	0						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling		Batch		86	1				1		
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling (single)		Single		1883	10			10			

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Anatum	S. Bispebjerg	S. Infantis
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks		Batch		32	0						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks (single)		Single		76	0						
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling		Single		272	1			1			
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and eradication programmes - official sampling (CURD)		Batch		37	0						
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Control and eradication programmes - official sampling (CURD)		Single		23	0						
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Surveillance - HACCP and own checks		Single		17	0						
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Survey - national survey		Batch		19	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Clinical investigations		Single		102	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Batch		29	1		1				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Anatum	S. Bispebjerg	S. Infantis
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (single)		Single		1299	3			2			
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (water buffalos)		Single		16	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP and own checks		Single		1020	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP and own checks (batch)		Batch		43	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Survey - national survey		Single		48	0						
Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling (BUTTER, CREAM)		Batch		9	0						
Dairy products (excluding cheeses) - butter - at catering - Control and eradication programmes - official sampling (BUTTER, CREAM)		Single		13	0						
Dairy products (excluding cheeses) - butter - at processing plant - Control and eradication programmes - official sampling (BUTTER, CREAM)		Batch		12	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Anatum	S. Bispebjerg	S. Infantis
Dairy products (excluding cheeses) - butter - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		50	0						
Dairy products (excluding cheeses) - butter - at retail - Control and eradication programmes - official sampling (SINGLE)		Single		21	1						1
Dairy products (excluding cheeses) - butter - unspecified - Control and eradication programmes - official sampling (BUTTER, CREAM)		Single		102	0						
Dairy products (excluding cheeses) - butter - unspecified - Surveillance - HACCP and own checks (BATCH)		Batch		12	0						
Dairy products (excluding cheeses) - butter - unspecified - Surveillance - HACCP and own checks (BUTTER, CREAM)		Single		31	0						
Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Survey - national survey		Batch		17	0						
Dairy products (excluding cheeses) - dairy products, not specified - unspecified - Control and eradication programmes - official sampling		Single		84	0						
Dairy products (excluding cheeses) - dairy products, not specified - unspecified - Surveillance - HACCP and own checks		Single		133	0						
Dairy products (excluding cheeses) - ice-cream - at catering - Control and eradication programmes - official sampling		Single		14	0						

Total units S. Salmonella Source of Sampling unit Sample S. Bispebjerg Units tested positive for S. Enteritidis Typhimurium S. Anatum S. Infantis spp., information weight unspecified Salmonella Dairy products (excluding cheeses) - ice-cream - at processing plant - Control and eradication Single 39 0 programmes - official sampling Dairy products (excluding cheeses) - ice-cream - at retail - Control and eradication programmes - official 44 0 Batch sampling Dairy products (excluding cheeses) - ice-cream - at retail - Control and eradication programmes - official Single 114 0 sampling (SINGLE) Dairy products (excluding cheeses) - ice-cream unspecified - Control and eradication programmes -880 0 Sinale official sampling Dairy products (excluding cheeses) - ice-cream unspecified - Surveillance - HACCP and own checks 61 0 Single Milk from other animal species or unspecified - at Single 47 0 farm - Clinical investigations Milk from other animal species or unspecified - at farm - animal sample - Control and eradication Single 528 1 programmes - official sampling Milk from other animal species or unspecified - at farm - animal sample - Surveillance - HACCP and 66 0 Single own checks Milk from other animal species or unspecified - at processing plant - Control and eradication 16 Batch 1 1

programmes - official sampling

Total units S. Salmonella S. Bispebjerg S. Infantis Sample Source of Sampling unit

	information		weight	Units tested	Salmonella	5. Enteritidis	ı ypnımurium	spp., unspecified	S. Anatum	, , ,	S. Infantis
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (single)		Single		2607	1				1		
Milk from other animal species or unspecified - at processing plant - Survey - national survey		Single		40	0						
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling		Single		270	1						
Milk from other animal species or unspecified - unspecified - Clinical investigations		Single		17	0						
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling		Single		435	0						
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling (batch)		Batch		102	1					1	
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks		Single		162	0						
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks (batch)		Batch		20	1					1	
Milk from other animal species or unspecified - unspecified - Survey - national survey		Single		31	0						
Milk, cows' - at catering - Control and eradication programmes		Single		16	0						

S. Total units Salmonella Source of Sampling unit Sample S. Bispebjerg Units tested positive for S. Enteritidis Typhimurium spp., S. Anatum S. Infantis information weight unspecified Salmonella Milk, cows' - at processing plant - Surveillance -42 0 Single HACCP and own checks Milk, cows' - unspecified - Control and eradication Single 542 2 1 programmes - official sampling Milk, cows' - unspecified - Control and eradication programmes - official sampling (batch) Batch 45 0 Milk, cows' - unspecified - Control and eradication programmes - official sampling (weight) 25gr 12 0 Batch Milk, cows' - unspecified - Surveillance - HACCP Batch 49 0 and own checks Milk, goats' - unspecified - Control and eradication 14 0 Single programmes - official sampling Other food (batch) 0 Batch 24

43

0

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Cheeses made from cows' milk - at processing plant - Clinical investigations				
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling	1		1	

Single

Other food (dairy products)

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling				
Cheeses made from cows' milk - at processing plant - Surveillance - HACCP and own checks				
Cheeses made from cows' milk - at processing plant - Survey - national survey				
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling				
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (25gr)				
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (BATCH)				
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling (NO WEIGHT)				
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling - suspect sampling				
Cheeses made from cows' milk - unspecified - Surveillance - HACCP and own checks				
Cheeses made from cows' milk - unspecified - Surveillance - HACCP and own checks (BATCH)				

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling				
Cheeses made from goats' milk - unspecified - Surveillance - HACCP and own checks				
Cheeses made from sheep's milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling				
Cheeses made from sheep's milk - fresh - unspecified - Control and eradication programmes - official sampling (CURD)				
Cheeses made from sheep's milk - unspecified - Control and eradication programmes - official sampling				
Cheeses, made from unspecified milk or other animal milk - at catering - Control and eradication programmes - official sampling				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling (single)				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks				

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks (single)				
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling				
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and eradication programmes - official sampling (CURD)				
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Control and eradication programmes - official sampling (CURD)				
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Surveillance - HACCP and own checks				
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Survey - national survey				
Cheeses, made from unspecified milk or other animal milk - unspecified - Clinical investigations				
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling				
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (single)				1

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (water buffalos)				
Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP and own checks				
Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP and own checks (batch)				
Cheeses, made from unspecified milk or other animal milk - unspecified - Survey - national survey				
Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling (BUTTER, CREAM)				
Dairy products (excluding cheeses) - butter - at catering - Control and eradication programmes - official sampling (BUTTER, CREAM)				
Dairy products (excluding cheeses) - butter - at processing plant - Control and eradication programmes - official sampling (BUTTER, CREAM)				
Dairy products (excluding cheeses) - butter - at processing plant - Control and eradication programmes - official sampling (SINGLE)				

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - butter - at retail - Control and eradication programmes - official sampling (SINGLE)				
Dairy products (excluding cheeses) - butter - unspecified - Control and eradication programmes - official sampling (BUTTER, CREAM)				
Dairy products (excluding cheeses) - butter - unspecified - Surveillance - HACCP and own checks (BATCH)				
Dairy products (excluding cheeses) - butter - unspecified - Surveillance - HACCP and own checks (BUTTER, CREAM)				
Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Survey - national survey				
Dairy products (excluding cheeses) - dairy products, not specified - unspecified - Control and eradication programmes - official sampling				
Dairy products (excluding cheeses) - dairy products, not specified - unspecified - Surveillance - HACCP and own checks				
Dairy products (excluding cheeses) - ice-cream - at catering - Control and eradication programmes - official sampling				
Dairy products (excluding cheeses) - ice-cream - at processing plant - Control and eradication programmes - official sampling				

Table Salmonella in milk and dairy products

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Dairy products (excluding cheeses) - ice-cream - at retail - Control and eradication programmes - official sampling				
Dairy products (excluding cheeses) - ice-cream - at retail - Control and eradication programmes - official sampling (SINGLE)				
Dairy products (excluding cheeses) - ice-cream - unspecified - Control and eradication programmes - official sampling				
Dairy products (excluding cheeses) - ice-cream - unspecified - Surveillance - HACCP and own checks				
Milk from other animal species or unspecified - at farm - Clinical investigations				
Milk from other animal species or unspecified - at farm - animal sample - Control and eradication programmes - official sampling				
Milk from other animal species or unspecified - at farm - animal sample - Surveillance - HACCP and own checks				
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling				
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (single)				
Milk from other animal species or unspecified - at processing plant - Survey - national survey				

Table Salmonella in milk and dairy products

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling		1		
Milk from other animal species or unspecified - unspecified - Clinical investigations				
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling				
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling (batch)				
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks				
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks (batch)				
Milk from other animal species or unspecified - unspecified - Survey - national survey				
Milk, cows' - at catering - Control and eradication programmes				
Milk, cows' - at processing plant - Surveillance - HACCP and own checks				
Milk, cows' - unspecified - Control and eradication programmes - official sampling			1	

Table Salmonella in milk and dairy products

	S. London	S. Ndolo	S. Stanleyville	S. enterica subsp. diarizonae
Milk, cows' - unspecified - Control and eradication programmes - official sampling (batch)				
Milk, cows' - unspecified - Control and eradication programmes - official sampling (weight)				
Milk, cows' - unspecified - Surveillance - HACCP and own checks				
Milk, goats' - unspecified - Control and eradication programmes - official sampling				
Other food (batch)				
Other food (dairy products)				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Bakery products - Control and eradication programmes - official sampling (OTHER)		Single		17	0						
Bakery products - cakes - Control and eradication programmes - official sampling		Batch		18	0						
Bakery products - cakes - Surveillance - HACCP and own checks		Single		22	0						
Bakery products - cakes - unspecified - Control and eradication programmes - official sampling		Single		69	0						
Bakery products - cakes - unspecified - Surveillance - HACCP and own checks		Single		43	0						
Bakery products - desserts - Control and eradication programmes - official sampling		Single		90	1	1					
Bakery products - desserts - Surveillance - HACCP and own checks		Single		119	0						
Bakery products - desserts - at catering - Control and eradication programmes - official sampling		Single		41	0						
Bakery products - desserts - at retail - Control and eradication programmes - official sampling - objective sampling		Single		12	0						
Bakery products - desserts - at retail - Surveillance - HACCP and own checks		Single		82	0						
Bakery products - pastry - unspecified - Control and eradication programmes - official sampling		Single		454	0						
Bakery products - pastry - unspecified - Surveillance - HACCP and own checks		Single		86	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Chocolate - Control and eradication programmes		Single		161	0						
Cocoa and cocoa preparations, coffee and tea - Control and eradication programmes		Single		109	0						
Cocoa and cocoa preparations, coffee and tea - at processing plant - Control and eradication programmes		Single		18	0						
Crustaceans - Control and eradication programmes - official sampling (FRESH)		Batch		29	0						
Crustaceans - Surveillance - HACCP and own checks (FRESH)		Single		111	0						
Egg products - Control and eradication programmes - official sampling		Batch		11	0						
Egg products - Control and eradication programmes - official sampling (LIQUID, DRIED)		Single		55	1				1		
Egg products - Control and eradication programmes - official sampling (single)		Single		75	0						
Egg products - Surveillance - HACCP and own checks		Single		1010	0						
Egg products - Surveillance - HACCP and own checks (LIQUID, DRIED)		Single		2236	0						
Egg products - at processing plant - Control and eradication programmes - official sampling		Single		18	0						
Egg products - at retail - Control and eradication programmes - official sampling		Single		31	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Eggs - Control and eradication programmes - official sampling (batch)		Batch		35	0						
Eggs - Control and eradication programmes - official sampling (gallus gallus)		Single		191	0						
Eggs - Control and eradication programmes - official sampling (laying hens)		Single		95	0						
Eggs - Control and eradication programmes - official sampling (single)		Single		194	0						
Eggs - Surveillance - HACCP and own checks		Single		143	0						
Eggs - Survey - national survey (egg shell)		Single		10	0						
Eggs - at catering - Control and eradication programmes - official sampling (gallus gallus)		Single		27	0						
Eggs - at farm - animal sample - Control and eradication programmes - official sampling (batch)		Batch		37	0						
Eggs - at farm - animal sample - Control and eradication programmes - official sampling (single)		Single		19	0						
Eggs - at processing plant - Control and eradication programmes - official sampling (gallus gallus)		Single		15	0						
Eggs - at processing plant - Control and eradication programmes - official sampling (single)		Single		90	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Eggs - at processing plant - Control and eradication programmes - official sampling - objective sampling		Batch		12	0						
Eggs - at retail - Control and eradication programmes - official sampling (single)		Single		78	0						
Eggs - at retail - Control and eradication programmes - official sampling - objective sampling		Single		34	0						
Eggs - at retail - Survey - national survey		Batch		17	0						
Eggs - table eggs - Surveillance - HACCP and own checks		Single		58	0						
Fats and oils (excluding butter) - fats - Control and eradication programmes - official sampling		Single		15	0						
Fish - Surveillance - HACCP and own checks (FISH PREPARATIONS)		Batch		213	0						
Fish - Surveillance - HACCP and own checks (SINGLE)		Single		140	0						
Fish - at catering - Control and eradication programmes - official sampling (FISH PREPARATIONS)		Single		22	0						
Fish - at processing plant - Control and eradication programmes - official sampling (FISH PREPARATIONS)		Batch		21	0						
Fish - unspecified - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)		Batch		13	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Fishery products, unspecified - Clinical investigations (FRESH)		Single		45	0						
Fishery products, unspecified - Control and eradication programmes - official sampling		Single		182	0						
Fishery products, unspecified - Control and eradication programmes - official sampling (FRESH MOLLUSKS)		Single		152	1			1			
Fishery products, unspecified - Control and eradication programmes - official sampling (FRESH)		Batch		23	0						
Fishery products, unspecified - Control and eradication programmes - official sampling (MOLLUSKS-FRESH)		Batch		397	10		2	3	3		
Fishery products, unspecified - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS)		Batch		16	0						
Fishery products, unspecified - Control and eradication programmes - official sampling (PREPARED FISHERY- SINGLE)		Single		80	0						
Fishery products, unspecified - Control and eradication programmes - official sampling (SINGLE)		Single		240	0						
Fishery products, unspecified - Surveillance - HACCP and own checks		Single		527	0						
Fishery products, unspecified - Surveillance - HACCP and own checks (FRESH FARMED FISH)		Batch		18	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Fishery products, unspecified - Surveillance - HACCP and own checks (FRESH FISH)		Batch	25gr	64	0						
Fishery products, unspecified - Surveillance - HACCP and own checks (PREPARED FISHERY PRODUCTS)		Single		339	0						
Fishery products, unspecified - Surveillance - HACCP and own checks (mechanically separated)		Single		80	0						
Fishery products, unspecified - Survey - national survey (FRESH FISH)		Single		69	11		1		5		
Fishery products, unspecified - at catering - Control and eradication programmes - official sampling (MOLLUSKS-FRESH)		Single		48	0						
Fishery products, unspecified - at catering - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS)		Single		22	0						
Fishery products, unspecified - at farm - animal sample - Control and eradication programmes - official sampling (FRESH MOLLUSKS)		Single		14	0						
Fishery products, unspecified - at farm - animal sample - Control and eradication programmes - official sampling (MOLLUSKS-FRESH)		Single		17	1			1			
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling		Single		62	2				2		
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH MOLLUSK-BATCH)		Batch		11	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH MOLLUSKS)		Single		158	1			1			
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH)		Single		41	0						
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS)		Batch		15	0						
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		91	0						
Fishery products, unspecified - at processing plant - Surveillance - HACCP and own checks (FRESH)		Single		26	0						
Fishery products, unspecified - at processing plant - Surveillance - HACCP and own checks (PREPARED FISHERY PRODUCTS)		Single		13	0						
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling		Single		37	0						
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSK)		Batch		17	0						
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSK-SINGLE)		Single		41	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSKS)		Single		152	1			1			
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH)		Single		104	1			1			
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (FRESH)		Batch	25gr	24	0						
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (PREPARED FISHERY PRODUCTS)		Single		49	0						
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (SINGLE)		Single		180	0						
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (batch)		Batch	25gr	33	0						
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (FRESH MOLLUSKS)		Single		3075	28	3	5	12	5		3
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - Control and eradication programmes - official sampling		Single		172	0						
Fruits - Control and eradication programmes - official sampling		Batch		10	0						
Fruits - Control and eradication programmes - official sampling (SINGLE)		Single		11	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Fruits - at processing plant - Control and eradication programmes - official sampling		Batch		121	0						
Fruits - products - at processing plant - Control and eradication programmes - official sampling		Batch		32	0						
Fruits - products - unspecified - Control and eradication programmes - official sampling		Single		45	0						
Fruits - unspecified - Control and eradication programmes - official sampling		Single		18	0						
Infant formula - at retail - Control and eradication programmes - official sampling		Single		10	0						
Infant formula - unspecified - Control and eradication programmes - official sampling		Single		259	0						
Meat from other animal species or not specified - fresh - Clinical investigations		Single		15	0						
Meat from other animal species or not specified - fresh - Control and eradication programmes - official sampling		Batch		22	0						
Meat from other animal species or not specified - fresh - Surveillance - HACCP and own checks		Single		2127	0						
Meat from other animal species or not specified - fresh - Survey - national survey		Batch		14	0						
Meat from other animal species or not specified - fresh - at catering - Control and eradication programmes - official sampling		Single		7	1			1			

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - fresh - at catering - Surveillance - HACCP and own checks		Single		18	1						
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling		Batch		76	1				1		
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling (BATCH)		Batch		45	1		1		1		
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		86	4				4		
Meat from other animal species or not specified - fresh - at processing plant - Surveillance - HACCP and own checks		Single		278	3		2				1
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling		Single		93	0						
Meat from other animal species or not specified - fresh - at retail - Surveillance - HACCP and own checks		Single		154	0						
Meat from other animal species or not specified - fresh - at slaughterhouse - animal sample		Single		120	4			3	1		
Meat from other animal species or not specified - fresh - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Single		28	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - meat preparation - Control and eradication programmes - official sampling		Batch		18	0						
Meat from other animal species or not specified - meat preparation - Surveillance - HACCP and own checks		Single		548	2			1	1		
Meat from other animal species or not specified - meat preparation - Surveillance - HACCP and own checks (batch)		Batch		15	3		2				1
Meat from other animal species or not specified - meat preparation - Survey - national survey		Single		23	5		2		2		1
Meat from other animal species or not specified - meat preparation - at catering - Control and eradication programmes - official sampling		Single		28	3		2		1		
Meat from other animal species or not specified - meat preparation - at catering - Surveillance - HACCP and own checks		Single		15	0						
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey (SINGLE)		Batch		33	0						
Meat from other animal species or not specified - meat preparation - at processing plant - Control and eradication programmes - official sampling		Batch		12	0						
Meat from other animal species or not specified - meat preparation - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		460	11				11		

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - meat preparation - at processing plant - Surveillance - HACCP and own checks		Single		12	0						
Meat from other animal species or not specified - meat preparation - at processing plant - Survey - national survey (SINGLE)		Batch		57	0						
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling		Batch		41	1				1		
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling (SINGLE)		Single		106	2				2		
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling - objective sampling		Single		71	2		1		1		
Meat from other animal species or not specified - meat preparation - at retail - Surveillance - HACCP and own checks		Single		185	0						
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		1642	47		7	16			14
Meat from other animal species or not specified - meat products - Clinical investigations		Single		15	0						
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling		Single		1180	53		6	9	21		14

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling (batch)		Batch		138	0						
Meat from other animal species or not specified - meat products - Surveillance - HACCP and own checks		Single		1917	4			4			
Meat from other animal species or not specified - meat products - Survey - national survey		Single		11	5			3	2		
Meat from other animal species or not specified - meat products - at catering - Control and eradication programmes - official sampling		Batch		13	0						
Meat from other animal species or not specified - meat products - at catering - Control and eradication programmes - official sampling (SINGLE)		Single		89	4		1		3		
Meat from other animal species or not specified - meat products - at catering - Survey - national survey		Batch		11	0						
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling		Single		559	11			11			
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (BATCH)		Batch		31	1			1			
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (Batch)		Batch		64	2				2		

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		346	8		1	3	3		
Meat from other animal species or not specified - meat products - at processing plant - Surveillance - HACCP and own checks		Single		23	0						
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling		Single		63	1			1			
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling (BATCH)		Batch		99	7		2	1	1		1
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling (SINGLE)		Single		404	15			7	8		
Meat from other animal species or not specified - meat products - at retail - Surveillance - HACCP and own checks		Single		43	0						
Meat from other animal species or not specified - meat products - at retail - Survey - national survey		Batch		11	0						
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks		Single		119	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - mechanically separated meat (MSM) - Surveillance - HACCP and own checks		Single		23	0						
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance - HACCP and own checks		Single		17	0						
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling		Single		206	5		1		5		
Meat from other animal species or not specified - minced meat - Surveillance - HACCP and own checks		Single		415	0						
Meat from other animal species or not specified - minced meat - at catering - Surveillance - HACCP and own checks		Single		27	0						
Meat from other animal species or not specified - minced meat - at processing plant - Control and eradication programmes - official sampling		Single		35	0						
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance - HACCP and own checks		Single		24	0						
Meat from other animal species or not specified - minced meat - at retail - Control and eradication programmes - official sampling		Batch		55	0						
Meat from other animal species or not specified - minced meat - at retail - Control and eradication programmes - official sampling (single)		Single		204	4				4		

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from other animal species or not specified - minced meat - at retail - Surveillance - HACCP and own checks		Single		426	0						
Meat from other animal species or not specified - offal - Clinical investigations		Single		14	0						
Meat from other animal species or not specified - offal - Control and eradication programmes		Batch		10	0						
Meat from other animal species or not specified - offal - Control and eradication programmes (single)		Single		375	6		1		3		2
Meat from other animal species or not specified - offal - Surveillance - HACCP and own checks		Single		104	0						
Meat from other animal species or not specified - offal - at processing plant - Survey - national survey		Batch		10	0						
Meat from other animal species or not specified - offal - at retail - Control and eradication programmes		Single		89	0						
Meat from other animal species or not specified - offal - at slaughterhouse - animal sample - Control and eradication programmes		Single		152	0						
Meat from other animal species or not specified - offal - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Single		20	0						
Meat from rabbit - fresh - Control and eradication programmes - official sampling		Single		16	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Meat from sheep - carcass - at slaughterhouse - animal sample - carcass swabs - Control and eradication programmes - official sampling		Single		9	1		1				
Molluscan shellfish - Control and eradication programmes - official sampling		Batch		58	0						
Molluscan shellfish - Surveillance - HACCP and own checks		Batch	25gr	37	0						
Other food (Mixed feeds)		Single		178	0						
Other food (Mixed feeds-batch)		Batch		153	0						
Other food - Control and eradication programmes - official sampling (BISQUITS)		Single		36	0						
Other food - Control and eradication programmes - official sampling (FOODSTUFF)		Single		583	0						
Other food - Control and eradication programmes - official sampling (MOLLUSCKS PRODUCTS)		Batch		17	0						
Other food - Control and eradication programmes - official sampling (mixed food preparations)		Single		104	1				1		
Other food - Surveillance - HACCP and own checks (FOODSTUFF)		Single		142	0						
Other food - at catering - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)		Batch		17	0						
Other food - at catering - Control and eradication programmes - official sampling (SINGLE)		Single		133	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Other food - at catering - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)		Single		469	0						
Other food - at processing plant - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)		Batch		21	1			1			
Other food - at processing plant - Control and eradication programmes - official sampling (SINGLE)		Single		132	1			1			
Other food - at processing plant - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)		Single		81	0						
Other food - at retail - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)		Batch		25	0						
Other food - at retail - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS SINGLE)		Single		234	4			4			
Other food - at retail - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)		Single		345	0						
Other food - unspecified - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS SINGLE)		Batch		58	0						
Other food - unspecified - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS-SINGLE)		Single		712	10			1	4	5	

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Other food - unspecified - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)		Single		986	0						
Other food of non-animal origin - unspecified - Control and eradication programmes - official sampling (POMACE)		Single		10	0						
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling		Batch		39	0						
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling (SINGLE)		Single		598	1						
Other processed food products and prepared dishes - pasta - Surveillance - HACCP and own checks (SINGLE)		Single		693	0						
Other processed food products and prepared dishes - pasta - at catering - Control and eradication programmes - official sampling		Single		13	0						
Other processed food products and prepared dishes - pasta - at processing plant - Control and eradication programmes - official sampling		Single		51	0						
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling		Batch		32	0						
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling (SINGLE)		Single		24	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Other products of animal origin - gelatin and collagen - at processing plant - Control and eradication programmes - official sampling		Single		14	0						
Sauce and dressings - Control and eradication programmes - official sampling		Single		36	0						
Sauce and dressings - Surveillance - HACCP and own checks		Single		14	0						
Sauce and dressings - at processing plant - Control and eradication programmes - official sampling		Single		15	0						
Sauce and dressings - at retail - Control and eradication programmes - official sampling		Single		14	0						
Spices and herbs - Surveillance - HACCP and own checks		Single		22	0						
Sweets - unspecified - Control and eradication programmes - official sampling		Single		201	0						
Vegetables - Control and eradication programmes - official sampling (single)		Single		534	1				1		
Vegetables - Surveillance - HACCP and own checks		Single		126	0						
Vegetables - Survey - national survey		Single		36	0						
Vegetables - at catering - Control and eradication programmes - official sampling		Single		10	0						
Vegetables - at catering - Surveillance - HACCP and own checks		Single		42	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars	S. Blockley	S. Derby
Vegetables - at processing plant - Control and eradication programmes - official sampling		Batch		91	0						
Vegetables - at retail - Control and eradication programmes - official sampling		Single		47	0						
Vegetables - at retail - Surveillance - HACCP and own checks		Single		45	0						
Vegetables - products - Control and eradication programmes - official sampling		Single		94	2				2		
Vegetables - products - Surveillance - HACCP and own checks		Single		19	0						

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Bakery products - Control and eradication programmes - official sampling (OTHER)				
Bakery products - cakes - Control and eradication programmes - official sampling				
Bakery products - cakes - Surveillance - HACCP and own checks				
Bakery products - cakes - unspecified - Control and eradication programmes - official sampling				
Bakery products - cakes - unspecified - Surveillance - HACCP and own checks				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Bakery products - desserts - Control and eradication programmes - official sampling				
Bakery products - desserts - Surveillance - HACCP and own checks				
Bakery products - desserts - at catering - Control and eradication programmes - official sampling				
Bakery products - desserts - at retail - Control and eradication programmes - official sampling - objective sampling				
Bakery products - desserts - at retail - Surveillance - HACCP and own checks				
Bakery products - pastry - unspecified - Control and eradication programmes - official sampling				
Bakery products - pastry - unspecified - Surveillance - HACCP and own checks				
Chocolate - Control and eradication programmes				
Cocoa and cocoa preparations, coffee and tea - Control and eradication programmes				
Cocoa and cocoa preparations, coffee and tea - at processing plant - Control and eradication programmes				
Crustaceans - Control and eradication programmes - official sampling (FRESH)				
Crustaceans - Surveillance - HACCP and own checks (FRESH)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Egg products - Control and eradication programmes - official sampling				
Egg products - Control and eradication programmes - official sampling (LIQUID, DRIED)				
Egg products - Control and eradication programmes - official sampling (single)				
Egg products - Surveillance - HACCP and own checks				
Egg products - Surveillance - HACCP and own checks (LIQUID, DRIED)				
Egg products - at processing plant - Control and eradication programmes - official sampling				
Egg products - at retail - Control and eradication programmes - official sampling				
Eggs - Control and eradication programmes - official sampling (batch)				
Eggs - Control and eradication programmes - official sampling (gallus gallus)				
Eggs - Control and eradication programmes - official sampling (laying hens)				
Eggs - Control and eradication programmes - official sampling (single)				
Eggs - Surveillance - HACCP and own checks				
Eggs - Survey - national survey (egg shell)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Eggs - at catering - Control and eradication programmes - official sampling (gallus gallus)				
Eggs - at farm - animal sample - Control and eradication programmes - official sampling (batch)				
Eggs - at farm - animal sample - Control and eradication programmes - official sampling (single)				
Eggs - at processing plant - Control and eradication programmes - official sampling (gallus gallus)				
Eggs - at processing plant - Control and eradication programmes - official sampling (single)				
Eggs - at processing plant - Control and eradication programmes - official sampling - objective sampling				
Eggs - at retail - Control and eradication programmes - official sampling (single)				
Eggs - at retail - Control and eradication programmes - official sampling - objective sampling				
Eggs - at retail - Survey - national survey				
Eggs - table eggs - Surveillance - HACCP and own checks				
Fats and oils (excluding butter) - fats - Control and eradication programmes - official sampling				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Fish - Surveillance - HACCP and own checks (FISH PREPARATIONS)				
Fish - Surveillance - HACCP and own checks (SINGLE)				
Fish - at catering - Control and eradication programmes - official sampling (FISH PREPARATIONS)				
Fish - at processing plant - Control and eradication programmes - official sampling (FISH PREPARATIONS)				
Fish - unspecified - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)				
Fishery products, unspecified - Clinical investigations (FRESH)				
Fishery products, unspecified - Control and eradication programmes - official sampling				
Fishery products, unspecified - Control and eradication programmes - official sampling (FRESH MOLLUSKS)				
Fishery products, unspecified - Control and eradication programmes - official sampling (FRESH)				
Fishery products, unspecified - Control and eradication programmes - official sampling (MOLLUSKS-FRESH)	2			

S. enterica S. Hadar S. Ohio S. Infantis subsp. salamae Fishery products, unspecified - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS) Fishery products, unspecified - Control and eradication programmes - official sampling (PREPARED FISHERY- SINGLE) Fishery products, unspecified - Control and eradication programmes - official sampling (SINGLE) Fishery products, unspecified - Surveillance -HACCP and own checks Fishery products, unspecified - Surveillance -HACCP and own checks (FRESH FARMED FISH) Fishery products, unspecified - Surveillance -HACCP and own checks (FRESH FISH) Fishery products, unspecified - Surveillance -HACCP and own checks (PREPARED FISHERY PRODUCTS) Fishery products, unspecified - Surveillance -HACCP and own checks (mechanically separated) Fishery products, unspecified - Survey - national 1 4 survey (FRESH FISH) Fishery products, unspecified - at catering - Control and eradication programmes - official sampling

(MOLLUSKS-FRESH)

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Fishery products, unspecified - at catering - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS)				
Fishery products, unspecified - at farm - animal sample - Control and eradication programmes - official sampling (FRESH MOLLUSKS)				
Fishery products, unspecified - at farm - animal sample - Control and eradication programmes - official sampling (MOLLUSKS-FRESH)				
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling				1
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH MOLLUSK-BATCH)				
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH MOLLUSKS)				
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (FRESH)				
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (PREPARED FISHERY PRODUCTS)				
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (SINGLE)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Fishery products, unspecified - at processing plant - Surveillance - HACCP and own checks (FRESH)				
Fishery products, unspecified - at processing plant - Surveillance - HACCP and own checks (PREPARED FISHERY PRODUCTS)				
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling				
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSK)				
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSK-SINGLE)				
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH MOLLUSKS)				
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (FRESH)				
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (FRESH)				
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (PREPARED FISHERY PRODUCTS)				
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (SINGLE)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Fishery products, unspecified - at retail - Surveillance - HACCP and own checks (batch)				
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (FRESH MOLLUSKS)				
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - Control and eradication programmes - official sampling				
Fruits - Control and eradication programmes - official sampling				
Fruits - Control and eradication programmes - official sampling (SINGLE)				
Fruits - at processing plant - Control and eradication programmes - official sampling				
Fruits - products - at processing plant - Control and eradication programmes - official sampling				
Fruits - products - unspecified - Control and eradication programmes - official sampling				
Fruits - unspecified - Control and eradication programmes - official sampling				
Infant formula - at retail - Control and eradication programmes - official sampling				
Infant formula - unspecified - Control and eradication programmes - official sampling				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - fresh - Clinical investigations				
Meat from other animal species or not specified - fresh - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - fresh - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - fresh - Survey - national survey				
Meat from other animal species or not specified - fresh - at catering - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - fresh - at catering - Surveillance - HACCP and own checks		1		
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling (BATCH)				
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling (SINGLE)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - fresh - at processing plant - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - fresh - at retail - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - fresh - at slaughterhouse - animal sample				
Meat from other animal species or not specified - fresh - at slaughterhouse - animal sample - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - meat preparation - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - meat preparation - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - meat preparation - Surveillance - HACCP and own checks (batch)				
Meat from other animal species or not specified - meat preparation - Survey - national survey				

S. enterica S. Hadar S. Ohio S. Infantis subsp. salamae Meat from other animal species or not specified meat preparation - at catering - Control and eradication programmes - official sampling Meat from other animal species or not specified meat preparation - at catering - Surveillance -HACCP and own checks Meat from other animal species or not specified meat preparation - at catering - Survey - national survey (SINGLE Meat from other animal species or not specified meat preparation - at processing plant - Control and eradication programmes - official sampling Meat from other animal species or not specified meat preparation - at processing plant - Control and eradication programmes - official sampling (SINGLE Meat from other animal species or not specified meat preparation - at processing plant - Surveillance - HACCP and own checks Meat from other animal species or not specified meat preparation - at processing plant - Survey national survey (SINGLE Meat from other animal species or not specified meat preparation - at retail - Control and eradication programmes - official sampling

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling (SINGLE)				
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling - objective sampling				
Meat from other animal species or not specified - meat preparation - at retail - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling	1		9	
Meat from other animal species or not specified - meat products - Clinical investigations				
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling	3			
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling (batch)				
Meat from other animal species or not specified - meat products - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - meat products - Survey - national survey				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - meat products - at catering - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - meat products - at catering - Control and eradication programmes - official sampling (SINGLE)				
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 processing plant - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (BATCH)				
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (Batch)				
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling (SINGLE)	1			
Meat from other animal species or not specified - meat products - at processing plant - Surveillance - HACCP and own checks				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling (BATCH)		1	1	
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling (SINGLE)		1		
Meat from other animal species or not specified - meat products - at retail - Surveillance - HACCP and own checks				
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 - unspecified - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - mechanically separated meat (MSM) - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - mechanically separated meat (MSM) - at retail - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - minced meat - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - minced meat - at catering - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - minced meat - at processing plant - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - minced meat - at processing plant - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - minced meat - at retail - Control and eradication programmes - official sampling				
Meat from other animal species or not specified - minced meat - at retail - Control and eradication programmes - official sampling (single)				
Meat from other animal species or not specified - minced meat - at retail - Surveillance - HACCP and own checks				
Meat from other animal species or not specified - offal - Clinical investigations				
Meat from other animal species or not specified - offal - Control and eradication programmes				
Meat from other animal species or not specified - offal - Control and eradication programmes (single)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Meat from other animal species or not specified - offal - Surveillance - HACCP and own checks				
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 retail - Control and eradication programmes				
Meat from other animal species or not specified - offal - at slaughterhouse - animal sample - Control and eradication programmes				
Meat from other animal species or not specified - offal - at slaughterhouse - animal sample - Surveillance - HACCP and own checks				
Meat from rabbit - fresh - Control and eradication programmes - official sampling				
Meat from sheep - carcass - at slaughterhouse - animal sample - carcass swabs - Control and eradication programmes - official sampling				
Molluscan shellfish - Control and eradication programmes - official sampling				
Molluscan shellfish - Surveillance - HACCP and own checks				
Other food (Mixed feeds)				
Other food (Mixed feeds-batch)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Other food - Control and eradication programmes - official sampling (BISQUITS)				
Other food - Control and eradication programmes - official sampling (FOODSTUFF)				
Other food - Control and eradication programmes - official sampling (MOLLUSCKS PRODUCTS)				
Other food - Control and eradication programmes - official sampling (mixed food preparations)				
Other food - Surveillance - HACCP and own checks (FOODSTUFF)				
Other food - at catering - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)				
Other food - at catering - Control and eradication programmes - official sampling (SINGLE)				
Other food - at catering - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)				
Other food - at processing plant - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)				
Other food - at processing plant - Control and eradication programmes - official sampling (SINGLE)				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Other food - at processing plant - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)				
Other food - at retail - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATION)				
Other food - at retail - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS SINGLE)				
Other food - at retail - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)				
Other food - unspecified - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS SINGLE)				
Other food - unspecified - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS-SINGLE)				
Other food - unspecified - Surveillance - HACCP and own checks (GASTRONOMIC PREPARATION)				
Other food of non-animal origin - unspecified - Control and eradication programmes - official sampling (POMACE)				
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling (SINGLE)		1		
Other processed food products and prepared dishes - pasta - Surveillance - HACCP and own checks (SINGLE)				
Other processed food products and prepared dishes - pasta - at catering - Control and eradication programmes - official sampling				
Other processed food products and prepared dishes - pasta - at processing plant - Control and eradication programmes - official sampling				
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling				
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling (SINGLE)				
Other products of animal origin - gelatin and collagen - at processing plant - Control and eradication programmes - official sampling				
Sauce and dressings - Control and eradication programmes - official sampling				
Sauce and dressings - Surveillance - HACCP and own checks				
Sauce and dressings - at processing plant - Control and eradication programmes - official sampling				

	S. Hadar	S. Infantis	S. Ohio	S. enterica subsp. salamae
Sauce and dressings - at retail - Control and eradication programmes - official sampling				
Spices and herbs - Surveillance - HACCP and own checks				
Sweets - unspecified - Control and eradication programmes - official sampling				
Vegetables - Control and eradication programmes - official sampling (single)				
Vegetables - Surveillance - HACCP and own checks				
Vegetables - Survey - national survey				
Vegetables - at catering - Control and eradication programmes - official sampling				
Vegetables - at catering - Surveillance - HACCP and own checks				
Vegetables - at processing plant - Control and eradication programmes - official sampling				
Vegetables - at retail - Control and eradication programmes - official sampling				
Vegetables - at retail - Surveillance - HACCP and own checks				
Vegetables - products - Control and eradication programmes - official sampling				
Vegetables - products - Surveillance - HACCP and own checks				

Comments:

- ¹⁾ one sample results positive from more than one serotypes
- ²⁾ one sample results positive from more than one serotypes
- ³⁾ some samples result positive to more than one serotypes
- ⁴⁾ One sample results positive from more than one serotypes

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. 4,12:i:-	S. Anatum	S. Blockley
Meat from bovine animals - fresh - at catering - Control and eradication programmes - official sampling		Single		14	0						
Meat from bovine animals - fresh - at retail - Survey - national survey		Single		15	0						
Meat from bovine animals - fresh - at slaughterhouse - Clinical investigations		Single		13	0						
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Survey - national survey		Single		31	1						
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling		Single		170	0						
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (batch)		Batch	25gr	31	0						
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (no weight)		Batch		13	0						
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks		Batch	25gr	73	0						
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks (single)		Single		21	0						
Meat from bovine animals - meat preparation - at slaughterhouse - animal sample - Survey - national survey		Single		2	1						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. 4,12:i:-	S. Anatum	S. Blockley
Meat from bovine animals - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		80	0						
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling		Single		7	0						
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling (batch)		Batch		7	0						
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling		Single		187	1						
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling (batch)		Batch		12	0						
Meat from bovine animals - minced meat - at retail - Clinical investigations		Single		10	6		5	1			
Meat from bovine animals - offal - Control and eradication programmes - official sampling		Single		16	0						
Meat from horse - fresh - at catering - Control and eradication programmes - official sampling		Single		10	1				1		
Meat from horse - meat products - unspecified - Control and eradication programmes - official sampling		Single		26	0						
Meat from other animal species or not specified - fresh - unspecified - Surveillance - HACCP and own checks (Wildlife)		Batch	25gr	55	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. 4,12:i:-	S. Anatum	S. Blockley
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks (Wildlife)		Batch	25gr	20	0						
Meat from pig - fresh - at catering - Control and eradication programmes - official sampling		Single		10	0						
Meat from pig - fresh - at processing plant - Control and eradication programmes - official sampling		Single		12	0						
Meat from pig - fresh - at retail - Survey - national survey		Single		11	0						
Meat from pig - fresh - unspecified - Clinical investigations		Single		10	2		1			1	
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling		Single		345	14		10				
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks		Batch	25gr	170	0						
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks (single)		Single		15	0						
Meat from pig - fresh - unspecified - Survey - national survey		Single		10	1						
Meat from pig - meat preparation - at retail - Control and eradication programmes - official sampling		Single	10gr	1	1						
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		252	15						

Total units S. Salmonella Source of Sampling unit Sample Units tested positive for S. Enteritidis Typhimurium S. Blockley spp., S. 4,12:i:-S. Anatum information weight unspecified Salmonella Meat from pig - meat preparation - unspecified -Control and eradication programmes - official 18 0 Batch sampling (batch) Meat from pig - meat preparation - unspecified -Control and eradication programmes - official 13 0 Batch sampling (weight) Meat from pig - meat preparation - unspecified -25gr 13 0 Batch Surveillance - HACCP and own checks Meat from pig - meat products - at catering - Control Single 21 1 and eradication programmes Meat from pig - meat products - at processing plant -Single 10 0 Control and eradication programmes Meat from pig - meat products - at retail - Clinical 16 0 Single investigations Meat from pig - meat products - at retail - Control Single 12 1 1 and eradication programmes Meat from pig - meat products - at retail - Control 3 3 Single 10gr 1 and eradication programmes (weight) Meat from pig - meat products - at retail - Control and eradication programmes - official sampling -Single 251 10 5 5 suspect sampling Meat from pig - meat products - at retail -Single 61 1 1

Single

0

36

Surveillance - HACCP and own checks

national survey

Meat from pig - meat products - at retail - Survey -

Total units S. Salmonella Source of Sampling unit Sample Units tested positive for S. Enteritidis Typhimurium S. 4,12:i:-S. Blockley spp., S. Anatum information weight unspecified Salmonella Meat from pig - meat products - unspecified -Single 12 1 Clinical investigations Meat from pig - meat products - unspecified -47 0 Batch Control and eradication programmes 2) Meat from pig - meat products - unspecified -2452 75 16 Single Control and eradication programmes (Single) Meat from pig - meat products - unspecified -25gr 384 0 Batch Surveillance - HACCP and own checks Meat from pig - minced meat - Control and 2 Single 101 eradication programmes - official sampling Meat from pig - minced meat - Surveillance -Batch 25gr 29 0 HACCP and own checks Meat from pig - offal - Clinical investigations Single 10 0 Meat from sheep - fresh - unspecified - Control and 12 0 Single eradication programmes - official sampling Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling (Batch) Batch 14 0 Meat from sheep - meat preparation - unspecified -Control and eradication programmes - official 7 Single 1 1 sampling Meat from sheep - meat products - unspecified -Control and eradication programmes - official 13 0 Single

sampling

	S. Bovismorbific ans	S. Brandenburg	S. Bredeney	S. Derby	S. Goldcoast	S. II 1,4,12:-:-	S. Infantis	S. Kapemba	S. London	S. Manhattan	S. Newport
Meat from bovine animals - fresh - at catering - Control and eradication programmes - official sampling											
Meat from bovine animals - fresh - at retail - Survey - national survey											
Meat from bovine animals - fresh - at slaughterhouse - Clinical investigations											
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Survey - national survey			1								
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling											
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (batch)											
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (no weight)											
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks											
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks (single)											
Meat from bovine animals - meat preparation - at slaughterhouse - animal sample - Survey - national survey											

	S. Bovismorbific ans	S. Brandenburg	S. Bredeney	S. Derby	S. Goldcoast	S. II 1,4,12:-:-	S. Infantis	S. Kapemba	S. London	S. Manhattan	S. Newport
Meat from bovine animals - meat preparation - unspecified - Control and eradication programmes - official sampling											
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling											
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling (batch)											
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling									1		
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling (batch)											
Meat from bovine animals - minced meat - at retail - Clinical investigations											
Meat from bovine animals - offal - Control and eradication programmes - official sampling											
Meat from horse - fresh - at catering - Control and eradication programmes - official sampling											
Meat from horse - meat products - unspecified - Control and eradication programmes - official sampling											
Meat from other animal species or not specified - fresh - unspecified - Surveillance - HACCP and own checks (Wildlife)											

	S. Bovismorbific ans	S. Brandenburg	S. Bredeney	S. Derby	S. Goldcoast	S. II 1,4,12:-:-	S. Infantis	S. Kapemba	S. London	S. Manhattan	S. Newport
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks (Wildlife)											
Meat from pig - fresh - at catering - Control and eradication programmes - official sampling											
Meat from pig - fresh - at processing plant - Control and eradication programmes - official sampling											
Meat from pig - fresh - at retail - Survey - national survey											
Meat from pig - fresh - unspecified - Clinical investigations											
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling				9							
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks											
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks (single)											
Meat from pig - fresh - unspecified - Survey - national survey				1							
Meat from pig - meat preparation - at retail - Control and eradication programmes - official sampling											1
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		15									

	S. Bovismorbific ans	S. Brandenburg	S. Bredeney	S. Derby	S. Goldcoast	S. II 1,4,12:-:-	S. Infantis	S. Kapemba	S. London	S. Manhattan	S. Newport
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling (batch)											
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling (weight)											
Meat from pig - meat preparation - unspecified - Surveillance - HACCP and own checks											
Meat from pig - meat products - at catering - Control and eradication programmes							1				
Meat from pig - meat products - at processing plant - Control and eradication programmes											
Meat from pig - meat products - at retail - Clinical investigations											
Meat from pig - meat products - at retail - Control and eradication programmes											
Meat from pig - meat products - at retail - Control and eradication programmes (weight)			1	1							
Meat from pig - meat products - at retail - Control and eradication programmes - official sampling - suspect sampling											
Meat from pig - meat products - at retail - Surveillance - HACCP and own checks											
Meat from pig - meat products - at retail - Survey - national survey											

	S. Bovismorbific ans	S. Brandenburg	S. Bredeney	S. Derby	S. Goldcoast	S. II 1,4,12:-:-	S. Infantis	S. Kapemba	S. London	S. Manhattan	S. Newport
Meat from pig - meat products - unspecified - Clinical investigations								1			
Meat from pig - meat products - unspecified - Control and eradication programmes											
Meat from pig - meat products - unspecified - Control and eradication programmes (Single)	2			8	1	25			5	10	
Meat from pig - meat products - unspecified - Surveillance - HACCP and own checks											
Meat from pig - minced meat - Control and eradication programmes - official sampling						1	1				
Meat from pig - minced meat - Surveillance - HACCP and own checks											
Meat from pig - offal - Clinical investigations											
Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling											
Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling (Batch)											
Meat from sheep - meat preparation - unspecified - Control and eradication programmes - official sampling											
Meat from sheep - meat products - unspecified - Control and eradication programmes - official sampling											

	S. Rissen	S. enterica subsp. enterica	S. group B
Meat from bovine animals - fresh - at catering - Control and eradication programmes - official sampling			
Meat from bovine animals - fresh - at retail - Survey - national survey			
Meat from bovine animals - fresh - at slaughterhouse - Clinical investigations			
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Survey - national survey			
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling			
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (batch)			
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling (no weight)			
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks			
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks (single)			
Meat from bovine animals - meat preparation - at slaughterhouse - animal sample - Survey - national survey			1

	S. Rissen	S. enterica subsp. enterica	S. group B
Meat from bovine animals - meat preparation - unspecified - Control and eradication programmes - official sampling			
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling			
Meat from bovine animals - meat products - unspecified - Control and eradication programmes - official sampling (batch)			
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling			
Meat from bovine animals - minced meat - Control and eradication programmes - official sampling (batch)			
Meat from bovine animals - minced meat - at retail - Clinical investigations			
Meat from bovine animals - offal - Control and eradication programmes - official sampling			
Meat from horse - fresh - at catering - Control and eradication programmes - official sampling			
Meat from horse - meat products - unspecified - Control and eradication programmes - official sampling			
Meat from other animal species or not specified - fresh - unspecified - Surveillance - HACCP and own checks (Wildlife)			

	S. Rissen	S. enterica subsp. enterica	S. group B
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks (Wildlife)			
Meat from pig - fresh - at catering - Control and eradication programmes - official sampling			
Meat from pig - fresh - at processing plant - Control and eradication programmes - official sampling			
Meat from pig - fresh - at retail - Survey - national survey			
Meat from pig - fresh - unspecified - Clinical investigations			
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling	2		
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks			
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks (single)			
Meat from pig - fresh - unspecified - Survey - national survey			
Meat from pig - meat preparation - at retail - Control and eradication programmes - official sampling			
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling			

	S. Rissen	S. enterica subsp. enterica	S. group B
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling (batch)			
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling (weight)			
Meat from pig - meat preparation - unspecified - Surveillance - HACCP and own checks			
Meat from pig - meat products - at catering - Control and eradication programmes			
Meat from pig - meat products - at processing plant - Control and eradication programmes			
Meat from pig - meat products - at retail - Clinical investigations			
Meat from pig - meat products - at retail - Control and eradication programmes			
Meat from pig - meat products - at retail - Control and eradication programmes (weight)			
Meat from pig - meat products - at retail - Control and eradication programmes - official sampling - suspect sampling			
Meat from pig - meat products - at retail - Surveillance - HACCP and own checks			
Meat from pig - meat products - at retail - Survey - national survey			

	S. Rissen	S. enterica subsp. enterica	S. group B
Meat from pig - meat products - unspecified - Clinical investigations			
Meat from pig - meat products - unspecified - Control and eradication programmes			
Meat from pig - meat products - unspecified - Control and eradication programmes (Single)	11		
Meat from pig - meat products - unspecified - Surveillance - HACCP and own checks			
Meat from pig - minced meat - Control and eradication programmes - official sampling			
Meat from pig - minced meat - Surveillance - HACCP and own checks			
Meat from pig - offal - Clinical investigations			
Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling			
Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling (Batch)			
Meat from sheep - meat preparation - unspecified - Control and eradication programmes - official sampling		1	
Meat from sheep - meat products - unspecified - Control and eradication programmes - official sampling			

Comments:

Comments:

- ¹⁾ The same sample result positive from more than one serotype
- ²⁾ The same sample result positive from more than one serotype
- ³⁾ The same sample result positive from more than one serotype

2.1.3 Salmonella in animals

A. Salmonella spp. in Gallus Gallus - breeding flocks

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

Official checks in the flocks of breeding flocks of Gallus gallus are carried out on the national territory, as it's layed down in the national control plan, approved by the European Commission with Decision 2009/883/EC, and include actions and samples.

Relevant serotypes: Salmonella Tiphymurium, Enteritidis, Virchow, Infantis, Hadar.

Data validated by the Regions in the national informative system:

1111: Total number of the flocks

9.699.192: Total number of the animals

893: Total number of the flocks included in the programme

7.874.872: Total number in the animals included in the programme

915: Number of the checked flocks

Therefore the per cent of the sampling is 102%, in our opinion a good result.

The Union target for the reduction of the prevalence of the relevant Salmonella (Enteritidis, Typhimurium, Virchow, Infantis, Hadar) in breeding flocks of Gallus gallus shall be a reduction of the maximum annual percentage of flocks of broilers remaining positive for S. Enteritidis and Typhimurium equal to 1% or less: the prevalence comes of data sent to the Commission is 0,76% in 2010.

7 Number of the positive flocks to Serotypes included in the control programme

23 Number of the positive flocks to other serotypes

2 Number of the depopulated flocks for Serotypes included in the control programme

6 Number of the depopulated flocks for other serotypes

18.469 Total number of the slaughtered or destroyed animals for Serotypes included in the control programme

26.000 Total number of the slaughtered or destroyed animals for other serotypes

264.139 Number of the destroyed eggs for Serotypes included in the control programme

0 Number of the destroyed eggs for other serotypes

64.740 Number of the eggs destined to ovoproducts for Serotypes included in the control programme

0 Number of the eggs destined to ovoproducts for other serotypes

The national control plan was carried out the first time in 2007.

The results of the application of the programme are:

Number of the checked flocks

391 in 2007

428 in 2008

551 in 2009

915 in 2010

Number of the positive flocks to Serotypes included in the control programme

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2 in 2007

11 in 2008

8 in 2009

7 in 2010

Number of the positive flocks to other serotypes

4 in 2007

28 in 2008

33 in 2009

23 in 2010

At 31/12/2010 are registered in the National Data Bank for Poultry 355 holdings of breeding flocks of Gallus gallus, with capacity equal or greater than 250 animals.

B. Salmonella spp. in Gallus Gallus - broiler flocks

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

Official checks in the flocks of broilers Gallus gallus are carried out on the national territory, as it's layed down in the National control plan, approved by the European Commission with Decision 2009/883/EC, and include actions and samples.

Relevant serotypes: Salmonella Tiphymurium ed Enteritidis.

Data validated by the Regions in the national informative system:

33.939: Total number of the flocks

270.684.807: Total number of the animals

719: Total number of the flocks included in the programme

15.045.673: Total number in the animals included in the programme

949: Number of the checked flocks

Therefore the per cent of the sampling is 131,9%, in our opinion a very good result.

The Union target for the reduction of the prevalence of Salmonella Enteritidis and Typhimurium in broilers shall be a reduction of the maximum annual percentage of flocks of broilers remaining positive for S. Enteritidis and Typhimurium equal to 1% or less within 31st December 2011: the prevalence comes of data sent to the Commission is 0,73% in 2010.

Data validated by the Region in the national informative system:

7 Number of the positive flocks to Serotypes included in the control programme

131 Number of the positive flocks to other serotypes

4 Number of the depopulated flocks for Serotypes included in the control programme

15 Number of the depopulated flocks for other serotypes

48.000 Total number of the slaughtered or destroyed animals for Serotypes included in the control programme

127.860 Total number of the slaughtered or destroyed animals for other serotypes

The national control plan was carried out the first time in 2009.

The results of the application of the programme are:

Number of the checked flocks 2072 in 2009 949 in 2010

Number of the positive flocks to Serotypes included in the control programme 21 in 2009

7 in 2010

Number of the positive flocks to other serotypes 376 in 2009 131 in 2010

At 31/12/2010 are registered in the National Data Bank for Poultry 2864 holdings of broilers, with capacity equal or greater than 250 animals. 231 have a capacity equal or greater than 5000 animals, the level

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layed down in the plan.

Self owner samples- since 2009, it's mandatory the recording in the national informative system "National salmonellosis control plan" of the data about the samples carried out by the operators. In 2010 there were in the system the data concerned to 14.013 checked flocks and only one positivity of relevant salmonella was recorded.

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

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

Official checks in the flocks of laying hens are carried out on the national territory, as it's layed down in the national control plan, approved by the European Commission with Decision 2009/883/EC, and include actions and samples.

Relevant serotypes: Salmonella Tiphymurium ed Enteritidis.

Data validated by the Regions in the national informative system:

2817 Total number of the flocks, 51.176.092 Total number of the animals, 1284 Total number of the flocks included in the programme, 23.087.780 Total number of the animals included in the programme, 1206 Number of the checked flocks

39 Number of the positive flocks to Serotypes included in the control programme

147 Number of the positive flocks to other serotypes

22 Number of the depopulated flocks for Serotypes included in the control programme

16 Number of the depopulated flocks for other serotypes

371657 Total number of the slaughtered or destroyed animals for Serotypes included in the control programme

416777 Total number of the slaughtered or destroyed animals for other serotypes

318.915 Number of the destroyed eggs for Serotypes included in the control programme

169657 Number of the destroyed eggs for other serotypes

737.087 Number of the eggs destined to ovoproducts for Serotypes included in the control programme 367.791 Number of the eggs destined to ovoproducts for other serotypes

The per cent of the sampling is 93,9%.

The Community target in adult laying hens shall be an annual minimum percentage of reduction of positive flocks of adult laying hens equal to at least 10% if the prevalence in the preceding year was less than 10%::the prevalence comes of data sent to the Commission is 3,2% in 2010.

The national control plan was carried out the first time in 2008.

The results of the application of the programme are:

Number of the checked flocks 798 in 2008 921 in 2009 1206 in 2010

Number of the positive flocks to Serotypes included in the control programme

54 in 2008

18 in 2009

39 in 2010

Number of the positive flocks to other serotypes

108 in 2008

113 in 2009

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147 in 2010

At 31/12/2010 are registered in the National Data Bank for Poultry 1304 holdings of laying hens, with capacity equal or greater than 250 animals. 1160 have a capacity equal or greater than 1000 animals, the level layed down in the plan.

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

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

Official checks in the flocks of breeder turkeys are carried out on the national territory, as it's layed down in the National control plan, approved by the European Commission with Decision 2009/883/EC, and include actions and samples.

Relevant serotypes: Salmonella Tiphymurium ed Enteritidis.

Data validated by the Regions in the national informative system

193 Total number of the flocks, 726.148 Total number of the animals,20 Total number of the flocks included in the programme, 82.256 Total number of the animals included in the programme, 36 Total number of the checked flocks. No positive flocks.

Therefore the per cent of the sampling is 180%, in our opinion a very good result.

In the first year of the application of the plan, we reached the goal.

We started with a prevalence of 8,3%, on the basis of the criteria of the Decision 2006/662/CE (baseline study).

The Union target for the reduction of the prevalence of Salmonella Enteritidis and Typhimurium in breeder turkeys shall be a reduction of the maximum annual percentage of flocks of breeder turkeys remaining positive for S. Enteritidis and Typhimurium equal to 1% or less within 31st December 2012: the prevalence comes of data sent to the Commission is 0% in 2010, on much more sampled flocks.

The national control plan was carried out the first time in 2010.

At 31/12/2010 are registered in the National Data Bank for Poultry 52 holdings of breeder turkeys, with capacity equal or greater than 250 animals, the level layed down in the plan.

Salmonellosis control plan in fattening turkeys

Official checks in the flocks of fattening turkeys are carried out on the national territory, as it's layed down in the National control plan, approved by the European Commission with Decision 2009/883/EC, and include actions and samples.

Relevant serotypes: Salmonella Tiphymurium ed Enteritidis.

Data validated by the Regions in the national informative system:

3841 Total number of the flocks, 25.200.218 Total number of the animals, 476 Total number of the flocks included in the programme, 3.195.342 Total number of the animals included in the programme, 347 Total of the checked flocks,

The per cent of the sampling is 72,9%. The results are:

8 Number of the flocks positive to Serotypes included in the control programs

115 Number of the flocks positive to other serotypes

4 Number of the depopulated flocks for Serotypes included in the control programs

8 Number of the depopulated flocks for other serotypes

11280 Total number of the slaughtered or destroyed animals for Serotypes included in the control programs

66900 Total number of the slaughtered or destroyed animals for other serotypes

The national control plan was carried out the first time in 2010.

At 31/12/2010 are registered in the National Data Bank for Poultry 859 holdings of fattening turkeys, with capacity equal or greater than 250 animals. 857 have a capacity equal or greater than 500 animals, the level layed down in the plan.

Self owner samples-

It's mandatory the recording in the National informative system "National salmonellosis control plan" of the data about the samples carried out by the operators. In 2010 there were in the system the data concerned to 2670 checked flocks and four positivities of relevant salmonella were recorded.

Table Salmonella in breeding flocks of Gallus gallus

	Number of existing flocks	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Hadar	S. Infantis	S. Typhimurium	S. Virchow	S. 1,4,[5],12:i: -
Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	0		Flock	0	0	0	0	0	0	0	0
Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	1111		Flock	6	0						
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	1111		Flock	23	1						
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	1111		Flock	10	0						
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	1111		Flock	8	0						
Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling			Flock	626	22		2		1	1	
Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official	1111		Flock	13	0						

sampling

Table Salmonella in breeding flocks of Gallus gallus

Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm -

Control and eradication programmes - official

sampling

S. Number of Total units Sampling unit Units tested S. 1,4,[5],12:i: Source of existing flocks positive for S. Enteritidis S. Hadar S. Infantis Typhimurium S. Virchow information Salmonella Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at 1111 Flock 46 0 farm - Control and eradication programmes - official sampling Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and 1111 Flock 297 11 eradication programmes - official sampling Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control 1111 Flock 16 0 and eradication programmes - official sampling

20

1

	Salmonella spp., unspecified	Other serovars	S. Cerro	S. Galiema	S. Gallinarum	S. Livingstone	S. Mbandaka	S. Montevideo	S. Muenchen	S. enterica subsp. enterica
Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	0	0	0	0	0	0	0	0	0	0
Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling										

Flock

1111

Table Salmonella in breeding flocks of Gallus gallus

	Salmonella spp., unspecified	Other serovars	S. Cerro	S. Galiema	S. Gallinarum	S. Livingstone	S. Mbandaka	S. Montevideo	S. Muenchen	S. enterica subsp. enterica
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling			1							
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling										
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling										
Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	4	2				2	3	7		
Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official sampling										
Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling										
Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	1	2							8	
Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	0									

Salmonella S. enterica S. Gallinarum S. Other S. S. Cerro S. Galiema S. Mbandaka S. Muenchen spp., subsp. Montevideo Livingstone serovars unspecified enterica Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm -Control and eradication programmes - official sampling

Comments:

1) 0

Footnote:

The number 1111 is the TOTAL number of existing breeding flocks of gallus gallus, does not refer to a specific line or age The following amendments were made:

Table Salmonella in breeding flocks of Gallus gallus

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Units tested		13

Date of Modification	Row name	Column name	Old value	New value		
2011-12-15	Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Sampling unit	Sampling unit			
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Units tested		46		
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella	Total units positive for Salmonella 16			
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified	35	0		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Virchow		1		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Montevideo		7		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		22		
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Other serovars		2		

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Mbandaka		3
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		4
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Hadar		2
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Typhimurium		1
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Units tested		626
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Livingstone		2
	Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	S. Cerro		1
	Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		1

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Units tested		23
	Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Units tested		6
	Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Number of existing flocks	1111	0
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Units tested		8
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Units tested		10
	Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		16
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Units tested		16
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - parent breeding flocks for egg production line - day-old chicks - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		35

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		1
	Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Units tested		20
	Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - parent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		1
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Comment	new	0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Other serovars		2
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	S. Muenchen		8
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Mbandaka	3	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified	6	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Hadar	2	0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Units tested		297
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Cerro	1	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Galiema		0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		1
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Other serovars	4	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. 1,4,[5],12:i:-		0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Infantis		0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Number of existing flocks		1111
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Virchow	1	0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		11

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Montevideo	7	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Enteritidis	7	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella	30	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Units tested	915	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Livingstone	2	0
	Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Typhimurium	1	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Muenchen	8	0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. Gallinarum		0
	Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	S. enterica subsp. enterica		0
		Footnote		The number 1111 is the TOTAL number of existing breeding flocks of gallus gallus, it is not referred to a specific line or age
	Footnote		The number 1111 is the TOTAL number of existing breeding flocks of gallus gallus, it is not referred to a specific line or age	The number 1111 is the TOTAL number of existing breeding flocks of gallus gallus, does not refer to a specific line or age

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	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Agona	S. Hessarek	S. Infantis	S. Livingstone
Birds - pet animals - at farm - animal sample - Survey - national survey		Animal	32	0							
Birds - wild - Clinical investigations		Animal	242	8	1		2		1	1	1
Birds - wild - Control and eradication programmes - official sampling		Animal	528	11		8					
Birds - wild - Survey - national survey		Animal	52	0							
Canary - Clinical investigations		Animal	50	2		2					
Falcons		Animal	9	0							
Guinea fowl - at farm - animal sample		Animal	15	0							
Guinea fowl - at farm - animal sample - Control and eradication programmes - official sampling		Animal	61	0							
Gulls - unspecified (wild)		Animal	14	1							1
Ostriches - at farm - animal sample		Animal	13	0							
Parrots		Animal	8	0							
Parrots - pet animals		Animal	12	0							
Partridges - unspecified		Animal	11	0							
Pheasants - at farm - animal sample - Clinical investigations		Animal	35	2			2				
Pheasants - at farm - animal sample - Control and eradication programmes - official sampling		Animal	32	0							
Pigeons - Clinical investigations		Animal	842	6		6					

Table Salmonella in other birds

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	S. Agona	S. Hessarek	S. Infantis	S. Livingstone
Pigeons - Control and eradication programmes - official sampling		Animal	418	9		8	1				
Pigeons - Survey - national survey		Animal	61	2		2					
Quails - Clinical investigations		Animal	14	0							
Quails - unspecified - Control and eradication programmes - official sampling		Animal	10	4		1		2			1

	S. London	S. Montevideo	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Birds - pet animals - at farm - animal sample - Survey - national survey				
Birds - wild - Clinical investigations		1	1	
Birds - wild - Control and eradication programmes - official sampling	2			1
Birds - wild - Survey - national survey				
Canary - Clinical investigations				
Falcons				
Guinea fowl - at farm - animal sample				
Guinea fowl - at farm - animal sample - Control and eradication programmes - official sampling				
Gulls - unspecified (wild)				

Table Salmonella in other birds

	S. London	S. Montevideo	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Ostriches - at farm - animal sample				
Parrots				
Parrots - pet animals				
Partridges - unspecified				
Pheasants - at farm - animal sample - Clinical investigations				
Pheasants - at farm - animal sample - Control and eradication programmes - official sampling				
Pigeons - Clinical investigations				
Pigeons - Control and eradication programmes - official sampling				
Pigeons - Survey - national survey				
Quails - Clinical investigations				
Quails - unspecified - Control and eradication programmes - official sampling				

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Solipeds, domestic		Animal	15	0							
Badgers - Control and eradication programmes - official sampling		Animal	8	0							
Badgers - wild - unspecified - Clinical investigations		Animal	5	1					1		
Badgers - wild - unspecified - Control and eradication programmes - official sampling		Animal	52	7		3			4		
Badgers - wild - unspecified - Survey - national survey		Animal	5	2		1					
Bison - unspecified - Clinical investigations		Animal	2	0							
Camels - unspecified - Clinical investigations		Animal	2	0							
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks		Animal	27	0							
Cats - pet animals - unspecified		Animal	10	0							
Cats - pet animals - unspecified - Clinical investigations		Animal	72	0							
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	11	0							
Cattle (bovine animals) - Clinical investigations		Animal	240	8				7			
Cattle (bovine animals) - adult cattle over 2 years - unspecified - Control and eradication programmes - official sampling		Animal	11	0							

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		Herd	144	4				2			
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling		Animal	101	13				13			
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling (herd)		Herd	4	0							
Cattle (bovine animals) - at farm - animal sample - Surveillance - HACCP and own checks (herd)		Animal	143	1				1			
Cattle (bovine animals) - at farm - animal sample - Survey - national survey (herd)		Animal	493	3				3			
Cattle (bovine animals) - at retail - Control and eradication programmes - official sampling		Animal	6	0							
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	770	0							
Cattle (bovine animals) - at slaughterhouse - animal sample - Surveillance - HACCP and own checks (herd)		Animal	7	0							
Cattle (bovine animals) - at slaughterhouse - animal sample - Survey - national survey (herd)		Animal	3	0							
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations		Animal	2	0							
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks		Animal	11	4				4			

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Cattle (bovine animals) - breeding bulls - unspecified - Clinical investigations		Herd	2	0							
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations		Herd	20	2		1					
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations		Herd	1	0							
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations		Animal	10	0							
Cattle (bovine animals) - dairy cows - at farm - Surveillance - HACCP and own checks		Animal	4	0							
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations		Animal	7	0							
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		Herd	16	3							
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling		Animal	598	27		4		3			
Deer - farmed - roe deer - unspecified - Surveillance - HACCP and own checks		Animal	29	0							
Deer - unspecified - Clinical investigations		Animal	1	0							
Deer - unspecified - Surveillance - HACCP and own checks		Animal	5	0							
Deer - wild - fallow deer - unspecified - Clinical investigations		Animal	13	0							

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Deer - wild - roe deer - unspecified - Clinical investigations		Animal	12	0							
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling		Animal	35	3					2		
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	42	0							
Deer - wild - unspecified - Survey - national survey		Animal	32	0							
Dogs - pet animals - Clinical investigations		Animal	254	2		1					
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	39	0							
Dogs - pet animals - unspecified - Survey - national survey		Animal	49	10				3			
Fish - unspecified - Clinical investigations		Animal	2	0							
Fish - unspecified - Control and eradication programmes - official sampling		Animal	41	1							
Fish - unspecified - Survey - national survey		Animal	4	2							
Foxes - wild - Control and eradication programmes - official sampling		Animal	667	44	2	8		4	12		
Foxes - wild - unspecified - Survey - national survey		Animal	36	2		1					
Goats - at farm - animal sample - Clinical investigations		Herd	97	5							

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Goats - at farm - animal sample - Clinical investigations (animal)		Animal	21	0							
Hares - wild - Clinical investigations		Animal	46	1				1			
Hares - wild - unspecified - Control and eradication programmes - official sampling		Animal	34	1							
Hedgehogs - wild - unspecified		Animal	10	1	1						
Marten - wild - unspecified - Clinical investigations		Animal	12	0							
Mice - wild - unspecified		Animal	13	0							
Minks - farmed - at retail - Clinical investigations		Animal	1	0							
Monkeys - zoo animal - Clinical investigations		Animal	110	2							
Mouflons - wild - unspecified - Clinical investigations		Animal	24	0							
Other animals - unspecified - Clinical investigations		Animal	172	25		5		7	6		
Other animals - unspecified - Control and eradication programmes - official sampling		Animal	42	0							
Other animals - unspecified - at farm - Surveillance - HACCP and own checks		Animal	18	1				1			
Other animals - unspecified - at farm - animal sample - Survey - national survey		Animal	11	0							
Pet animals, all - unspecified - Survey - national survey (dogs or cats)		Animal	161	1			1				

Total units Salmonella S. Enteritidis Typhimurium S. 1,4,[5],12:i: Source of Sampling unit Other S. Units tested S. Abony positive for spp., information Abortusegui serovars Salmonella unspecified 2 Pigs - Surveillance - HACCP and own checks Animal 23 2 Pigs - Survey - national survey Animal 33 5 Pigs - at farm - animal sample - Clinical Animal 28 3 3 investigations Pigs - at farm - animal sample - Clinical Herd 28 4 investigations (herd) Pigs - at farm - animal sample - Control and Animal 20 0 eradication programmes - official sampling Pigs - at farm - animal sample - Control and eradication programmes - official sampling -14 9 Holding 4 objective sampling Pigs - at farm - animal sample - Survey - national 1272 7 2 Animal 1 survey Pigs - at farm - environmental sample - Survey -37 0 Herd national survey Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling Animal 13 0 Pigs - unspecified - Control and eradication 31 0 Herd programmes - official sampling Pigs - unspecified - Survey - national survey Animal 36 5 0 91 Rabbits - Clinical investigations Animal Rabbits - farmed - Control and eradication

10

0

Animal

programmes - official sampling

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Rabbits - farmed - Surveillance - HACCP and own checks		Animal	57	0							
Rabbits - farmed - at farm - animal sample - Survey - national survey		Animal	83	0							
Rabbits - farmed - unspecified - Clinical investigations		Herd	20	0							
Rabbits - unspecified - Survey - national survey		Animal	23	0							
Rodents - wild - unspecified		Animal	20	1							
Sheep - at farm - animal sample - Clinical investigations		Animal	39	3				2			
Sheep - at farm - animal sample - Clinical investigations (herd)		Herd	394	144				2	2		
Sheep - at farm - animal sample - Clinical investigations (holding)		Holding	19	1		1					
Sheep - at farm - animal sample - Survey - national survey (animal)		Animal	17	0							
Sheep - at farm - animal sample - Survey - national survey (herd)		Herd	36	14							
Sheep - unspecified - Control and eradication programmes - official sampling		Animal	36	17				15	1		
Sheep and goats - Clinical investigations		Animal	178	1				1			
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks		Animal	180	8				8			

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abony	S. Abortusequi
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	310	6				4	2		
Solipeds, domestic - horses - Control and eradication programmes - official sampling		Animal	11	0							
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		Animal	32	5				2			3
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)		Herd	48	3		2			1		
Turtles - pet animals - unspecified - Clinical investigations		Animal	56	7				1	4	2	
Turtles - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	24	2		1					
Turtles - pet animals - unspecified - Survey - national survey		Animal	10	4		1			2		
Water buffalos - farmed - Clinical investigations		Herd	13	3					1		
Water buffalos - farmed - at farm - animal sample - Clinical investigations		Animal	14	1							
Water buffalos - farmed - at farm - animal sample - Survey - national survey		Animal	360	5				5			
Wild animals - Clinical investigations		Animal	77	3				1	2		
Wild animals - Control and eradication programmes - official sampling		Animal	62	2				1			
Wild animals - Survey - national survey		Animal	90	0							
Wild animals - unspecified		Animal	18	0							

Total units Salmonella positive for S. Enteritidis Typhimurium S. 1,4,[5],12:i: S. Source of Sampling unit Other Units tested S. Abony spp., Abortusequi information serovars Salmonella unspecified Wild boars - farmed - at farm - Survey - national 5 Animal 1 1 survey 34 Wild boars - unspecified - Clinical investigations Herd 0 Wild boars - wild - unspecified - Clinical Animal 356 24 4 4 investigations Wild boars - wild - unspecified - Control and Herd 210 0 eradication programmes - official sampling Wild boars - wild - unspecified - Control and eradication programmes - official sampling (animal) Animal 857 64 2 5 4 5 Wild boars - wild - unspecified - Survey - national Animal 38 0 survey Zoo animals, all - unspecified - Clinical Animal 40 5 2 investigations

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Solipeds, domestic											
Badgers - Control and eradication programmes - official sampling											
Badgers - wild - unspecified - Clinical investigations											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Badgers - wild - unspecified - Control and eradication programmes - official sampling											
Badgers - wild - unspecified - Survey - national survey											
Bison - unspecified - Clinical investigations											
Camels - unspecified - Clinical investigations											
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks											
Cats - pet animals - unspecified											
Cats - pet animals - unspecified - Clinical investigations											
Cats - pet animals - unspecified - Control and eradication programmes - official sampling											
Cattle (bovine animals) - Clinical investigations	1										
Cattle (bovine animals) - adult cattle over 2 years - unspecified - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at farm - animal sample - Clinical investigations											
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling (herd)											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Cattle (bovine animals) - at farm - animal sample - Surveillance - HACCP and own checks (herd)											
Cattle (bovine animals) - at farm - animal sample - Survey - national survey (herd)											
Cattle (bovine animals) - at retail - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at slaughterhouse - animal sample - Surveillance - HACCP and own checks (herd)											
Cattle (bovine animals) - at slaughterhouse - animal sample - Survey - national survey (herd)											
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations											
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks											
Cattle (bovine animals) - breeding bulls - unspecified - Clinical investigations											
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations											
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Surveillance - HACCP and own checks											
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations											
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling					4				1		15
Deer - farmed - roe deer - unspecified - Surveillance - HACCP and own checks											
Deer - unspecified - Clinical investigations											
Deer - unspecified - Surveillance - HACCP and own checks											
Deer - wild - fallow deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling											
Deer - wild - unspecified - Control and eradication programmes - official sampling											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Deer - wild - unspecified - Survey - national survey											
Dogs - pet animals - Clinical investigations											
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling											
Dogs - pet animals - unspecified - Survey - national survey											
Fish - unspecified - Clinical investigations											
Fish - unspecified - Control and eradication programmes - official sampling						1					
Fish - unspecified - Survey - national survey										2	
Foxes - wild - Control and eradication programmes - official sampling								1			
Foxes - wild - unspecified - Survey - national survey											
Goats - at farm - animal sample - Clinical investigations	5										
Goats - at farm - animal sample - Clinical investigations (animal)											
Hares - wild - Clinical investigations											
Hares - wild - unspecified - Control and eradication programmes - official sampling											
Hedgehogs - wild - unspecified											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Marten - wild - unspecified - Clinical investigations											
Mice - wild - unspecified											
Minks - farmed - at retail - Clinical investigations											
Monkeys - zoo animal - Clinical investigations								2			
Mouflons - wild - unspecified - Clinical investigations											
Other animals - unspecified - Clinical investigations								3			
Other animals - unspecified - Control and eradication programmes - official sampling											
Other animals - unspecified - at farm - Surveillance - HACCP and own checks											
Other animals - unspecified - at farm - animal sample - Survey - national survey											
Pet animals, all - unspecified - Survey - national survey (dogs or cats)											
Pigs - Surveillance - HACCP and own checks											
Pigs - Survey - national survey				4							
Pigs - at farm - animal sample - Clinical investigations											
Pigs - at farm - animal sample - Clinical investigations (herd)				3							

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Pigs - at farm - animal sample - Control and eradication programmes - official sampling											
Pigs - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling											
Pigs - at farm - animal sample - Survey - national survey		2									
Pigs - at farm - environmental sample - Survey - national survey											
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling											
Pigs - unspecified - Control and eradication programmes - official sampling											
Pigs - unspecified - Survey - national survey				4							
Rabbits - Clinical investigations											
Rabbits - farmed - Control and eradication programmes - official sampling											
Rabbits - farmed - Surveillance - HACCP and own checks											
Rabbits - farmed - at farm - animal sample - Survey - national survey											
Rabbits - farmed - unspecified - Clinical investigations											
Rabbits - unspecified - Survey - national survey											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Rodents - wild - unspecified									1		
Sheep - at farm - animal sample - Clinical investigations	1										
Sheep - at farm - animal sample - Clinical investigations (herd)	137										
Sheep - at farm - animal sample - Clinical investigations (holding)											
Sheep - at farm - animal sample - Survey - national survey (animal)											
Sheep - at farm - animal sample - Survey - national survey (herd)	14										
Sheep - unspecified - Control and eradication programmes - official sampling	1										
Sheep and goats - Clinical investigations											
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks											
Sheep and goats - at farm - animal sample - Survey - national survey											
Solipeds, domestic - horses - Control and eradication programmes - official sampling											
Solipeds, domestic - horses - at farm - animal											

sample - Clinical investigations

Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Turtles - pet animals - unspecified - Clinical investigations											
Turtles - pet animals - unspecified - Control and eradication programmes - official sampling											
Turtles - pet animals - unspecified - Survey - national survey											
Water buffalos - farmed - Clinical investigations				2							
Water buffalos - farmed - at farm - animal sample - Clinical investigations											
Water buffalos - farmed - at farm - animal sample - Survey - national survey											
Wild animals - Clinical investigations											
Wild animals - Control and eradication programmes - official sampling											
Wild animals - Survey - national survey											
Wild animals - unspecified											
Wild boars - farmed - at farm - Survey - national survey											
Wild boars - unspecified - Clinical investigations											
Wild boars - wild - unspecified - Clinical investigations		1					5				
Wild boars - wild - unspecified - Control and eradication programmes - official sampling											

	S. Abortusovis	S. Choleraesuis	S. Coeln	S. Derby	S. Dublin	S. Elisabethville	S. Fischerhuette	S. Hadar	S. Havana	S. Hvittingfoss	S. II 1,4,12,27:z:e, n,x
Wild boars - wild - unspecified - Control and eradication programmes - official sampling (animal)		3	11								
Wild boars - wild - unspecified - Survey - national survey											
Zoo animals, all - unspecified - Clinical investigations											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Solipeds, domestic											
Badgers - Control and eradication programmes - official sampling											
Badgers - wild - unspecified - Clinical investigations											
Badgers - wild - unspecified - Control and eradication programmes - official sampling											
Badgers - wild - unspecified - Survey - national survey	1										
Bison - unspecified - Clinical investigations											
Camels - unspecified - Clinical investigations											
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Cats - pet animals - unspecified											
Cats - pet animals - unspecified - Clinical investigations											
Cats - pet animals - unspecified - Control and eradication programmes - official sampling											
Cattle (bovine animals) - Clinical investigations											
Cattle (bovine animals) - adult cattle over 2 years - unspecified - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at farm - animal sample - Clinical investigations	1							1			
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling (herd)											
Cattle (bovine animals) - at farm - animal sample - Surveillance - HACCP and own checks (herd)											
Cattle (bovine animals) - at farm - animal sample - Survey - national survey (herd)											
Cattle (bovine animals) - at retail - Control and eradication programmes - official sampling											
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Cattle (bovine animals) - at slaughterhouse - animal sample - Surveillance - HACCP and own checks (herd)											
Cattle (bovine animals) - at slaughterhouse - animal sample - Survey - national survey (herd)											
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations											
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks											
Cattle (bovine animals) - breeding bulls - unspecified - Clinical investigations											
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations	1										
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations											
Cattle (bovine animals) - dairy cows - at farm - Surveillance - HACCP and own checks											
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations											
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		1		1	1					1	

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling											
Deer - farmed - roe deer - unspecified - Surveillance - HACCP and own checks											
Deer - unspecified - Clinical investigations											
Deer - unspecified - Surveillance - HACCP and own checks											
Deer - wild - fallow deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Clinical investigations											
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling					1						
Deer - wild - unspecified - Control and eradication programmes - official sampling											
Deer - wild - unspecified - Survey - national survey											
Dogs - pet animals - Clinical investigations	1										
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling											
Dogs - pet animals - unspecified - Survey - national survey	7										
Fish - unspecified - Clinical investigations											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Fish - unspecified - Control and eradication programmes - official sampling											
Fish - unspecified - Survey - national survey											
Foxes - wild - Control and eradication programmes - official sampling	1			2	3					1	
Foxes - wild - unspecified - Survey - national survey										1	
Goats - at farm - animal sample - Clinical investigations											
Goats - at farm - animal sample - Clinical investigations (animal)											
Hares - wild - Clinical investigations											
Hares - wild - unspecified - Control and eradication programmes - official sampling											
Hedgehogs - wild - unspecified											
Marten - wild - unspecified - Clinical investigations											
Mice - wild - unspecified											
Minks - farmed - at retail - Clinical investigations											
Monkeys - zoo animal - Clinical investigations											
Mouflons - wild - unspecified - Clinical investigations											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Other animals - unspecified - Clinical investigations			4								
Other animals - unspecified - Control and eradication programmes - official sampling											
Other animals - unspecified - at farm - Surveillance - HACCP and own checks											
Other animals - unspecified - at farm - animal sample - Survey - national survey											
Pet animals, all - unspecified - Survey - national survey (dogs or cats)											
Pigs - Surveillance - HACCP and own checks											
Pigs - Survey - national survey											
Pigs - at farm - animal sample - Clinical investigations											
Pigs - at farm - animal sample - Clinical investigations (herd)											
Pigs - at farm - animal sample - Control and eradication programmes - official sampling											
Pigs - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling									5		
Pigs - at farm - animal sample - Survey - national survey											
Pigs - at farm - environmental sample - Survey - national survey											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling											
Pigs - unspecified - Control and eradication programmes - official sampling											
Pigs - unspecified - Survey - national survey											
Rabbits - Clinical investigations											
Rabbits - farmed - Control and eradication programmes - official sampling											
Rabbits - farmed - Surveillance - HACCP and own checks											
Rabbits - farmed - at farm - animal sample - Survey - national survey											
Rabbits - farmed - unspecified - Clinical investigations											
Rabbits - unspecified - Survey - national survey											
Rodents - wild - unspecified											
Sheep - at farm - animal sample - Clinical investigations											
Sheep - at farm - animal sample - Clinical investigations (herd)											
Sheep - at farm - animal sample - Clinical investigations (holding)											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Sheep - at farm - animal sample - Survey - national survey (animal)											
Sheep - at farm - animal sample - Survey - national survey (herd)											
Sheep - unspecified - Control and eradication programmes - official sampling											
Sheep and goats - Clinical investigations											
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks											
Sheep and goats - at farm - animal sample - Survey - national survey											
Solipeds, domestic - horses - Control and eradication programmes - official sampling											
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations											
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)											
Turtles - pet animals - unspecified - Clinical investigations											
Turtles - pet animals - unspecified - Control and eradication programmes - official sampling							1				
Turtles - pet animals - unspecified - Survey - national survey							1				
Water buffalos - farmed - Clinical investigations											

	S. Infantis	S. Kottbus	S. Montevideo	S. Muenchen	S. Napoli	S. Newport	S. Paratyphi B	S. Poona	S. Rissen	S. Thompson	S. enterica subsp. diarizonae
Water buffalos - farmed - at farm - animal sample - Clinical investigations											
Water buffalos - farmed - at farm - animal sample - Survey - national survey											
Wild animals - Clinical investigations											
Wild animals - Control and eradication programmes - official sampling						1					
Wild animals - Survey - national survey											
Wild animals - unspecified											
Wild boars - farmed - at farm - Survey - national survey											
Wild boars - unspecified - Clinical investigations											
Wild boars - wild - unspecified - Clinical investigations										2	4
Wild boars - wild - unspecified - Control and eradication programmes - official sampling											
Wild boars - wild - unspecified - Control and eradication programmes - official sampling (animal)		1			4	2				1	
Wild boars - wild - unspecified - Survey - national survey											
Zoo animals, all - unspecified - Clinical investigations			2								1

	S. enterica subsp. enterica	S. enterica subsp. salamae
Solipeds, domestic		
Badgers - Control and eradication programmes - official sampling		
Badgers - wild - unspecified - Clinical investigations		
Badgers - wild - unspecified - Control and eradication programmes - official sampling		
Badgers - wild - unspecified - Survey - national survey		
Bison - unspecified - Clinical investigations		
Camels - unspecified - Clinical investigations		
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks		
Cats - pet animals - unspecified		
Cats - pet animals - unspecified - Clinical investigations		
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		
Cattle (bovine animals) - Clinical investigations		
Cattle (bovine animals) - adult cattle over 2 years - unspecified - Control and eradication programmes - official sampling		
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling		
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling (herd)		
Cattle (bovine animals) - at farm - animal sample - Surveillance - HACCP and own checks (herd)		
Cattle (bovine animals) - at farm - animal sample - Survey - national survey (herd)		
Cattle (bovine animals) - at retail - Control and eradication programmes - official sampling		
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		
Cattle (bovine animals) - at slaughterhouse - animal sample - Surveillance - HACCP and own checks (herd)		
Cattle (bovine animals) - at slaughterhouse - animal sample - Survey - national survey (herd)		
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations		
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks		
Cattle (bovine animals) - breeding bulls - unspecified - Clinical investigations		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations		
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations		
Cattle (bovine animals) - dairy cows - at farm - Clinical investigations		
Cattle (bovine animals) - dairy cows - at farm - Surveillance - HACCP and own checks		
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations		
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling		
Deer - farmed - roe deer - unspecified - Surveillance - HACCP and own checks		
Deer - unspecified - Clinical investigations		
Deer - unspecified - Surveillance - HACCP and own checks		
Deer - wild - fallow deer - unspecified - Clinical investigations		
Deer - wild - roe deer - unspecified - Clinical investigations		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling		
Deer - wild - unspecified - Control and eradication programmes - official sampling		
Deer - wild - unspecified - Survey - national survey		
Dogs - pet animals - Clinical investigations		
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling		
Dogs - pet animals - unspecified - Survey - national survey		
Fish - unspecified - Clinical investigations		
Fish - unspecified - Control and eradication programmes - official sampling		
Fish - unspecified - Survey - national survey		
Foxes - wild - Control and eradication programmes - official sampling	10	
Foxes - wild - unspecified - Survey - national survey		
Goats - at farm - animal sample - Clinical investigations		
Goats - at farm - animal sample - Clinical investigations (animal)		
Hares - wild - Clinical investigations		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Hares - wild - unspecified - Control and eradication programmes - official sampling	1	
Hedgehogs - wild - unspecified		
Marten - wild - unspecified - Clinical investigations		
Mice - wild - unspecified		
Minks - farmed - at retail - Clinical investigations		
Monkeys - zoo animal - Clinical investigations		
Mouflons - wild - unspecified - Clinical investigations		
Other animals - unspecified - Clinical investigations		
Other animals - unspecified - Control and eradication programmes - official sampling		
Other animals - unspecified - at farm - Surveillance - HACCP and own checks		
Other animals - unspecified - at farm - animal sample - Survey - national survey		
Pet animals, all - unspecified - Survey - national survey (dogs or cats)		
Pigs - Surveillance - HACCP and own checks		
Pigs - Survey - national survey	1	

	S. enterica subsp. enterica	S. enterica subsp. salamae
Pigs - at farm - animal sample - Clinical investigations		
Pigs - at farm - animal sample - Clinical investigations (herd)		
Pigs - at farm - animal sample - Control and eradication programmes - official sampling		
Pigs - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling		
Pigs - at farm - animal sample - Survey - national survey	2	
Pigs - at farm - environmental sample - Survey - national survey		
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		
Pigs - unspecified - Control and eradication programmes - official sampling		
Pigs - unspecified - Survey - national survey	1	
Rabbits - Clinical investigations		
Rabbits - farmed - Control and eradication programmes - official sampling		
Rabbits - farmed - Surveillance - HACCP and own checks		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Rabbits - farmed - at farm - animal sample - Survey - national survey		
Rabbits - farmed - unspecified - Clinical investigations		
Rabbits - unspecified - Survey - national survey		
Rodents - wild - unspecified		
Sheep - at farm - animal sample - Clinical investigations		
Sheep - at farm - animal sample - Clinical investigations (herd)	3	
Sheep - at farm - animal sample - Clinical investigations (holding)		
Sheep - at farm - animal sample - Survey - national survey (animal)		
Sheep - at farm - animal sample - Survey - national survey (herd)		
Sheep - unspecified - Control and eradication programmes - official sampling		
Sheep and goats - Clinical investigations		
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks		
Sheep and goats - at farm - animal sample - Survey - national survey		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Solipeds, domestic - horses - Control and eradication programmes - official sampling		
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)		
Turtles - pet animals - unspecified - Clinical investigations		
Turtles - pet animals - unspecified - Control and eradication programmes - official sampling		
Turtles - pet animals - unspecified - Survey - national survey		
Water buffalos - farmed - Clinical investigations		
Water buffalos - farmed - at farm - animal sample - Clinical investigations	1	
Water buffalos - farmed - at farm - animal sample - Survey - national survey		
Wild animals - Clinical investigations		
Wild animals - Control and eradication programmes - official sampling		
Wild animals - Survey - national survey		_
Wild animals - unspecified		
Wild boars - farmed - at farm - Survey - national survey		

	S. enterica subsp. enterica	S. enterica subsp. salamae
Wild boars - unspecified - Clinical investigations		
Wild boars - wild - unspecified - Clinical investigations		4
Wild boars - wild - unspecified - Control and eradication programmes - official sampling		
Wild boars - wild - unspecified - Control and eradication programmes - official sampling (animal)	26	
Wild boars - wild - unspecified - Survey - national survey		
Zoo animals, all - unspecified - Clinical investigations		

Comments:

¹⁾ The same sample results positive for more than one serotype.

	Number of existing flocks	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abortusovis
Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	0			0	0	0	0		0	0	
Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	0			0	0	0			0	0	
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	33939		Flock	13895	1018	1			13	95	
Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	33939		Flock	974	128	5			6	26	
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	2817		Flock	926	143	22	2		2	13	
Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	2817		Flock	77	20	7	1		1	1	
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	2817		Flock	82	12	2				4	
Gallus gallus (fowl) - unspecified - unspecified - Clinical investigations			Animal	39	1						
Geese - unspecified - Clinical investigations			Flock	9	0						
Geese - unspecified - at farm - Control and eradication programmes - official sampling			Animal	42	0						
Other poultry - at farm - animal sample - Control and eradication programmes - official sampling			Animal	39	0						

	Number of existing flocks	Source of information	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Abortusovis
Poultry, unspecified - at farm - animal sample - Clinical investigations			Animal	95	10				10		
Poultry, unspecified - at farm - animal sample - Control and eradication programmes - official sampling			Animal	175	3				3		
Poultry, unspecified - at farm - animal sample - Surveillance - HACCP and own checks			Animal	363	9				9		
Poultry, unspecified - at farm - animal sample - Survey - national survey			Animal	250	1						
Poultry, unspecified - at farm - animal sample - Survey - national survey (holding)			Holding	82	0						
Poultry, unspecified - at farm - environmental sample - Control and eradication programmes - official sampling			Animal	49	2				2		
Poultry, unspecified - at farm - environmental sample - Surveillance - HACCP and own checks			Animal	282	18				18		
Poultry, unspecified - at farm - environmental sample - Survey - national survey			Holding	25	0						
Poultry, unspecified - unspecified - Clinical investigations			Animal	54	1				1		
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling			Animal	47	1				1		
Poultry, unspecified - unspecified - Surveillance - HACCP and own checks			Animal	165	23				23		
Turkeys - breeding flocks, unspecified - Control and eradication programmes	0		Flock	0	0						

Total units Salmonella Number of Sampling unit Units tested S. Enteritidis Typhimurium S. 1,4,[5],12:i: S. Source of Other existing flocks positive for spp., information Abortusovis serovars Salmonella unspecified Turkeys - breeding flocks, unspecified - Surveillance 0 0 0 0 - HACCP and own checks Turkeys - breeding flocks, unspecified - at farm -Control and eradication programmes - industry 3841 177 47 5 Flock sampling Turkeys - breeding flocks, unspecified - at farm -Control and eradication programmes - official 3841 Flock 37 0 sampling Turkeys - fattening flocks - Control and eradication 0 0 0 0 0 0 programmes Turkeys - fattening flocks - Surveillance - HACCP 0 0 0 0 0 0 Flock and own checks Turkeys - fattening flocks - at farm - Control and 3841 340 126 8 4 3 37 Flock eradication programmes - official sampling Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry 3841 Flock 2468 438 2 133 sampling Turkeys - unspecified - at farm - animal sample -Flock 21 0 Clinical investigations

	S. Agama	S. Agona	S. Blockley	S. Braenderup	S. Bredeney	S. Derby	S. Duesseldorf	S. Emek	S. Gallinarum	S. Hadar	S. Heidelberg	
Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes			0		0					0	0	

	S. Agama	S. Agona	S. Blockley	S. Braenderup	S. Bredeney	S. Derby	S. Duesseldorf	S. Emek	S. Gallinarum	S. Hadar	S. Heidelberg
Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks			0	0	0	0		0		0	0
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling			152	1	211	4		10		39	1
Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling			3		22					10	1
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling		3		11	4					5	8
Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes		0		2	1	0				0	3
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling											
Gallus gallus (fowl) - unspecified - unspecified - Clinical investigations									1		
Geese - unspecified - Clinical investigations											
Geese - unspecified - at farm - Control and eradication programmes - official sampling											
Other poultry - at farm - animal sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - animal sample - Clinical investigations											

	S. Agama	S. Agona	S. Blockley	S. Braenderup	S. Bredeney	S. Derby	S. Duesseldorf	S. Emek	S. Gallinarum	S. Hadar	S. Heidelberg
Poultry, unspecified - at farm - animal sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - animal sample - Surveillance - HACCP and own checks											
Poultry, unspecified - at farm - animal sample - Survey - national survey											
Poultry, unspecified - at farm - animal sample - Survey - national survey (holding)											
Poultry, unspecified - at farm - environmental sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - environmental sample - Surveillance - HACCP and own checks											
Poultry, unspecified - at farm - environmental sample - Survey - national survey											
Poultry, unspecified - unspecified - Clinical investigations											
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling											
Poultry, unspecified - unspecified - Surveillance - HACCP and own checks											
Turkeys - breeding flocks, unspecified - Control and eradication programmes											
Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	0										

	S. Agama	S. Agona	S. Blockley	S. Braenderup	S. Bredeney	S. Derby	S. Duesseldorf	S. Emek	S. Gallinarum	S. Hadar	S. Heidelberg
Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	28										
Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling											
Turkeys - fattening flocks - Control and eradication programmes		0	0		0	0					
Turkeys - fattening flocks - Surveillance - HACCP and own checks			0		0	0				0	0
Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling		1			9	1					
Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling			65		132	1				7	5
Turkeys - unspecified - at farm - animal sample - Clinical investigations											
	S. Infantis	S. Isangi	S. Kentucky	S. Liverpool	S.	S. Manhattan	S. Mbandaka	S.	S. Montovidos	S. Muenchen	S. Newport

	S. Infantis	S. Isangi	S. Kentucky	S. Liverpool	S. Livingstone	S. Manhattan	S. Mbandaka	S. Meleagridis	S. Montevideo	S. Muenchen	S. Newport
Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes				0	0		0	0	0	0	
Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	0			0	0	0	0		0	0	0

	S. Infantis	S. Isangi	S. Kentucky	S. Liverpool	S. Livingstone	S. Manhattan	S. Mbandaka	S. Meleagridis	S. Montevideo	S. Muenchen	S. Newport
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	2			67	106	32	107		5	21	52
Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling				10	9		15	1	4	9	
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	8	5	8		7	1	14	2	8	7	2
Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	0	0	2		2		0	0	0	0	0
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling			4				2				
Gallus gallus (fowl) - unspecified - unspecified - Clinical investigations											
Geese - unspecified - Clinical investigations											
Geese - unspecified - at farm - Control and eradication programmes - official sampling											
Other poultry - at farm - animal sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - animal sample - Clinical investigations											
Poultry, unspecified - at farm - animal sample - Control and eradication programmes - official sampling											

	S. Infantis	S. Isangi	S. Kentucky	S. Liverpool	S. Livingstone	S. Manhattan	S. Mbandaka	S. Meleagridis	S. Montevideo	S. Muenchen	S. Newport
Poultry, unspecified - at farm - animal sample - Surveillance - HACCP and own checks											
Poultry, unspecified - at farm - animal sample - Survey - national survey							1				
Poultry, unspecified - at farm - animal sample - Survey - national survey (holding)											
Poultry, unspecified - at farm - environmental sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - environmental sample - Surveillance - HACCP and own checks											
Poultry, unspecified - at farm - environmental sample - Survey - national survey											
Poultry, unspecified - unspecified - Clinical investigations											
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling											
Poultry, unspecified - unspecified - Surveillance - HACCP and own checks											
Turkeys - breeding flocks, unspecified - Control and eradication programmes											
Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks											0
Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling											14

S. S. S. Kentucky S. Liverpool S. Infantis S. Isangi S. Manhattan S. Mbandaka S. Muenchen S. Newport Livingstone Meleagridis Montevideo Turkeys - breeding flocks, unspecified - at farm -Control and eradication programmes - official sampling Turkeys - fattening flocks - Control and eradication 0 programmes Turkeys - fattening flocks - Surveillance - HACCP 0 and own checks Turkeys - fattening flocks - at farm - Control and 41 eradication programmes - official sampling Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry 30 sampling Turkeys - unspecified - at farm - animal sample -Clinical investigations

	S. Norwich	S. Reading	S. Rissen	S. Saintpaul	S. Schwarzengr und	S. Tallahassee	S. Thompson	S. Virchow	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes							0	0			0
Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks			0	0			0	0			0
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling			1	4			84	1			9

	S. Norwich	S. Reading	S. Rissen	S. Saintpaul	S. Schwarzengr und	S. Tallahassee	S. Thompson	S. Virchow	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling							5	2			
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling			4				4	2			1
Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes			0				0	0	0	0	0
Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling											
Gallus gallus (fowl) - unspecified - unspecified - Clinical investigations											
Geese - unspecified - Clinical investigations											
Geese - unspecified - at farm - Control and eradication programmes - official sampling											
Other poultry - at farm - animal sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - animal sample - Clinical investigations											
Poultry, unspecified - at farm - animal sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - animal sample - Surveillance - HACCP and own checks											

	S. Norwich	S. Reading	S. Rissen	S. Saintpaul	S. Schwarzengr und	S. Tallahassee	S. Thompson	S. Virchow	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Poultry, unspecified - at farm - animal sample - Survey - national survey											
Poultry, unspecified - at farm - animal sample - Survey - national survey (holding)											
Poultry, unspecified - at farm - environmental sample - Control and eradication programmes - official sampling											
Poultry, unspecified - at farm - environmental sample - Surveillance - HACCP and own checks											
Poultry, unspecified - at farm - environmental sample - Survey - national survey											
Poultry, unspecified - unspecified - Clinical investigations											
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling											
Poultry, unspecified - unspecified - Surveillance - HACCP and own checks											
Turkeys - breeding flocks, unspecified - Control and eradication programmes											
Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks											
Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry											

sampling

	S. Norwich	S. Reading	S. Rissen	S. Saintpaul	S. Schwarzengr und	S. Tallahassee	S. Thompson	S. Virchow	S. enterica subsp. arizonae	S. enterica subsp. diarizonae	S. enterica subsp. enterica
Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling											
Turkeys - fattening flocks - Control and eradication programmes				0	0		0				0
Turkeys - fattening flocks - Surveillance - HACCP and own checks				0							0
Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling				17			1				4
Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling				58							1
Turkeys - unspecified - at farm - animal sample - Clinical investigations											

Comments:

- 1) ADULT-Objective sampling
- ²⁾ ADULT-Suspect sampling
- ³⁾ 0

Footnote:

No information available for Laying hens on Results from all samples taken under the testing programme (both by food business operators and competent authorities) and Results from the census sampling performed by the food business operators.

The number 2817 is the total number of layin hens existing flocks. It does not refer to a specific category or age.

The number 33939 is the total number of broilers existing flocks. It does not refer to a specific category or age.

Table Salmonella in other poultry The following amendments were made:

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - fattening flocks - Control and eradication programmes	S. Saintpaul	17	0
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Newport		41
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Other serovars		37
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Agona		1
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Thompson		1
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Number of existing flocks		3841
	Turkeys - fattening flocks - Control and eradication programmes	S. Schwarzengrund	27	0
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. enterica subsp. enterica		4
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. 1,4,[5],12:i:-		4
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Units tested		340
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Typhimurium		8

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - fattening flocks - Control and eradication programmes	S. Thompson	1	0
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Saintpaul		17
	Turkeys - fattening flocks - Control and eradication programmes	S. Blockley	6	0
	Turkeys - fattening flocks - Control and eradication programmes	S. Derby	1	0
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Bredeney		9
	Turkeys - fattening flocks - Control and eradication programmes	S. Newport	41	0
	Turkeys - fattening flocks - Control and eradication programmes	S. enterica subsp. enterica	4	0
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	S. Derby		1
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		3
	Turkeys - fattening flocks - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		126
	Turkeys - fattening flocks - Control and eradication programmes	S. Bredeney	9	0
	Turkeys - fattening flocks - Control and eradication programmes	S. 1,4,[5],12:i:-	4	0
	Turkeys - fattening flocks - Control and eradication programmes	Number of existing flocks	3841	0
	Turkeys - fattening flocks - Control and eradication programmes	Other serovars	4	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - fattening flocks - Control and eradication programmes	S. Agona	1	0
	Turkeys - fattening flocks - Control and eradication programmes	S. Typhimurium	8	0
	Turkeys - fattening flocks - Control and eradication programmes	Units tested	347	0
	Turkeys - fattening flocks - Control and eradication programmes	Sampling unit	Flock	
	Turkeys - fattening flocks - Control and eradication programmes	Total units positive for Salmonella	123	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Other serovars		133
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Heidelberg		5
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. enterica subsp. enterica	1	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Bredeney		132
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Blockley		65
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. enterica subsp. enterica		1
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Hadar		7

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Salmonella spp., unspecified		2
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Saintpaul		58
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Derby		1
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Newport		30
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Saintpaul	58	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Newport	30	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Bredeney	132	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Typhimurium	4	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	Total units positive for Salmonella	439	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Blockley	65	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Units tested		2468
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Sampling unit		Flock

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Hadar	7	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	Units tested	2670	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Total units positive for Salmonella		438
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	Number of existing flocks	3841	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	Number of existing flocks		3841
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	Salmonella spp., unspecified	3	0
	Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Typhimurium		4
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	Other serovars	133	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Heidelberg	5	0
	Turkeys - fattening flocks - Surveillance - HACCP and own checks	S. Derby	1	0
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	Salmonella spp., unspecified		5
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	Units tested		177
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	S. Agama		28

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	Total units positive for Salmonella		47
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	Sampling unit		Flock
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	Number of existing flocks		3841
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - industry sampling	S. Newport		14
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	Units tested	177	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	Salmonella spp., unspecified	5	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	S. Newport	14	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	S. Agama	28	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	Total units positive for Salmonella	47	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	Number of existing flocks	3841	0
	Turkeys - breeding flocks, unspecified - Surveillance - HACCP and own checks	Sampling unit	Flock	
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		0
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Number of existing flocks		3841

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Turkeys - breeding flocks, unspecified - at farm - Control and eradication programmes - official sampling	Units tested		37
	Turkeys - breeding flocks, unspecified - Control and eradication programmes	Number of existing flocks	3841	0
	Turkeys - breeding flocks, unspecified - Control and eradication programmes	Units tested	37	0
	Turkeys - breeding flocks, unspecified - Control and eradication programmes	Comment	Official sampling	0
	Turkeys - breeding flocks, unspecified - Control and eradication programmes	Comment		Official sampling
	Turkeys - breeding flocks, unspecified - Control and eradication programmes	Units tested	36	37
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Meleagridis	1	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		6
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Montevideo	4	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. enterica subsp. enterica	6	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Virchow	2	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Other serovars		26
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Muenchen		9
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Virchow		2

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Meleagridis		1
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Thompson		5
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Muenchen	9	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Montevideo		4
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Thompson	5	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Heidelberg	1	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Blockley	3	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Other serovars	20	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Mbandaka	15	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Livingstone		9
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Livingstone	9	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Hadar	10	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Enteritidis	6	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Bredeney		22
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Sampling unit	Flock	
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Total units positive for Salmonella	138	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Salmonella spp., unspecified	14	0
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Number of existing flocks	33939	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Number of existing flocks		33939
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Liverpool		10
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Units tested		974
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Heidelberg		1
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Liverpool	10	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		128
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Bredeney	22	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Enteritidis		5
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Hadar		10

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	Units tested	949	0
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Mbandaka		15
	Gallus gallus (fowl) - broilers - unspecified - at farm - Control and eradication programmes - official sampling	S. Blockley		3
	Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes	S. Typhimurium	1	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Infantis	2	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Sampling unit		Flock
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Saintpaul	4	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Montevideo	5	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Other serovars		95
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Muenchen		21
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Blockley	152	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Livingstone	106	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Saintpaul		4

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Salmonella spp., unspecified		13
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Derby		4
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Emek		10
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Virchow		1
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Heidelberg		1
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Bredeney		211
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Liverpool		67
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Bredeney	211	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. enterica subsp. enterica		9
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Braenderup		1

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Hadar	39	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Livingstone		106
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Enteritidis	1	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Sampling unit	Flock	
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Number of existing flocks		33939
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Number of existing flocks	33939	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Total units positive for Salmonella		1018
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Virchow	1	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Manhattan		32
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Emek	10	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Heidelberg	1	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Muenchen	21	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Thompson		84

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Rissen		1
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Rissen	1	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Newport		52
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Units tested	14013	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Mbandaka	107	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Thompson	84	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Enteritidis		1
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Derby	4	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Mbandaka		107
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Salmonella spp., unspecified	13	0
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Liverpool	67	0
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Infantis		2

Date of Modification	Row name	Column name	Old value	New value	
2011-12-15	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Montevideo		5	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Manhattan	32	0	
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Blockley		152	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Newport	52	0	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. Braenderup	1	0	
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	S. Hadar		39	
	Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes - industry sampling	Units tested		13895	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Total units positive for Salmonella	1018	0	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	Other serovars	95	0	
	Gallus gallus (fowl) - broilers - at farm - Surveillance - HACCP and own checks	S. enterica subsp. enterica	9	0	
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	Number of existing flocks		2817	
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Comment	Objective sampling	ADULT-Objective sampling	
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock	

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	S. Enteritidis		2
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	S. Mbandaka		2
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	Other serovars		4
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	Units tested		82
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	Total units positive for Salmonella		12
	Gallus gallus (fowl) - laying hens - during rearing period - at farm - Control and eradication programmes - official sampling	S. Kentucky		4
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Bredeney	0	1
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Braenderup	0	2
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Total units positive for Salmonella	0	20
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Heidelberg	0	3
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Units tested	0	77
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Livingstone	0	2
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Salmonella spp., unspecified	0	1
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Comment	0	ADULT-Suspect sampling

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Number of existing flocks	0	2817
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Sampling unit		Flock
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Kentucky	0	2
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Typhimurium	0	1
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Enteritidis	0	7
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Other serovars	0	1
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Heidelberg		8
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Number of existing flocks	2817	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. enterica subsp. arizonae	2	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Hadar	5	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Other serovars	18	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Meleagridis	2	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Heidelberg	12	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Virchow	2	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Typhimurium	3	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Rissen	4	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Other serovars		13
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Livingstone		7
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Kentucky		8
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Bredeney	5	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Salmonella spp., unspecified		2
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Thompson	4	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Muenchen	7	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Mbandaka		14
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Agona	3	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Livingstone	20	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Mbandaka	22	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Kentucky	14	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Isangi	5	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Enteritidis	39	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Newport	2	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Hadar		5
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. enterica subsp. enterica	1	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Total units positive for Salmonella	186	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Derby	2	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Salmonella spp., unspecified	7	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Isangi		5
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Units tested	1206	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Sampling unit	Flock	
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Meleagridis		2
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Manhattan		1
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Infantis	8	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. enterica subsp. diarizonae	2	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Infantis		8
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Montevideo	14	0
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	S. Braenderup	13	0
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Muenchen		7
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Comment		Objective sampling
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	d eradication programmes -		143
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Rissen		4
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Newport		2
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Enteritidis		22
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Thompson		4
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Braenderup		11
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Number of existing flocks		2817
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Typhimurium		2

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Virchow		2
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Units tested		926
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Bredeney		4
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Agona	3	
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. Montevideo		8
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	S. enterica subsp. enterica		1
	Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes - official sampling	Sampling unit		Flock
	Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes	Comment	Same samples results positive to more than one serotypes	0
		Footnote	No information available for Laying hens on Results from all samples taken under the testing programme (both by food business operators and competent authorities) and Results from the census sampling performed by the food business operators. The number 2817 is the total number of existing flocks. It does not refer to a specific category or age.	No information available for Laying hens on Results from all samples taken under the testing programme (both by food business operators and competent authorities) and Results from the census sampling performed by the food business operators. The number 2817 is the total number of layin hens existing flocks. It does not refer to a specific category or age.
				The number 33939 is the total number of broilers existing flocks. It does not refer to a specific category or age.

Date of Modification	Row name	Column name	New value	
2011-12-15		Footnote	No information available for Laying hens on Results from all samples taken under the testing programme (both by food business operators and competent authorities) and Results from the census sampling performed by the food business operators.	No information available for Laying hens on Results from all samples taken under the testing programme (both by food business operators and competent authorities) and Results from the census sampling performed by the food business operators. The number 2817 is the total number of existing flocks. It does not refer to a specific category or age.

2.1.4 Salmonella in feedingstuffs

Table Salmonella in compound feedingstuffs

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Complementary feedingstuffs - Control and eradication programmes - official sampling		Single		47	0				
Complementary feedingstuffs - Control and eradication programmes - official sampling (BATCH-FOR CATTLE)		Batch		10	0				
Complementary feedingstuffs - Control and eradication programmes - official sampling (FOR CATTLE)		Single		30	0				
Complementary feedingstuffs - Control and eradication programmes - official sampling (SINGLE)		Single		54	0				
Complementary feedingstuffs - at farm - environmental sample - Control and eradication programmes - official sampling (FOR CATTLE)		Single		22	0				
Complementary feedingstuffs - at farm - feed sample - Control and eradication programmes - official sampling (DAIRY COWS)		Single		35	1				1
Complementary feedingstuffs - at farm - feed sample - Control and eradication programmes - official sampling (FOR CATTLE)		Single		24	0				
Complementary feedingstuffs - at farm - feed sample - Control and eradication programmes - official sampling - suspect sampling		Single		11	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Complementary feedingstuffs - at feed mill - Control and eradication programmes - official sampling		Batch		57	0				
Complementary feedingstuffs - unspecified - Control and eradication programmes - official sampling (FOR PIGS)		Single		39	0				
Compound feedingstuffs for horses - Control and eradication programmes - official sampling		Single		27	1				1
Compound feedingstuffs for pigs - Control and eradication programmes - official sampling		Single		12	0				
Compound feedingstuffs for poultry (non specified) - Clinical investigations		Single		31	0				
Compound feedingstuffs, not specified - Clinical investigations		Single		27	0				
Compound feedingstuffs, not specified - Control and eradication programmes - official sampling		Single		14	0				
Compound feedingstuffs, not specified - Control and eradication programmes - official sampling (BATCH)		Batch		18	0				
Compound feedingstuffs, not specified - at farm - feed sample - Control and eradication programmes - official sampling		Batch		165	1			1	
Compound feedingstuffs, not specified - at farm - feed sample - Control and eradication programmes - official sampling (single)		Single		71	0				

Total units S. Salmonella Source of Sampling unit Sample Other Units tested positive for S. Enteritidis Typhimurium spp., information weight serovars unspecified Salmonella Compound feedingstuffs, not specified - at feed mill -Control and eradication programmes - official Single 21 0 sampling Compound feedingstuffs, not specified - at processing plant - Control and eradication Single 16 0 programmes - official sampling Compound feedingstuffs, not specified - unspecified - Control and eradication programmes - official Single 54 0 sampling Compound feedingstuffs, not specified - unspecified - Control and eradication programmes - official Single 16 1 1 sampling - suspect sampling Feed material of cereal grain origin - Clinical 10 0 Single investigations Feed material of cereal grain origin - Control and Single 27 0 eradication programmes - official sampling Feed material of cereal grain origin - Control and eradication programmes - official sampling (batch) Batch 9 0 Feed material of cereal grain origin - Control and eradication programmes - official sampling -12 0 Batch objective sampling Feed material of cereal grain origin - Control and eradication programmes - official sampling -22 0 Single

objective sampling (single)

Total units S. Salmonella Source of Sampling unit Sample Other Units tested positive for S. Enteritidis Typhimurium spp., information weight serovars Salmonella unspecified Feed material of cereal grain origin - at farm - feed sample - Control and eradication programmes -Single 18 0 official sampling Other feed material Single 42 0 Other feed material (BATCH) Batch 13 0 Other feed material - Control and eradication 9 0 Single programmes (MEDICAL FEED) Other feed material - Control and eradication programmes - official sampling (COMPLETE Single 53 1 FEEDINGSTUFFS FOR PIGS) Other feed material - Control and eradication programmes - official sampling (COMPLETE 38 0 Single FEEDINGSTUFFS) Other feed material - Control and eradication 8 0 programmes - official sampling (FEEDINGSTUFFS) Batch Other feed material - Control and eradication programmes - official sampling (MEDICAL Single 3 1 FEEDINGSTUFFS FOR TURKEY) Other feed material - Control and eradication programmes - official sampling - objective sampling Batch 12 0 (COMPLETE FEEDINGSTIFFS-LAYING HENS) Other feed material - Control and eradication programmes - official sampling - objective sampling 7 Batch 0 (COMPLETE FEEDINGSTUFFS FOR BROILER)

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Other feed material - Control and eradication programmes - official sampling - objective sampling (COMPLETE FEEDINGSTUFFS FOR POULTRY)		Single		60	5			1	4
Other feed material - Control and eradication programmes - official sampling - objective sampling (COMPLETE FEEDINGSTUFFS)		Single		92	1				1
Other feed material - Control and eradication programmes - official sampling - objective sampling (batch-complete feedingstuffs)		Batch		28	0				
Other feed material - at farm - feed sample - Control and eradication programmes - official sampling - objective sampling (COMPLETE FEEDINGSTUFFS)		Batch		79	0				
Other feed material - at farm - feed sample - Control and eradication programmes - official sampling - objective sampling (COMPLETE FEEDINGSTUFFS-SINGLE)		Single		13	1			1	
Other feed material - at feed mill - Control and eradication programmes - official sampling (COMPLETE FEEDINGSTUFFS FOR PIGS)		Single		15	0				
Other feed material - at feed mill - Control and eradication programmes - official sampling (FEEDINGSTUFFS)		Batch		25	0				
Other feed material - at feed mill - Control and eradication programmes - official sampling - objective sampling (COMPLETE FEEDINGSTIFFS FOR PIGS)		Batch		12	1				1

Total units S. Salmonella Source of Sampling unit Sample Other Units tested positive for S. Enteritidis Typhimurium spp., information weight serovars Salmonella unspecified Other feed material - at feed mill - Control and eradication programmes - official sampling -Batch 12 0 objective sampling (COMPLETE FEEDINGSTUFFS FOR CATTLE) Other feed material - at feed mill - Control and eradication programmes - official sampling -13 0 Single objective sampling (COMPLETE FEEDINGSTUFFS) Other feed material - at feed mill - Control and eradication programmes - official sampling -Sinale 10 1 objective sampling (COMPLETE FEEDINGSTUFFS-SINGLE) Other feed material - at feed mill - Surveillance -HACCP and own checks (COMPLETE 1810 0 Single FEEDINGSTUFFS) Other feed material - at feed mill - Survey - national Batch 12 0 survey (COMPLETE FEEDINGSTUFFS) Other feed material - at processing plant - Control and eradication programmes - official sampling 225 26 26 Batch (Feedstuff) Other feed material - drinking water - Control and eradication programmes - official sampling (FOR Single 8 2 1 1 CATTLE) Other feed material - drinking water - Control and eradication programmes - official sampling (FOR 10 0 Single POULTRY) Pet food - Control and eradication programmes -Batch 11 0 official sampling

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Pet food - Control and eradication programmes - official sampling (single)		Single		35	0				
Pet food - Control and eradication programmes - official sampling - objective sampling		Single		12	0				
Pet food - at feed mill - Control and eradication programmes - official sampling - objective sampling		Single	50gr	29	0				
Pet food - at processing plant - Control and eradication programmes - official sampling - objective sampling		Single	50gr	11	0				

Table Salmonella in feed material of animal origin

S. Total units Salmonella Source of Sampling unit Sample Other Units tested positive for S. Enteritidis Typhimurium spp., information weight serovars unspecified Salmonella Feed material of land animal origin - Control and 302 5 Single 5 eradication programmes - official sampling Feed material of marine animal origin - Control and Single 4 1 eradication programmes - official sampling Other feed material - Control and eradication 8 0 Single programmes - official sampling Other feed material - at feed mill - Control and Single 50gr 15 1 eradication programmes - official sampling Other feed material - at processing plant - Control and eradication programmes - official sampling Single 50gr 10 0

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Other feed material - Clinical investigations (FEED MATERIAL)		Single		14	0				
Other feed material - Control and eradication programmes - official sampling		Single		96	5			1	4
Other feed material - Control and eradication programmes - official sampling (BATCH FEED MATERIAL)		Batch		53	1				1
Other feed material - Control and eradication programmes - official sampling (FEED MATERIAL FOR CATTLE)		Batch		12	0				
Other feed material - Control and eradication programmes - official sampling (FEED MATERIAL FOR CATTLE-SINGLE)		Single		51	1				1
Other feed material - Control and eradication programmes - official sampling (FEED MATERIAL FOR PIGS)		Single		35	3				3
Other feed material - Control and eradication programmes - official sampling (FEED MATERIAL)		Single		291	27			12	15
Other feed material - at farm - feed sample - Control and eradication programmes - official sampling		Single		25	0				
Other feed material - at farm - feed sample - Control and eradication programmes - official sampling (FEED MATERIAL FOR CATTLE)		Single		36	0				

Table Salmonella in other feed matter

Total units S. Salmonella Source of Sampling unit Sample Other Units tested positive for S. Enteritidis Typhimurium spp., information weight serovars unspecified Salmonella Other feed material - at farm - feed sample - Control and eradication programmes - official sampling -Single 10 0 suspect sampling (FEED MATERIAL) Other feed material - at feed mill - Control and Single 23 2 2 eradication programmes - official sampling (FEED MATERIAL) Other feed material - at processing plant - Control and eradication programmes - official sampling Single 21 2 1 1 Other feed material - forages and roughages -Control and eradication programmes - official 50ar 5 0 Sinale sampling Other feed material - legume seeds and similar products - Control and eradication programmes -28 3 3 Single official sampling Other feed material - legume seeds and similar products - Control and eradication programmes -8 0 Batch official sampling (BATCH) Other feed material - legume seeds and similar products - at farm - feed sample - Control and Single 21 1 eradication programmes - official sampling Other feed material - legume seeds and similar products - at feed mill - Control and eradication Single 23 4 programmes - official sampling Other feed material - tubers, roots and similar products - Control and eradication programmes -Single 7 0

official sampling

Table Salmonella in other feed matter

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified	Other serovars
Pet food - Control and eradication programmes - official sampling (FEED MATERIAL)		Single		12	0				
Premixtures - Control and eradication programmes - official sampling		Single		10	0				

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.

Serovar		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	lus (fowl)		Other poultry Control program
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory			125				421				860		
Number of isolates serotyped	0	0	125	0	0	0	421	0	0	0	860	0	0
Number of isolates per serovar													
Other serovars			46				66				182		
S. Bredeney			1				2				30		
S. Choleraesuis			1				50						
S. Derby							36				3		
S. Enteritidis											110		
S. Gallinarum											67		

Serovar		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	llus (fowl)		Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory			125				421				860		program
Number of isolates serotyped	0	0	125	0	0	0	421	0	0	0	860	0	0
Number of isolates per serovar													
S. Hadar							1				38		
S. Heidelberg											32		
S. Kentucky							1				46		
S. Livingstone							3				101		
S. London							29				1		0
S. Mbandaka											60		
S. Montevideo											30		
S. Muenchen			1				3				39		
S. Newport			1								4		
S. Rissen			1				24				12		
S. Thompson			5								24		

Serovar		Cattle (bovir	ne animals)			Piç	js			Gallus gal	lus (fowl)		Other poultry	
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Italy
Number of isolates in the laboratory			125				421				860			1
Number of isolates serotyped	0	0	125	0	0	0	421	0	0	0	860	0	0	2010 F
Number of isolates per serovar														eport
S. Typhimurium			43				53				39			Report on trends and sources
S. enterica subsp. diarizonae			5											nds and
S. enterica subsp. enterica			1				2				26			sourc
S. enterica subsp. houtenae			5								1			으
S. group B, monophasic strain			15				151				15			zoonoses

Serovar		Other poultry			Duo	ks			Guinea	a fowl		Other a	animals
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						5				10			
Number of isolates serotyped	0	0	0	0	0	5	0	0	0	10	0	0	0
Number of isolates per serovar													
Other serovars						2				8			

Serovar		Other poultry			Duc	ks			Guinea	a fowl		Other a	animals
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						5				10			
Number of isolates serotyped	0	0	0	0	0	5	0	0	0	10	0	0	0
Number of isolates per serovar													-
S. Bredeney													
S. Choleraesuis													0
S. Derby													
S. Enteritidis													
S. Gallinarum													
S. Hadar													
S. Heidelberg													
S. Kentucky													
S. Livingstone													
S. London													
S. Mbandaka						1				2			

Serovar		Other poultry			Duc	ks			Guinea	a fowl		Other a	animals	
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	1
Number of isolates in the laboratory						5				10				11y - 2
Number of isolates serotyped	0	0	0	0	0	5	0	0	0	10	0	0	0	
Number of isolates per serovar														eport
S. Montevideo														on trei
S. Muenchen														italy - 2010 Report on trends and sources of zoonoses
S. Newport														Sourc
S. Rissen														es or z
S. Thompson														oonose
S. Typhimurium						2								ď
S. enterica subsp. diarizonae														
S. enterica subsp. enterica														
S. enterica subsp. houtenae														
S. group B, monophasic strain														

Serovar	Other a	animals		Pige	ons			Qua	ails			Rabbits	
Sources of isolates	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Number of isolates in the laboratory	240				28				6				3
Number of isolates serotyped	240	0	0	0	28	0	0	0	2	0	0	0	3
Number of isolates per serovar													
Other serovars	72				2				1				1
S. Bredeney	1												1
S. Choleraesuis													
S. Derby	2												9
S. Enteritidis	5												
S. Gallinarum	1												(
S. Hadar	8												
S. Heidelberg	2												
S. Kentucky	2												
S. Livingstone	5												
S. London	1								1				

Serovar	Other a	animals		Pige	ons			Qua	ails			Rabbits	
Sources of isolates	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Number of isolates in the laboratory	240				28				6				3
Number of isolates serotyped	240	0	0	0	28	0	0	0	2	0	0	0	3
Number of isolates per serovar													1
S. Mbandaka	3												
S. Montevideo	9												3
S. Muenchen	8												, ,
S. Newport	4												<u>.</u>
S. Rissen	4												
S. Thompson	3												
S. Typhimurium	68				26								2
S. enterica subsp. diarizonae	12												
S. enterica subsp. enterica	3												
S. enterica subsp. houtenae	11												
S. group B, monophasic strain	16												

Serovar	Rabbits		Sheep ar	nd goats			Shell	lfish			Solipeds, dom	estic - horses	
Sources of isolates	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory				34				5				11	
Number of isolates serotyped	0	0	0	34	0	0	0	5	0	0	0	11	0
Number of isolates per serovar													-
Other serovars				17				4				6	
S. Bredeney													
S. Choleraesuis													0
S. Derby													
S. Enteritidis													
S. Gallinarum													
S. Hadar													
S. Heidelberg													
S. Kentucky													
S. Livingstone													
S. London													

Serovar	Rabbits		Sheep ar	nd goats			Shell	fish			Solipeds, dom	estic - horses	
Sources of isolates	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory				34				5				11	
Number of isolates serotyped	0	0	0	34	0	0	0	5	0	0	0	11	0
Number of isolates per serovar													-
S. Mbandaka													
S. Montevideo													0
S. Muenchen													
S. Newport								1					
S. Rissen													
S. Thompson				1								1	
S. Typhimurium				3								1	
S. enterica subsp. diarizonae				12								2	
S. enterica subsp. enterica													
S. enterica subsp. houtenae													
S. group B, monophasic strain				1								1	

Serovar		Turk	eys			Turtles - pe	et animals		Water buffalos				
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	
Number of isolates in the laboratory			131				117				27		program
Number of isolates serotyped	0	0	131	0	0	0	117	0	0	0	27	0	0
Number of isolates per serovar													
Other serovars			55				54				13		
S. Bredeney			11										
S. Choleraesuis													
S. Derby											5		
S. Enteritidis			6										0
S. Gallinarum			1										
S. Hadar			2										
S. Heidelberg			1										
S. Kentucky							1						
S. Livingstone			1										
S. London													

Serovar		Turk	eys			Turtles - pe	et animals			Water b	uffalos		Wild boars
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	
Number of isolates in the laboratory			131				117				27		program
Number of isolates serotyped	0	0	131	0	0	0	117	0	0	0	27	0	0
Number of isolates per serovar													7
S. Mbandaka													
S. Montevideo													9
S. Muenchen							16				1		3
S. Newport			44				3				1		
S. Rissen													0
S. Thompson							1						8
S. Typhimurium			2				1				5		
S. enterica subsp. diarizonae							34				1		
S. enterica subsp. enterica			3				1						
S. enterica subsp. houtenae							6						
S. group B, monophasic strain			5								1		

Serovar		Wild boars	
Sources of isolates	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory		82	
Number of isolates serotyped	0	82	0
Number of isolates per serovar			
Other serovars		29	
S. Bredeney			
S. Choleraesuis		4	
S. Derby			
S. Enteritidis		2	
S. Gallinarum			
S. Hadar			
S. Heidelberg			
S. Kentucky			
S. Livingstone			
S. London		1	

Serovar		Wild boars	
Sources of isolates	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory		82	
Number of isolates serotyped	0	82	0
Number of isolates per serovar			
S. Mbandaka		1	
S. Montevideo			
S. Muenchen			
S. Newport		3	
S. Rissen			
S. Thompson		2	
S. Typhimurium		6	
S. enterica subsp. diarizonae		17	
S. enterica subsp. enterica			
S. enterica subsp. houtenae		10	
S. group B, monophasic strain		7	

Table Salmonella serovars in food

Serovar	Meat froi anir		Meat fr	om pig	Meat fror (Gallus	n broilers gallus)	Meat from other poultry species Other products of animal origin Meat from horse		Other products of animal origin		Meat from horse		Meat from other animal species or not specified	Italy - 20
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance		2010 Re
Number of isolates in the laboratory		69		465		270		1				2		Report
Number of isolates serotyped	0	69	0	465	0	268	0	1	0	0	0	2	0	on trends
Number of isolates per serovar														
Other serovars		15		99		53								and sources
S. Bredeney		1		1		35								ces of
S. Derby		2		88		4								of zoonoses
S. Enteritidis		11		2		31								ses
S. Hadar						24								
S. Infantis				11		14								
S. London		1		13		3								
S. Mbandaka		1												
S. Montevideo				4		38								

Table Salmonella serovars in food

Serovar	Meat from bovine animals		I Mast from no		om pig	Meat from broilers (Gallus gallus)		Meat from other poultry species		Other products of animal origin		Meat from horse		Meat from other animal species or not specified
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	
Number of isolates in the laboratory		69		465		270		1				2		
Number of isolates serotyped	0	69	0	465	0	268	0	1	0	0	0	2	0	
Number of isolates per serovar														
S. Muenchen				2		44								
S. Newport		1		3		2								
S. Rissen		20		32									0	
S. Saintpaul				1										
S. Typhimurium		11		72		11		1				2		
S. enterica subsp. enterica		1		12		2								
S. group B, monophasic strain		5		125		7								

Table Salmonella serovars in food

Serovar	Meat from other animal species or not specified	Meat fro	m rabbit	Meat fro	m sheep	Meat fro	m turkey	Meat, mi	xed meat	from bovi goats, she donkeys,	Meat, red meat (meat from bovines, pigs, goats, sheep, horses, donkeys, bison and water buffalos)		n shellfish
Sources of isolates	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Number of isolates in the laboratory	549		3		7		163		12		5		52
Number of isolates serotyped	549	0	3	0	7	0	163	0	12	0	5	0	52
Number of isolates per serovar													
Other serovars	187				4		13		3		3		52 52 52 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
S. Bredeney	12						7						5
S. Derby	38								2				6
S. Enteritidis	15												3
S. Hadar	12						4						3
S. Infantis	8				1								1
S. London	15								2				1
S. Mbandaka	37												
S. Montevideo	81												
S. Muenchen	15						3				1		1

Table Salmonella serovars in food

Serovar	Meat from other animal species or not specified	Meat fro	m rabbit	Meat fro	m sheep	Meat fro	m turkey	Meat, mi	xed meat	from bovi goats, she donkeys,	meat (meat ines, pigs, ep, horses, bison and ouffalos)	Mollusca	n shellfish
Sources of isolates	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Number of isolates in the laboratory	549		3		7		163		12		5		
Number of isolates serotyped	549	0	3	0	7	0	163	0	12	0	5	0	52
Number of isolates per serovar													52
S. Newport	9						89						
S. Rissen	19												2
S. Saintpaul	5						25						
S. Typhimurium	33		3		1		14		2		1		8
S. enterica subsp. enterica	10				1		2		1				
S. group B, monophasic strain	53						6		2				4

Phagetype		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	llus (fowl)		Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory											110		
Number of isolates phagetyped	0	0	0	0	0	0	0	0	0	0	110	0	0
Number of isolates per phagetype													
Not typeable											46		0
PT 1											12		
PT 14b											1		
PT 1b													
PT 2											4		
PT 21											5		
PT 3											2		
PT 3a											5		
PT 4											19		
PT 55													
PT 6											1		

Phagetype		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	lus (fowl)		Other poultry	
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Italy
Number of isolates in the laboratory											110			1
Number of isolates phagetyped	0	0	0	0	0	0	0	0	0	0	110	0	0	2010 R
Number of isolates per phagetype														eport
PT 6b											1			Report on trends
PT 6c											3			
PT 8											10			and sources
RDNC											1			es of zo

Phagetype		Other poultry			Other a	nimals			Turk	eys		Wild	boars
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						4				6			
Number of isolates phagetyped	0	0	0	0	0	3	0	0	0	6	0	0	0
Number of isolates per phagetype													
Not typeable						2							
PT 1						1							

Phagetype		Other poultry			Other a	nimals			Turk	eys		Wild	ooars
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						4				6			
Number of isolates phagetyped	0	0	0	0	0	3	0	0	0	6	0	0	0
Number of isolates per phagetype													-
PT 14b													
PT 1b													0
PT 2													
PT 21													
PT 3													
PT 3a													
PT 4													
PT 55										6			
PT 6													
PT 6b													
PT 6c													

Phagetype		Other poultry			Other a	nimals			Turk	eys		Wild	boars
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						4				6			
Number of isolates phagetyped	0	0	0	0	0	3	0	0	0	6	0	0	0
Number of isolates per phagetype													
PT 8													
RDNC													
Phagetype	Wild	boars											
Sources of isolates	Clinical	Surveillance											
Number of isolates in the laboratory	2												
Number of isolates phagetyped			1										

Phagetype	Wild I	ooars
Sources of isolates	Clinical	Surveillance
Number of isolates in the laboratory	2	
Number of isolates phagetyped	2	0
Number of isolates per phagetype		
Not typeable	1	
PT 1		
PT 14b		
PT 1b	1	

Phagetype	Wild I	ooars
Sources of isolates	Clinical	Surveillance
Number of isolates in the laboratory	2	
Number of isolates phagetyped	2	0
Number of isolates per phagetype		
PT 2		
PT 21		
PT 3		
PT 3a		
PT 4		
PT 55		
PT 6		
PT 6b		
PT 6c		
PT 8		
RDNC		

Table Salmonella Enteritidis phagetypes in food

Phagetype	Meat fror anin		Meat fr	om pig	Meat fror (Gallus	n broilers gallus)		other poultry cies		oducts of I origin		other animal not specified	Molluscan shellfish
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	
Number of isolates in the laboratory		11		2		31						15	010
Number of isolates phagetyped	0	11	0	2	0	31	0	0	0	0	0	15	o (épon
Number of isolates per phagetype													o n trenas
Not typeable		3		1		15						5	inds and
PT 1		8											nd sources
PT 21				1									의
PT 3						1							zoonoses
PT 6						14						9	S O O
PT 6c													
PT 7												1	
PT 8						1							

Table Salmonella Enteritidis phagetypes in food

Phagetype	Molluscan shellfish
Sources of isolates	Surveillance
Number of isolates in the laboratory	3
Number of isolates phagetyped	3
Number of isolates per phagetype	
Not typeable	1
PT 1	
PT 21	
PT 3	
PT 6	
PT 6c	2
PT 7	
PT 8	

Phagetype		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	llus (fowl)		Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory			43				53				39		
Number of isolates phagetyped	0	0	43	0	0	0	53	0	0	0	39	0	0
Number of isolates per phagetype													
DT 1											5		
DT 104			23								4		0
DT 12			1										
DT 120			3				5				2		
DT 15													
DT 19													
DT 193							4				2		
DT 2							1				1		
DT 20a			1				1						
DT 22											1		
DT 3													

Phagetype		Cattle (bovir	ne animals)			Piç	gs			Gallus gal	lus (fowl)		Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory			43				53				39		
Number of isolates phagetyped	0	0	43	0	0	0	53	0	0	0	39	0	0
Number of isolates per phagetype													
DT 30							4				1		
DT 41													0
DT 7			1				2						
DT 8													
DT 80													
DT 99											1		
Not typeable			7				29				18		
Other			3										
RDNC			2				2				1		
U 302			1				1				2		
U 311			1				4				1		

Phagetype	Other poultry			Duc	ks			Other a	nimals		Pige	eons	
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						2				68			
Number of isolates phagetyped	0	0	0	0	0	2	0	0	0	68	0	0	0
Number of isolates per phagetype													
DT 1										2			
DT 104										5			0
DT 12										1			
DT 120										6			
DT 15										1			
DT 19										1			
DT 193										4			
DT 2										1			
DT 20a													
DT 22													
DT 3													

Phagetype		Other poultry			Duc	ks			Other a	nimals		Pige	eons
Sources of isolates	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring
Number of isolates in the laboratory						2				68			
Number of isolates phagetyped	0	0	0	0	0	2	0	0	0	68	0	0	0
Number of isolates per phagetype													
DT 30													
DT 41										1			
DT 7													
DT 8										1			
DT 80						2				1			
DT 99										2			
Not typeable										25			
Other													
RDNC										6			
U 302										4			
U 311										7			

Phagetype	Pige	eons		Rabl	bits			Sheep ar	nd goats		So	lipeds, domest	tic
Sources of isolates	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Number of isolates in the laboratory	26				2				3				1
Number of isolates phagetyped	26	0	0	0	2	0	0	0	3	0	0	0	1
Number of isolates per phagetype													
DT 1													
DT 104					2								
DT 12													
DT 120													
DT 15													1
DT 19													
DT 193	3												
DT 2	5												
DT 20a													
DT 22													
DT 3													

Phagetype	Pige	eons		Rabl	bits			Sheep ar	nd goats		So	lipeds, domes	ic
Sources of isolates	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical
Number of isolates in the laboratory	26				2				3				1
Number of isolates phagetyped	26	0	0	0	2	0	0	0	3	0	0	0	1
Number of isolates per phagetype													
DT 30													
DT 41													1
DT 7													
DT 8													
DT 80													
DT 99	7												
Not typeable	9								2				1
Other													
RDNC													
U 302	2												
U 311									1				

Phagetype	Solipeds, domestic		Turkeys				Turtles - pe	et animals			Water b	uffalos	
Sources of isolates	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory				2				1				5	1
Number of isolates phagetyped	0	0	0	2	0	0	0	1	0	0	0	5	0
Number of isolates per phagetype													(C)
DT 1													
DT 104													0
DT 12													
DT 120													2
DT 15													
DT 19													8
DT 193													
DT 2													
DT 20a													
DT 22													
DT 3													

Phagetype	Solipeds, domestic		Turkeys				Turtles - pe	et animals			Water b	uffalos	
Sources of isolates	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory				2				1				5	5
Number of isolates phagetyped	0	0	0	2	0	0	0	1	0	0	0	5	0
Number of isolates per phagetype													
DT 30													:
DT 41													0
DT 7													
DT 8													
DT 80													
DT 99													
Not typeable				1								4	
Other													
RDNC								1					
U 302												1	
U 311				1									

Phagetype		Wild b	ooars	
Sources of isolates	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory			6	
Number of isolates phagetyped	0	0	6	0
Number of isolates per phagetype				
DT 1			1	
DT 104				
DT 12				
DT 120				
DT 15				
DT 19				
DT 193				
DT 2			1	
DT 20a				
DT 22				
DT 3			1	

Phagetype		Wild b	ooars	
Sources of isolates	Control program	Monitoring	Clinical	Surveillance
Number of isolates in the laboratory			6	
Number of isolates phagetyped	0	0	6	0
Number of isolates per phagetype				
DT 30				
DT 41				
DT 7				
DT 8				
DT 80				
DT 99				
Not typeable			3	
Other				
RDNC				
U 302				
U 311				

Phagetype	Meat from bovine animals		Meat fr	rom pig	Meat fron (Gallus		Meat from c		Other pro anima	oducts of I origin		n broilers Ilus) - fresh	Meat from other animal species or not specified
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring
Number of isolates in the laboratory		11		72		11		1					11
Number of isolates phagetyped	0	11	0	72	0	11	0	1	0	0	0	0	11
Number of isolates per phagetype													
DT 104		2		3									
DT 110				1									
DT 12		1		1									Monitoring 11 11
DT 120				9									1
DT 18													
DT 193				1									
DT 2								1					
DT 20				1									
DT 20a		1		1									

Phagetype	Meat froi anir		Meat fr	rom pig	Meat fror (Gallus			other poultry cies	Other pro anima	oducts of I origin		m broilers Ilus) - fresh	Meat from other animal species or not specified	Italy
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	- 2010
Number of isolates in the laboratory		11		72		11		1					11	- 1
Number of isolates phagetyped	0	11	0	72	0	11	0	1	0	0	0	0	11	ort on
Number of isolates per phagetype														trend
DT 41				1										s and s
DT 7		1												Report on trends and sources of zoonoses
Not typeable		5		39		9							1	of zoc
Other				1		2							9	noses
RDNC				2										
U 302				5										
U 311		1		7										

Phagetype	Meat from other animal species or not specified	Meat fro	m rabbit	Meat fro	m sheep	Meat fro	m turkey	Meat, mixed meat		Molluscar	n shellfish
Sources of isolates	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Number of isolates in the laboratory	33		3		1		14		4		8
Number of isolates phagetyped	33	0	3	0	1	0	14	0	4	0	8
Number of isolates per phagetype											
DT 104	1						3				
DT 110	1										
DT 12											1
DT 120	5										1
DT 18	1										
DT 193											
DT 2	1								1		
DT 20											
DT 20a											
DT 41											

Phagetype	Meat from other animal species or not specified	Meat from rabbit		Meat fro	m sheep	Meat fro	m turkey	Meat, mi	xed meat	Molluscar	n shellfish
Sources of isolates	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance
Number of isolates in the laboratory	33		3		1		14		4		8
Number of isolates phagetyped	33	0	3	0	1	0	14	0	4	0	8
Number of isolates per phagetype											
DT 7											
Not typeable	12		3		1		5		1		2
Other									2		4
RDNC	1						1				
U 302	4										
U 311	7						5				

2.1.6 Antimicrobial resistance in Salmonella isolates

A. Antimicrobial resistance in Salmonella in cattle

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing Passive Surveillance

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

B. Antimicrobial resistance in Salmonella in foodstuff derived from cattle

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Passive Surveillance

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

C. Antimicrobial resistance in Salmonella in foodstuff derived from pigs

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Passive Surveillance (sampling stage: in total)

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

D. Antimicrobial resistance in Salmonella in foodstuff derived from poultry

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Passive Laboratory Surveillance

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

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

Sampling context: passive monitoring/surveillance in meats and meat products (from the most relevant food animal species):

Meat from poultry (fowl, turkeys), pigs, and cattle

Only 48 Salmonella isolates from passive monitoring/surveillance of the most relevant production chains (pigs, poultry, turkeys and cattle) were sent to the NRL-AR for susceptibility testing in 2010.

Among these, 6.2% (3/48) were FQ-R, while 20.8% showed multiresistance (nR=3+)

E. Antimicrobial resistance in Salmonella in pigs

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Passive Laboratory Surveillance

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

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

Antimicrobial resistance of Salmonella (all serovars) in Pigs

In 2010, passive surveillance provided n=33 Salmonella isolates (all serovars). FQ-resistance was 15.1%, and was present in multiresistant isolates (i. e. nR=3+) only. Beta-lactam (AMP) resistance reached 64.5%, although no expanded-spectrum cephalosporin resistance was observed. High multi-resistance rates were observed since 72.7% were the isolates with nR=3+ and 54.5% were those with nR=4+, respectively. Monophasic S. Typhimurium 4,[5],12:i: and S. Derby were the serovars most frequently showing multiresistance.

F. Antimicrobial resistance in Salmonella in poultry

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Isolates available from National Control Plans in Gallus gallus (i. e. Breeding flocks, laying hens, broilers). Additional Data from Passive Laboratory surveillance (Laying hens, Fowl)

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

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

Sampling context: National Control Programme for Salmonella in Gallus gallus Antimicrobial resistance in Salmonella (all serovars)

a. Broilers

In the year 2010, the national control programme provided 62 viable isolates sent for antimicrobial susceptibility testing to the NRL-AR.

Fluoroquinolone (FQ) resistance was 19.3% (MIC range 0.12-0.50, mode 0.25 mg/L), and 16.1% isolates showed FQ resistance combined in multiresistance patterns (i. e. nR=3+). Resistance to expanded-spectrum cephalosporins (ESC: Cefotaxime, CTX and Ceftazidime, CAZ) was found in 3.2% of all isolates tested. One of the two isolate was multi-resistant (6 classes of antimicrobials, including FQ).

Multiresistance was widespread among Salmonella isolates from broilers: 50% were resistant to 3+, and 35.5% to 4+ unrelated antimicrobials, respectively. Salmonella beta-lactam resistance (ampicillin, AMP) was observed in 41.9% isolates.

Note. In 2009, 140 isolates had been available for testing: ESC resistance was slightly higher (6.4%), and FQ resistance was 29.3%. In 2008, only 24 isolates from survey according to Comm. Dec. 516/2007/EC had been available for testing, and this may have overestimated some resistance rates observed (e. g. ESC and FQ) in 2008.

b. Laying hens

In the year 2010, from the national Salmonella control programme in laying hens, 127 isolates (all serovars) were available for susceptibility testing at the NRL-AR.

Among these, 23.6% showed resistance to fluoroquinolones (FQ, range: 0.12-0.5, mode 0.25), a picture similar to what observed in 2009. All FQ-resistant isolates were also multi-resistant ones (nR=3+),

Moreover, 2.4% were found resistant to expanded-spectrum cephalosporins (ESC: Cefotaxime, CTX and Ceftazidime, CAZ). These isolates were also resistant to FQ.

Only one, among S Enteritidis isolates available, showed FQ resistance.

Although in holdings of laying hens the resistance rates for other antimicrobial classes appeared to be lower than those observed in broilers, multiresistance was a common feature: 24.4% isolates were resistant to 3+ classes and 11.0 to 4+ classes, respectively. Beta-lactam resistance (AMP) reached 16.5%.

c. Breeding flocks Gallus gallus

In the year 2010, 64 isolates from breeding holdings of Gallus gallus were available for testing at the NRL-AR, including n=1 S. Typhimurium (STM) and n=3 S. Enteritidis (SE).

None of the isolates available was resistant expanded-spectrum cephalosporins (ESC), and FQ

resistance was 6.2%, significantly lower than in broilers and layers. The isolates of STM and SE were pansusceptible (n=3) or resistant to only one antimicrobial class (n=1).

Similarly, multiresistance was observed at significantly lower rates, since it was 7.8% (nR=3+) and 1.6% (nR=4+), respectively.

Sampling context: National Control Programme in turkeys

Antimicrobial resistance in Salmonella (all serovars)

In the year 2010, 66 isolates from breeding and production holdings of turkeys were available for testing at the NRL-AR. Fluoroquinolone (FQ) resistance was 13.6% (MIC range 0.12-1.0, mode 0.5 mg/L), with the majority of FQ-resistant isolates that were also multiresistant ones (nR=3+). No resistance to expanded-spectrum cephalosporins (ESC) was found among the isolates tested.

Multiresistance was particularly widespread among Salmonella isolates from turkeys: 95.5% were resistant to 3+, and 89.4% to 4+ unrelated antimicrobials, respectively. Similarly, Salmonella beta-lactam resistance (AMP) was very high among isolates from turkeys: 87.9%.

Sampling context: Passive Surveillance

Antimicrobial resistance in Salmonella (all serovars)

Fowl (Gallus gallus)

Passive Laboratory surveillance provided n=107 Salmonella (all serovars) isolates from Gallus gallus for sensitivity testing. Resistance to FQ was 38.3% (40/107). Among FQ-resistant isolates, 55% were also multiresistant ones (i. e. nR=3+). Beta-lactam resistance (AMP) was 22.6%. The overall proportion of multi-resistant isolates reached 30.8% (nR=3+) and 24.3% (nR=4+), respectively.

General evaluation on AMR monitoring

In conclusion, monitoring of antimicrobial resistance in primary productions in Italy in 2010 demonstrated that multi-resistance is widespread in Salmonella isolates provided through the national control programmes (NCPs) in broilers and laying hens, along with relevant resistance rates for some classes of Critically Important Antimicrobials such as fluoroquinolones.

For the first time, few Salmonella isolates were found resistant to expanded-spectrum cephalosporins (ESC) in holdings of laying hens sampled according to the NCP, while ESC resistance in Salmonella from broilers was slightly lower (3.2%) than that recorded in the year 2009.

Multiresistance was found most frequently towards beta-lactams, sulphonamides, trimethoprim, aminoglycosides (e. g. streptomycin), and tetracyclines, although multiresistances including also fluoroquinolones appear also a very common pattern. These figures are similar to those observed in the previous year. Multiresistance was a feature also present, at very high rates, in holdings of turkeys sampled during the NCP. As far as passive surveillance is concerned, monitoring of zoonotic Campylobacter (C. jejuni and C. coli) should be improved and strengthen, since at present relies only on very few isolates voluntarily sent to the NRL-AR by some laboratories of the Istituti Zooprofilattici (IIZZSS) network (italian regional veterinary institutes) and collected from activities of passive laboratory monitoring/surveillance.

When interpreting data from passive surveillance, resistance rates may be influenced by sampling bias and small sample sizes, although it is well known that for food of animal origin and for some production chains are the only kind of information available, especially for some zoonotic pathogen (e. g. Campylobacter) or for some combination between zoonotic pathogen and primary production (e. g. Salmonella in bovine animals and in pigs).

G. Antimicrobial resistance of Salmonella spp. in animal - Turkeys - Surveillance

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Passive Surveillance

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

H. Antimicrobial resistance of Salmonella spp. in animal - Gallus gallus (fowl) - laying hens - Control and eradication programmes (Comm. Reg. 1168/2006/EC)

Sampling strategy used in monitoring

Procedures for the selection of isolates for antimicrobial testing

Isolates available from the National Control Plan in laying hens

Laboratory used for detection for resistance

Antimicrobials included in monitoring

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

Cut-off values used in testing

EUCAST epidemiological cut-off values used (according to Comm. Dec. 2007/407/EC).

Table Antimicrobial susceptibility testing of S. Newport in Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance - quantitative data [Dilution method]

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

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

Table Antimicrobial susceptibility testing of S. Senftenberg in Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance - quantitative data [Dilution method]

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

S. Senftenberg	Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance																								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Hadar in Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance - quantitative data [Dilution method]

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

							о (р.	9,,,	idi i iboi	01 10010	100 1111		001111141	011 01 11		· oqua.									
S. Hadar	Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance																								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo in Compound feedingstuffs for poultry (non specified) - at farm - feed sample - Surveillance - quantitative data [Dilution method]

							т. (р.	9,,,,,,		01 15014	100 1111	1 4 0011	001111 011	011 01 11		· oqua.									
S. Montevideo								Compo	und feed	dingstuff	s for pou	ıltry (nor	n specifie	ed) - at f	arm - fee	ed samp	le - Sun	/eillance							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

						1100111110	πιοι (μ	9,,,,,,	Idilibei	01 13010	NOS WILL	1 4 5011	oonii uu	OH OH		roquar									
S. Bredeney											Meat fro	m turke	y - in to	tal - Sun	veillance)									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Agona							,				Meat	from pig	- in tota	I - Surve	illance										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

							т. (р.	9,,,,,,	idi i i boi	01 10010	100 1111	1 4 0011	001111 011	011 01 11		· oqua.									
S. Enteritidis										Meat fro	m broile	ers (Gallu	us gallus	s) - at ret	ail - Sur	veillance	Э								
Isolates out of a monitoring program (yes/no)		1																							
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. enterica subsp. enterica								571				ovine an													
Isolates out of a monitoring program (yes/no)		1																							
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Coeln							·			Meat fro	m broile	ers (Gallu	us gallus	s) - at ret	ail - Sur	veillance	•								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Derby											Meat f	rom pig	- in tota	I - Surve	illance										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													7												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	7	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	7	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	7	3	0	0	0	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	7	0	0	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	7	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	7	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	7	2	0	0	0	0	0	0	0	0	0	0	4	1	0	0	2	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	7	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	7	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	7	0	0	0	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	3	0		
Cephalosporins - Ceftazidim	2	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Derby							V.			Mea	t from be	ovine ar	imals - a	at retail -	- Surveill	lance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Rissen							<u> </u>							I - Surve											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Rissen							· ·			Mea	t from b	ovine ar	imals - a	at retail -	Surveill	ance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	1	0	0	0	0	0	0	0	0	5	2	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	0	0	0	0	0	0	0	0	0	1	5	2	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	8	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	1	0	0	0	0	0	0	0	0	0	3	3	1	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	1	0	0	0	0	0	0	0	7	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Hadar							<u> </u>	<u> </u>		Meat fro	m broile	ers (Gallu	us gallus	s) - at ret	ail - Sur	veillance)								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Infantis in Cheeses made from sheep's milk - at retail - Surveillance - quantitative data [Dilution method]

Concentration (µg/ml), number of isolates with a concentration of inhibition equal to S. Infantis Cheeses made from sheep's milk - at retail - Surveillance Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Cut-off Antimicrobials: <=0.008 0.015 0.03 0.5 Ν 0.06 0.12 0.25 >2048 lowest highest value Amphenicols - Chloramphenicol Amphenicols - Florfenicol Tetracyclines - Tetracycline 0.06 Fluoroquinolones - Ciprofloxacin Quinolones - Nalidixic acid Trimethoprim Aminoglycosides - Streptomycin Aminoglycosides - Gentamicin Aminoglycosides - Kanamycin Penicillins - Ampicillin Cephalosporins - Cefotaxim 0.5 Sulphonamides

Cephalosporins - Ceftazidim

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

S. Infantis							4							I - Surve		·									
Isolates out of a monitoring program (yes/no)																									\Box
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Infantis							T U	<u> </u>		Mea	t from b	ovine an	imals - a	at retail -	Surveill	ance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium 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. Typhimurium 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 <=0.008 0.015 0.03 0.5 Ν 0.06 0.12 0.25 >2048 lowest highest Amphenicols - Chloramphenicol Amphenicols - Florfenicol Tetracyclines - Tetracycline 0.06 Fluoroquinolones - Ciprofloxacin Quinolones - Nalidixic acid Trimethoprim Aminoglycosides - Streptomycin Aminoglycosides - Gentamicin Aminoglycosides - Kanamycin Penicillins - Ampicillin Cephalosporins - Cefotaxim 0.5

Sulphonamides

Cephalosporins - Ceftazidim

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

S. London							4							I - Surve		·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Muenchen							,				Meat	from pig	- in tota	I - Surve	illance										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

							т. (р.	9,,,	idi i iboi	01 10010	100 1111		001111 011	011 01 11		· oqua:									
S. Muenchen										Meat fro	m broile	ers (Gallu	us gallus	s) - at ret	ail - Sur	veillance	е								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

S. Anatum							<u> </u>							I - Surve											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	ication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	1	0	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	4	1	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	1	0	0	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Isangi in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Isangi							(ontrol an				es							
Isolates out of a monitoring																									
program (yes/no) Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							(llus gallu									mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													16												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	16	0	0	0	0	0	0	0	0	0	1	13	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	16	0	0	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	16	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	16	16	0	0	0	0	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0		
Trimethoprim	2	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	16	0	0	0	0	0	0	0	0	0	0	5	11	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	16	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	16	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	16	0	0	0	0	0	0	0	1	14	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	16	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	16	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	16	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Kentucky							- u	<u> </u>		(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													11												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	11	0	0	0	0	0	0	0	0	0	1	8	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	11	0	0	0	0	0	0	0	0	0	3	7	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	11	2	0	0	0	0	0	0	0	6	1	2	0	1	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	11	10	0	0	1	0	0	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	11	10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	10	0	0	0	0	0		
Trimethoprim	2	11	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	11	1	0	0	0	0	0	0	0	0	0	1	7	2	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	11	0	0	0	0	0	0	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	11	1	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	11	2	0	0	0	0	0	0	0	8	1	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	11	0	0	0	0	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	11	0	0	0	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Kentucky in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Kentucky							(<u>J. 711</u>						- at farm											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Blockley in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Blockley							· ·	<u> </u>		Turkeys	s - at far	m - Con	trol and	eradicati	on progi	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Blockley in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

							ион (р	9,,,,,,	141111201	01 10010	too witi	1 4 0011	001111 011	011 01 11		· oqua.									
S. Blockley								Ga	llus gallı	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication _l	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0		
Penicillins - Ampicillin	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Blockley in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Blockley							· ·	<u> </u>		Gallus (gallus (fo	owl) - lay	ving hen	s - at far	m - Surv	eillance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		

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S. Blockley										(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	е									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Bredeney in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

						1100111110	ион (р	9,,,,,,	141111201	01 15010	too witi	1 4 0011	oon a a	011 01 11		· oqua.									
S. Bredeney										Turkeys	s - at far	m - Con	trol and	eradicat	ion prog	rammes									
Isolates out of a monitoring program (yes/no)		6																							
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	1	0	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	1	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0		
Trimethoprim	2	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	3	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	2	0	0	0	0	0	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0		
Penicillins - Ampicillin	4	6	3	0	0	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Bredeney in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

							т. (р.	9,,,,,,	Idilliboi	01 10010	100 11111		001111141	011 01 11		· oqua.									
S. Bredeney								Ga	llus gallı	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication _l	orogram	mes							
Isolates out of a monitoring program (yes/no)		2																							
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Bredeney in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Bredeney							•	<u> </u>			Р	igs - at f	arm - Sı	urveilland	ce	·									
												.go at 1	J.111 OC	7 O O											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Bredeney							- 1	<i>y</i> ,						arm - Su											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Bredeney in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

						riceritie	шоп (р	9/1111), 1	lumber	01 13014	ics will	1 4 0011	cerman	011 01 11	mibilion	requar									
S. Bredeney								(Gallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	1	0	0	0	0	0	0	0	0	0	5	2	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	2	5	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0		
Penicillins - Ampicillin	4	8	1	0	0	0	0	0	0	0	5	2	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Newport in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Newport							W.	<u> </u>						eradicati											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													21												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	21	0	0	0	0	0	0	0	0	0	0	9	12	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	21	0	0	0	0	0	0	0	0	0	0	16	5	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	21	20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	20	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	21	3	1	7	10	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	21	1	0	0	0	0	0	0	0	0	0	17	1	2	0	0	1	0	0	0	0	0		
Trimethoprim	2	21	19	0	0	0	0	0	0	2	0	0	0	0	0	0	19	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	21	0	0	0	0	0	0	0	0	0	0	6	10	3	2	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	21	1	0	0	0	0	0	8	11	0	1	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	21	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	21	19	0	0	0	0	0	0	0	2	0	0	0	0	1	18	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	21	0	0	0	0	17	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	21	20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	20	0		
Cephalosporins - Ceftazidim	2	21	0	0	0	0	0	0	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Newport in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Newport							· ·	<u> </u>		(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Agona in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Agona							· ·	<u> </u>		Turkeys	s - at far	m - Con	trol and	eradicati	on progi	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	ication p	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	2	3	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

							т. (р.	9,,,,,,	Idilliboi	01 10010	1100 1111	. a oo	001111141			· oqua.									
S. Agona							Ga	llus gallı	us (fowl)	- breedi	ng flocks	s, unspe	cified - a	at farm -	Control :	and erac	dication	program	mes						
Isolates out of a monitoring program (yes/no)		1																							
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Agona in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Agona							4	<u> </u>						arm - Sui											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Concentration	(ua/ml).	number (of isolates	with a	concentration	of inhibition	egual to
Concentiation	(µq/1111/,	HUHIDCH	บาเวบเนเบร	vviti a	CONCCINIATION		Cyuai io

S. Agona							· ·	<u> </u>		Gallu	s gallus	(fowl) - l	oroilers -	- at farm	- Survei	llance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· · · · · · · · · · · · · · · · · · ·							Control a				mes							
Isolates out of a monitoring																									
program (yes/no) Number of isolates available in the laboratory													18												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	19	0	0	0	0	0	0	0	0	0	0	14	5	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	19	0	0	0	0	0	0	0	0	0	1	18	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	19	1	0	0	0	0	0	0	0	12	5	1	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	19	1	0	11	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	19	1	0	0	0	0	0	0	0	0	0	17	0	1	0	0	1	0	0	0	0	0		
Trimethoprim	2	19	2	0	0	0	0	0	0	15	2	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	19	0	0	0	0	0	0	0	0	0	10	5	3	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	19	0	0	0	0	0	0	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	19	1	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	19	1	0	0	0	0	0	0	1	11	6	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	19	0	0	0	0	14	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	19	3	0	0	0	0	0	0	0	0	0	0	0	1	6	7	2	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	19	0	0	0	0	0	0	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Enteritidis in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

							т. (р.	9,,,,,,	141111201	01 10010	100 11111		001111141	011 01 11		· oqua.									
S. Enteritidis							Ga	llus gallı	ıs (fowl)	- breedii	ng flocks	s, unspe	cified - a	t farm -	Control a	and erad	dication	program	mes						
Isolates out of a monitoring program (yes/no)		3																							
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Enteritidis							·			(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Enteritidis in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Enteritidis							· ·		Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	4	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Kottbus in Turkeys - at farm - Surveillance - quantitative data [Dilution method]

S. Kottbus							,				Tur	·keys - a	t farm - :	Surveilla	ince	,									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Kottbus in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Kottbus							Y.	<u> </u>		(arm - Sui											
Isolates out of a monitoring program (yes/no)		2																							
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Liverpool in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

						riceritie	ιτιστι (μ	9/1111), 1	lumber	01 13014	ites with	1 4 0011	cerman	011 01 11	mibilion	requar	10								
S. Liverpool								C	Gallus ga	llus (fow	/l) - broil	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	6	3	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Choleraesuis in Pigs - at farm - Surveillance - quantitative data [Dilution method]

						11001111	ион (р	9/1111/, 1	Idilibei	01 15010	too witi	1 4 0011	oonii ati	011 01 11	ii ii biti oi	roquai	10								
S. Choleraesuis											Р	igs - at f	ārm - Sı	urveillan	ce										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Thompson								<u> </u>		Ca	ttle (bov	ine anin	nals) - at	farm - S	Surveillar	nce									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Thompson							·			(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Thompson in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Thompson									Sallus ga									es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. 4,12:i:- in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. 4,12:i:-							4							urveilland		·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	1	3	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	2	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	2	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	5	1	0	0	0	0	0	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	1	0	0	0	0	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	1	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4	0		
Cephalosporins - Ceftazidim	2	5	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. 4,12:i:-							T. U	<u> </u>		(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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]

S. enterica subsp. enterica														Control a		·		mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							(F		Sallus ga									es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Senftenberg in Guinea fowl - at farm - Surveillance - quantitative data [Dilution method]

S. Senftenberg							41 (- Survei	llance	· ·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		

S. Senftenberg							T U	<u> </u>		(Gallus g	allus (fo	wl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Coeln in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Coeln														it farm -				program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Coeln in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

							(<u>,, .</u>		. , , , ,				011 01 111											
S. Coeln								G	Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Derby in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Derby							4 .							urveilland	ce	·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													10												
Antimicrobials:	Cut-off value	Ν	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	10	2	0	0	0	0	0	0	0	0	0	0	8	0	0	0	2	0	0	0	0	0		
Amphenicols - Florfenicol	16	10	2	0	0	0	0	0	0	0	0	0	5	3	0	0	0	2	0	0	0	0	0		
Tetracyclines - Tetracycline	8	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	10	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	10	1	0	0	0	0	0	0	0	0	1	5	3	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	10	1	0	0	0	0	0	1	8	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	3	0	0	0	0		
Aminoglycosides - Gentamicin	2	10	1	0	0	0	0	1	3	5	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	10	2	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	2	0	0	0	0		
Penicillins - Ampicillin	4	10	2	0	0	0	0	0	0	0	8	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	10	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0		
Cephalosporins - Ceftazidim	2	10	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

						riccritic	ιτιστι (μ	9/1111), 1	IUITIDEI	01 13010	ites witi	i a con	CCIIII ati	OII OI II	IIIIDILIOI	cquai	10								
Salmonella spp., unspecified										Turkey	s - at far	m - Con	trol and	eradicati	ion prog	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	1	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	5	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	2	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	1	0	0	0	0	0	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4	0		
Cephalosporins - Ceftazidim	2	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

						riccritic	ιτιστι (μ	9/1111), 1	iumbei	01 13014	itos witi	Tu com	cerman	011 01 11	IIIDILIOI	requar	10								
Salmonella spp., unspecified								Ga	llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication _l	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													13												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	13	0	0	0	0	0	0	0	0	0	0	3	10	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	13	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	13	3	0	0	0	0	0	0	0	6	2	2	0	0	1	1	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	13	1	0	10	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	13	1	0	0	0	0	0	0	0	0	0	12	0	0	0	1	0	0	0	0	0	0		
Trimethoprim	2	13	0	0	0	0	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	13	0	0	0	0	0	0	0	0	0	0	3	6	2	2	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	13	1	0	0	0	0	0	8	4	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	13	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	13	4	0	0	0	0	0	0	0	8	1	0	0	0	0	4	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	13	0	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	13	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	13	0	0	0	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

0.1							т	9,,	idi i iboi																
Salmonella spp., unspecified									Gallus	gallus (fo	owl) - bre	eeding fl	ocks, un	specifie	d - at far	m - Sur	veillance								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

Salmonella spp., unspecified							- V	<i>y</i> ,,	- 2.2					farm - S											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Pigs - at farm - Surveillance - quantitative data [Dilution method]

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

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Pigs - at farm - Monitoring - quantitative data [Dilution method]

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

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

							о (р.	9,,,	idi i iboi	01 10010	100 1111		001111 411	011 01 11		· oqua.	-								
Salmonella spp., unspecified										(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													16												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	16	0	0	0	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	16	0	0	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	16	2	0	0	0	0	0	0	5	0	9	0	0	0	0	1	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	16	6	0	5	5	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	16	6	0	0	0	0	0	0	0	0	8	2	0	0	0	0	6	0	0	0	0	0		
Trimethoprim	2	16	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	16	2	0	0	0	0	0	0	0	0	0	5	6	3	0	0	2	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	16	0	0	0	0	0	13	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	16	0	0	0	0	0	0	0	0	0	14	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	16	4	0	0	0	0	0	0	0	11	1	0	0	0	0	4	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	16	0	0	0	11	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	16	2	0	0	0	0	0	0	0	0	0	0	0	0	1	11	2	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	16	0	0	0	0	0	13	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

						riccritic	ион (р	9/1111), 1	IUITIDEI	01 13014	tes witi	Tu com	cerman	011 01 11	ii iibitioi	requar	10								
Salmonella spp., unspecified								C	Sallus ga	llus (fow	ıl) - broil	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	3	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. enterica subsp. salamae in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. enterica subsp. salamae						riceria		_	us (fowl)					it farm -				program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	2	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	5	1	0	0	0	0	0	0	3	1	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	5	1	0	0	0	0	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	1	0		
Cephalosporins - Ceftazidim	2	5	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Rissen in Pigs - at farm - Surveillance - quantitative data [Dilution method]

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

Table Antimicrobial susceptibility testing of S. Rissen in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

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S. Rissen										(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	е									
Isolates out of a monitoring program (yes/no)		2 Cut-off																							
Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Rissen in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Rissen							· ·		Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Saintpaul in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

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S. Saintpaul										Turkeys	s - at far	m - Con	trol and	eradicat	ion prog	rammes									
Isolates out of a monitoring program (yes/no)		Cut-off N - 10000 0015 000 000 000 005 005 00 000 0																							
Number of isolates available in the laboratory																									
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	10	1	0	0	0	0	0	0	0	0	0	3	6	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	10	0	0	0	0	0	0	0	0	0	0	6	3	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	10	1	0	5	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	10	1	0	0	0	0	0	0	0	0	0	9	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	10	9	0	0	0	0	0	0	1	0	0	0	0	0	0	9	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	10	1	0	0	0	0	0	0	0	0	0	0	0	5	4	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	10	0	0	0	0	0	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	10	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	10	9	0	0	0	0	0	0	0	1	0	0	0	0	0	9	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	10	0	0	0	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0		
Cephalosporins - Ceftazidim	2	10	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Schwarzengrund in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

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S. Schwarzengrund										Turkey	s - at far	m - Con	trol and	eradicat	ion prog	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													16												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	16	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	16	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	11	5	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	16	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	16	0	0	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	16	1	0	0	0	0	0	0	14	1	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	16	15	0	0	0	0	0	0	0	0	0	1	0	0	0	13	2	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	16	15	0	0	0	0	0	1	0	0	0	0	0	2	12	1	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	16	0	0	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	16	0	0	0	0	13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	16	1	0	0	0	0	0	0	0	0	0	0	0	0	13	2	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	16	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Schwarzengrund in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Schwarzengrund							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Concentration	(ua/ml).	number of	isolates	with a	concentration	of inhibition	equal to
Concentiation	(μα/ππ),	Hullibel Of	isolates	vviti a	CONCCIMATION		cquai to

S. Tennessee							4	<u> </u>		(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Give in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Give											Р	Pigs - at f	farm - Sı	urveilland	ce										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Veneziana in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Veneziana								Ga	llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication p	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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						10011110		_	us (fowl)									orogram	mos						
							Ga	iius yalit	is (IOWI)	- breedii	ilg ilocks	s, unspe	ciileu - a		Control	and erac	iication	program	ines						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Veneziana in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Veneziana							- (<i>y</i> ,,,,						arm - Su											
Isolates out of a monitoring program (yes/no)		1																							
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							(F							Control a				mes							
Isolates out of a monitoring																									
program (yes/no)		2																							
Number of isolates available in the laboratory									•				2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Virchow in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Virchow									ıs (fowl)									orogram	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Virchow in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Virchow							· ·	<u> </u>		(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Virchow in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Virchow							· ·		Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	ication _l	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar											ng flocks			ıt farm -				orogram	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Hadar							· ·	<u> </u>		(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	5	0	0	0	0	0	0	0	0	1	0	0	0	0	2	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	6	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0		
Trimethoprim	2	6	0	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	5	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	5	0	0	0	0	0	0	1	0	0	0	0	0	0	5	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Hadar in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Hadar							· ·		Sallus ga	llus (fow	l) - broil	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	4	0	0	0	0	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	6	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0		
Trimethoprim	2	6	2	0	0	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	1	1	0	4	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

					Co	ncentra	ition (μ	g/ml), n	umber	of isola	tes with	a con	centrati	on of in	hibition	n equal	to								
S. Hadar										Gallu	s gallus	(fowl) - l	oroilers -	at farm	- Survei	llance									
Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		7																							
Antimicrobials:	Cut-off value	Cut-off N 7 5-0.009 0.015 0.03 0.05 0.13 0.25 0.5 1 2 4 9 15 23 64 139 355 513 1034 2049 2049 199991															highest								
Amphenicols - Chloramphenicol	16	N n <=0.006 0.015 0.03 0.06 0.12 0.25 0.5 1 2 4 8 16 32 64 128 256 512 1024 2048 >2048 100																							
Amphenicols - Florfenicol	16	7	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	7	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0		
Trimethoprim	2	7	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	7	0	0	0	0	0	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	7	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	7	0	0	0	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	7	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	7	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

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									llus gallu									mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Infantis							· ·	<u> </u>	Gallus (gallus (fo	owl) - bre	eeding fl	ocks, un	specifie	d - at far	m - Sur	/eillance								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Infantis in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Infantis							4	<u> </u>			Р	igs - at f	arm - Sı	urveillan	ce	· ·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Infantis in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Infantis							·			(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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S. Kedougou										\$	Solipeds	, domes	tic - at fa	arm - Su	rveillanc	е									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Kedougou in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

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S. Kedougou								(Sallus ga	llus (fow	ıl) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Brandenburg in Pigs - at farm - Surveillance - quantitative data [Dilution method]

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S. Brandenburg											P	Pigs - at f	farm - Sı	urveillan	ce										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	3	2	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	2	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	2	0	0	0	0	0	0	0	0	0	4	0	0	0	1	1	0	0	0	0	0		
Trimethoprim	2	6	2	0	0	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	2	0	0	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	2	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

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S. Montevideo										Gallus	gallus (fo	owl) - lay	ving hen	s - at fan	m - Surv	eillance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

							ж.	9,,,		01 15010	100 1111		001111141	.0 0		. oqua.									
S. Montevideo							Ga	llus gallı	ıs (fowl)	- breedii	ng flocks	, unspe	cified - a	at farm -	Control :	and erac	dication	program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													17												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	17	0	0	0	0	0	0	0	0	0	0	8	9	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	17	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	17	0	0	0	0	0	0	0	0	13	4	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	17	0	0	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	17	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	17	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	17	0	0	0	0	0	0	0	0	0	0	1	15	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	17	0	0	0	0	0	0	4	13	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	17	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	17	0	0	0	0	0	0	0	1	15	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	17	0	0	0	0	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	17	0	0	0	0	0	0	0	0	0	0	0	0	4	9	4	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	17	0	0	0	0	0	0	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Montevideo							T U	<u> </u>		(Gallus g	allus (fo	wl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	3	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	1	0	0	0	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	6	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	1	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	6	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	1	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Montevideo							· ·		Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													6												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	6	1	0	0	0	0	0	0	0	0	0	2	3	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	6	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	6	1	0	0	0	0	0	0	0	3	2	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	6	3	0	3	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	6	3	0	0	0	0	0	0	0	0	0	3	0	0	1	0	2	0	0	0	0	0		
Trimethoprim	2	6	1	0	0	0	0	0	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	6	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	6	0	0	0	0	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	6	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	6	3	0	0	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	6	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	6	1	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	6	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo in Gallus gallus (fowl) - broilers - at farm - Surveillance - quantitative data [Dilution method]

S. Montevideo							(<u>J. 711.</u>						- at farm											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	1	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Napoli in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Napoli									ıs (fowl)									program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Meleagridis var. 15 in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Meleagridis var. 15							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Meleagridis var. 15 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. Meleagridis var. 15 Gallus gallus (fowl) - at farm - Surveillance Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Cut-off Antimicrobials: N <=0.008 0.015 0.03 0.06 0.12 0.25 0.5 >2048 lowest highest Amphenicols - Chloramphenicol Amphenicols - Florfenicol

Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	

S. Corvallis							· ·	<u> </u>		(Gallus ga	allus (fo	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Corvallis in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Corvallis								G	Sallus ga	llus (fow	l) - broile	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	ication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	0	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	1	0	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	8	1	0	0	0	0	0	0	7	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	0	0	0	0	0	0	0	0	0	0	3	4	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	1	0	0	0	0	0	0	0	5	2	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	1	0	0	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Heidelberg in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Heidelberg			_				(<i>3</i> //						s - at far							_		_		
Isolates out of a monitoring																									
program (yes/no) Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Concentration (µg/ml), number of isolates with a concentration of inhibition equal	Concentration ((ua/ml)	number of	isolates	with a	concentration	of inhibition	egual to
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S. Heidelberg							· ·	<u> </u>		(Gallus ga	allus (fov	vl) - at fa	arm - Su	rveillanc	e									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	0	0	0	0	0	0	0	0	2	5	0	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	1	0	0	0	0	0	0	0	0	1	6	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	8	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	1	0	0	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Typhimurium							Y.	<u> </u>		Turkey	s - at far	m - Cont	trol and	eradicat	ion prog	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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								Ga	llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication p	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	4	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Typhimurium								_	us (fowl)									program	mes						
Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Cattle (bovine animals) - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium							V.	<i>3</i> . ,,		Ca	ittle (bov	ine anim	nals) - at	farm - S	Surveilla	nce									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium														ırveilland		•									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	1	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	1	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	3	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	4	3	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - at farm - Surveillance - quantitative data [Dilution method]

S. Typhimurium						- /-	- (<u>,,,,</u>						arm - Sui											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Typhimurium in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

							т. (р.	9,,,,,,	idiiiboi	01 10010	100 1111	1 4 0011	001111 011	011 01 11		· oqua.									
S. Typhimurium								C	Sallus ga	llus (fow	l) - broil	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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								Ga	llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erac	lication p	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													7												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	7	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	7	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	7	2	0	0	0	0	0	0	0	1	4	0	0	0	1	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	7	1	0	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	7	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	7	1	0	0	0	0	0	0	5	0	1	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	7	1	0	0	0	0	0	0	0	0	1	2	3	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	7	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	7	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	7	2	0	0	0	0	0	0	1	4	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	7	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	7	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

S. Livingstone							· ·	<u> </u>		Gallus (gallus (fo	owl) - lay	ving hen	s - at far	m - Surv	eillance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Control and eradication programmes - quantitative data [Dilution method]

							т. (р.	9,,,	idi i iboi	01 10010	100 1111		001111 011	011 01 11		· oqua:									
S. Livingstone							Ga	llus gallı	ıs (fowl)	- breedii	ng flocks	s, unspe	cified - a	t farm -	Control a	and erad	dication	program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	3	4	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	0	6	1	1	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	0	0	0	0	0	0	0	0	2	3	2	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	1	0	4	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	1	0	0	0	0	0	0	0	0	0	1	5	1	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	1	0	0	0	0	0	5	2	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	0	0	0	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	1	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Livingstone							Y.	971	Gallus	gallus (fo															
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	5	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0		
Trimethoprim	2	5	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	5	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	1	0	0	0	0	0	0	0	0	1	3	0	1	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	5	2	0	0	0	0	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	2	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0		
Cephalosporins - Ceftazidim	2	5	2	0	0	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Livingstone in Pigs - at farm - Surveillance - quantitative data [Dilution method]

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

						110011110	о (р.	9,,,	Idiliboi	01 10010	100 1111		001111 011	0.1 0		· oqua:									
S. Livingstone										(Gallus ga	allus (fov	vI) - at fa	arm - Su	rveillanc	е									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													12												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	12	0	0	0	0	0	0	0	0	0	0	2	10	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	12	0	0	0	0	0	0	0	0	0	1	8	3	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	12	1	0	0	0	0	0	0	0	1	10	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	12	2	0	5	5	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	12	2	0	0	0	0	0	0	0	0	0	9	1	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	12	1	0	0	0	0	0	0	11	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	12	2	0	0	0	0	0	0	0	0	0	0	8	1	1	1	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	12	2	0	0	0	0	0	5	5	0	0	0	0	2	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	12	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	12	2	0	0	0	0	0	0	0	8	2	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	12	1	0	0	0	4	7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	12	3	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	12	1	0	0	0	0	0	5	6	0	0	0	0	0	1	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Livingstone in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Livingstone							(Sallus ga					ontrol an				es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	1	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	1	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

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 ingstone

Gallus gallus (fowl) - broilers - at farm - Surveillance

S. Livingstone										Gallu	s gallus	(fowl) - b	oroilers -	at farm	- Survei	llance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	Ν	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	2	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. London in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. London														urveilland		·									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	1	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	4	1	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Manhattan in Pigs - at farm - Surveillance - quantitative data [Dilution method]

S. Manhattan							,				Р	igs - at f	arm - Sı	urveillan	се										
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													2												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		
Trimethoprim	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	1	0	0	0	0	0	0	0	4	3	0	0	1	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	0	0	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	8	1	0	0	0	0	0	0	7	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	0	0	0	0	0	0	0	0	0	0	0	7	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	1	0	0	0	0	0	0	0	7	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - laying hens - at farm - Monitoring - 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 - Monitoring Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials: Cut-off <=0.008 0.015 0.03 0.5 Ν 0.06 0.12 0.25 >2048 lowest highest value Amphenicols - Chloramphenicol Amphenicols - Florfenicol Tetracyclines - Tetracycline 0.06 Fluoroquinolones - Ciprofloxacin Quinolones - Nalidixic acid Trimethoprim Aminoglycosides - Streptomycin Aminoglycosides - Gentamicin Aminoglycosides - Kanamycin Penicillins - Ampicillin Cephalosporins - Cefotaxim 0.5 Sulphonamides

Cephalosporins - Ceftazidim

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					30			_	" "																
							Ga	lius galli	us (fowl)	- preedii	ng flocks	s, unspe	citied - a	it farm -	Control	and erac	dication	program	mes						
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													16												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	16	0	0	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	16	0	0	0	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	16	13	0	0	0	0	0	0	0	2	1	0	0	0	0	0	13	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	16	0	0	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	16	0	0	0	0	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	16	1	0	0	0	0	0	0	14	1	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	16	0	0	0	0	0	0	0	0	0	0	0	12	4	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	16	0	0	0	0	0	0	2	14	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	16	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	16	1	0	0	0	0	0	0	0	13	2	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	16	0	0	0	0	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	1	0	0		
Cephalosporins - Ceftazidim	2	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0		

S. Mbandaka							4	<u> </u>						arm - Su											
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													7												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	7	0	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	7	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	7	1	0	0	0	0	0	0	0	1	4	1	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	7	2	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	7	2	0	0	0	0	0	0	0	0	1	4	0	0	0	1	1	0	0	0	0	0		
Trimethoprim	2	7	1	0	0	0	0	0	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	7	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	7	1	0	0	0	0	0	4	2	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	7	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	7	2	0	0	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	7	1	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	7	1	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Mbandaka in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Mbandaka							(ontrol an				es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

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							· ·		llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication	program	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0	1	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	1	0	0	0	0	0	0	0	1	3	0	0	0	0	1	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	1	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	5	1	0	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	1	0	0	0	0	0	0	0	0	0	1	1	2	0	0	1	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	5	1	0	0	0	0	0	0	0	1	3	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	5	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Muenchen in Gallus gallus (fowl) - laying hens - at farm - Surveillance - quantitative data [Dilution method]

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S. Muenchen										Gallus	gallus (fo	owl) - lay	ving hen	s - at fan	m - Surv	veillance									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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								_	us (fowl)									program	mes						
							J u	2 33	(.2)		J 2 3c	, ш.сро						3							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													7												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	7	0	0	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	7	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	7	2	0	0	0	0	0	0	0	4	1	0	0	0	0	0	2	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	7	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	7	0	0	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	7	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	7	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	7	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	7	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	7	1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	7	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Muenchen in Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance - quantitative data [Dilution method]

S. Muenchen							· ·	<u> </u>	Gallus (gallus (fo	owl) - bre	eeding fl	ocks, un	specifie	d - at far	m - Sur	veillance								
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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S. Muenchen										(Gallus ga	allus (fo	vI) - at fa	arm - Su	rveillanc	е									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													5												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	5	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	5	1	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	5	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	5	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	5	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	5	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	5	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	5	1	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0		
Penicillins - Ampicillin	4	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	5	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	5	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Muenchen in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Muenchen							, , , , , , , , , , , , , , , , , , ,		Gallus ga									es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													8												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	8	0	0	0	0	0	0	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	8	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	8	3	0	0	0	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	8	1	0	4	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	8	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	1	0	0	0	0	0		
Trimethoprim	2	8	2	0	0	0	0	0	0	6	0	0	0	0	0	0	2	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	8	0	0	0	0	0	0	0	0	0	0	3	1	3	1	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	8	0	0	0	0	0	0	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	8	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	8	5	0	0	0	0	0	0	0	2	1	0	0	0	0	5	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	8	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	2	1	0		
Cephalosporins - Ceftazidim	2	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Anatum in Gallus gallus (fowl) - laying hens - at farm - Control and eradication programmes - quantitative data [Dilution method]

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S. Anatum								Ga	llus gallu	ıs (fowl)	- laying	hens - a	t farm -	Control a	and erad	lication _l	orogram	mes							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Anatum in Gallus gallus (fowl) - broilers - at farm - Control and eradication programmes - quantitative data [Dilution method]

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S. Anatum								(Gallus ga	llus (fow	/l) - broil	ers - at f	arm - Co	ontrol an	d eradic	ation pro	ogramm	es							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													4												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	4	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	4	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	4	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	4	1	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	4	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0		
Cephalosporins - Ceftazidim	2	4	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Haifa in Turkeys - at farm - Control and eradication programmes - quantitative data [Dilution method]

S. Haifa							· ·	<u> </u>		Turkeys	s - at far	m - Con	trol and	eradicati	on progi	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													3												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	3	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	3	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	3	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	3	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		
Cephalosporins - Ceftazidim	2	3	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Coeln 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. Coeln							· ·	<u> </u>		Turkeys	s - at far	m - Con	trol and	eradicati	on progi	rammes									
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Brandenburg 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. Brandenburg		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													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Antimicrobial susceptibility testing of S. Montevideo 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. Montevideo		Gallus gallus (fowl) - breeding flocks, unspecified - at farm - Surveillance																							
Isolates out of a monitoring program (yes/no)																									
Number of isolates available in the laboratory													1												
Antimicrobials:	Cut-off value	N	n	<=0.008	0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1024	2048	>2048	lowest	highest
Amphenicols - Chloramphenicol	16	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Amphenicols - Florfenicol	16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Tetracyclines - Tetracycline	8	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
Fluoroquinolones - Ciprofloxacin	0.06	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Quinolones - Nalidixic acid	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Trimethoprim	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Streptomycin	32	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Gentamicin	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aminoglycosides - Kanamycin	8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Penicillins - Ampicillin	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Cephalosporins - Cefotaxim	0.5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sulphonamides	256	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
Cephalosporins - Ceftazidim	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table Cut-off values for antibiotic resistance testing of Salmonella in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.06	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		32	
	Gentamicin		2	
Cephalosporins	Cefotaxim		0.5	
Penicillins	Ampicillin		4	

Table Cut-off values for antibiotic resistance testing of Salmonella in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.06	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		32	
	Gentamicin		2	
Cephalosporins	Cefotaxim		0.5	
Penicillins	Ampicillin		4	

Table Cut-off values for antibiotic resistance testing of Salmonella in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.06	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		32	
	Gentamicin		2	
Cephalosporins	Cefotaxim		0.5	
Penicillins	Ampicillin		4	

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

As noted in previous years, in Italy there are no official data on the incidence of Campylobacter infection; some studies and EU baseline study 2008, indicate that poultry meat is one of the major vehicles of human infection. From the veterinary point of view no structured national sampling programmes are in place for monitoring the contamination in animals and food.

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

In Italy, data regarding the control activities for Campylobacter contamination in animal and food in 2010 were very poor and do not reflect the true situation. In food percentage of positivity is very low; only 1,09% (78/7096) of samples tested were positive. The highest proportion of positive samples were reported for fresh meat (6.25%) and meat preparation. In Fresh meat Campylobacter coli were the principal strain isolated (44.8%) followed by Campylobacter jejuni . In milk the prevalence was very low. In poultry flock, including old day chicks and broilers stages, clinical investigation detected Campylobacter in 36,10% followed by pigs. Both in cattle and in sheep the prevalence detected were very low. In animals principal Campylobacter species isolated were Campylobacter jejuni followed Campylobacter coli.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

Data on contamination and prevalence levels in animals and food are low and there arenat harmonized control at national level and the incidence data on human Campylobacteriosis in Italy are not available because this infection is not notifiable. This situation does not allow further evaluation.

Recent actions taken to control the zoonoses

There is no action taken in Italy for the control of this zoonoses. As there are currently harmonized controls at national level, it is difficult to establish the true prevalence of Campylobacter in animal and food.

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2.2.2 Campylobacter in foodstuffs

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling		Single		34	0					
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling		Single		135	0					
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling		Single		19	0					
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and eradication programmes - official sampling		Batch		10	0					
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Single		83	2					2
Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP and own checks		Batch	25 g	12	0					
Cheeses, made from unspecified milk or other animal milk - unspecified - Survey - national survey		Single		10	0					
Dairy products (excluding cheeses) - at processing plant - Control and eradication programmes - official sampling		Batch		10	0					

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Dairy products (excluding cheeses) - unspecified - Surveillance - HACCP and own checks		Batch	25 g	34	0					
Live bivalve molluscs - unspecified - Control and eradication programmes - official sampling		Batch		39	0					
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Survey - national survey		Single		17	0					
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling		Single		26	0					
Meat from bovine animals - minced meat - unspecified - Control and eradication programmes - official sampling		Single		58	0					
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling		Single		14	1	1				
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling (batch)		Batch		5	2					2
Meat from other animal species or not specified - fresh - at processing plant - Survey - national survey		Batch		22	0					
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling		Batch		20	2					2

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from other animal species or not specified - fresh - at retail - Surveillance - HACCP and own checks		Single		16	0					
Meat from other animal species or not specified - fresh - at retail - Survey - national survey		Batch		15	0					
Meat from other animal species or not specified - fresh - unspecified - Surveillance - HACCP and own checks		Single		52	0					
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling		Single		14	1	1				
Meat from other animal species or not specified - meat preparation - at retail - Control and eradication programmes - official sampling (batch)		Batch		11	0					
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		104	2	1				2
Meat from other animal species or not specified - meat preparation - unspecified - Surveillance - HACCP and own checks		Single		16	0					
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling		Single		48	0					
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling		Single		22	0					

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling (batch)		Batch		57	0					
Meat from other animal species or not specified - meat products - unspecified - Control and eradication programmes - official sampling		Single		140	2					2
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks		Single		27	0					
Meat from other animal species or not specified - minced meat - unspecified - Control and eradication programmes - official sampling		Single		36	0					
Meat from other animal species or not specified - offal - unspecified - Control and eradication programmes - official sampling		Single		14	1	1				
Meat from other animal species or not specified - offal - unspecified - Control and eradication programmes - official sampling (batch)		Batch		3	1					1
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling		Single		16	0					
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		18	0					
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling (batch)		Batch		13	0					

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling		Single		244	1					1
Meat from pig - minced meat - unspecified - Control and eradication programmes - official sampling		Single		41	1					1
Milk from other animal species or unspecified - at farm - animal sample - Clinical investigations		Single		44	0					
Milk from other animal species or unspecified - at farm - animal sample - Control and eradication programmes - official sampling		Single		539	4		4			
Milk from other animal species or unspecified - at farm - animal sample - Surveillance - HACCP and own checks		Single		79	0					
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Single		2514	14	1	13			
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (batch)		Batch		11	0					
Milk from other animal species or unspecified - at processing plant - Survey - national survey		Batch		157	0					
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling		Single		229	2		2			
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling		Single		257	1					1

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling (batch)		Batch		95	1		1			
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks		Single		118	1					1
Milk from other animal species or unspecified - unspecified - Survey - national survey		Single		25	0					
Milk, cows' - at catering - Control and eradication programmes - official sampling		Single		14	0					
Milk, cows' - at farm - animal sample - Surveillance - HACCP and own checks		Single		15	0					
Milk, cows' - unspecified - Control and eradication programmes - official sampling		Single		699	2		1			2
Milk, cows' - unspecified - Control and eradication programmes - official sampling (batch)		Batch		51	0					
Milk, goats' - unspecified - Control and eradication programmes - official sampling		Single		10	0					
Other processed food products and prepared dishes - at catering - Surveillance - HACCP and own checks		Single		11	0					
Other processed food products and prepared dishes - at processing plant - Control and eradication programmes - official sampling		Single		20	0					

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Other processed food products and prepared dishes - at retail - Control and eradication programmes - official sampling		Single		18	0					
Other processed food products and prepared dishes - unspecified - Control and eradication programmes - official sampling		Single		34	2					2
Vegetables - at processing plant - Control and eradication programmes - official sampling		Batch		71	0					
Vegetables - unspecified - Survey - national survey		Single		25	8					8

Comments:

- ¹⁾ The same sample results positive for more than one serotypes
- ²⁾ The same sample results positive for more than one serotypes

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from broilers (Gallus gallus) - fresh - at catering - Control and eradication programmes - official sampling		Single		17	0					
Meat from broilers (Gallus gallus) - fresh - at processing plant - Control and eradication programmes - official sampling		Single		7	1					1
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Batch		30	8		8			
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Single		28	0					
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling		Batch		6	1					1
Meat from broilers (Gallus gallus) - fresh - unspecified - Control and eradication programmes - official sampling (single)		Single		24	0					
Meat from broilers (Gallus gallus) - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		5	1					1
Meat from duck - fresh - unspecified - Control and eradication programmes - official sampling		Single		3	3	1	2			2
Meat from poultry, unspecified - fresh - at catering - Surveillance - HACCP and own checks		Single		6	6	1	1			4

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from poultry, unspecified - fresh - unspecified - Control and eradication programmes - official sampling		Single		40	5	1	2			2
Meat from turkey - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		22	0					
Meat from turkey - meat products - unspecified - Control and eradication programmes - official sampling		Single		1	1					1
Meat from turkey - minced meat - unspecified - Control and eradication programmes - official sampling		Single		8	1	1				1

Comments:

Table Campylobacter in poultry meat

¹⁾ The same sample results positive for more than one serotype

²⁾ The same sample results positive for more than one serotype

2.2.3 Campylobacter in animals

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Birds - pet animals - unspecified - Survey - national survey		Animal	2	0					
Birds - wild - Clinical investigations		Animal	53	0					
Birds - wild - unspecified - Control and eradication programmes - official sampling		Animal	29	0					
Bison - unspecified - Clinical investigations		Animal	2	0					
Camels - unspecified - Clinical investigations		Animal	3	0					
Cats - pet animals - unspecified - Clinical investigations		Animal	7	0					
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	3	0					
Cats - pet animals - unspecified - Control and eradication programmes - official sampling - objective sampling		Animal	1	0					
Cats - pet animals - unspecified - Surveillance - HACCP and own checks		Animal	2	0					
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling		Holding	3	0					
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	2	0					

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Cattle (bovine animals) - breeding bulls - Clinical investigations		Herd	4	0					
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations		Animal	3	0					
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks		Animal	12	0					
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - animal sample - Clinical investigations		Herd	6	1	1				
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations		Herd	2	0					
Cattle (bovine animals) - dairy cows - at farm - animal sample - Clinical investigations		Animal	1	0					
Cattle (bovine animals) - dairy cows - unspecified - Control and eradication programmes - official sampling		Animal	10	0					
Cattle (bovine animals) - meat production animals - fattening cows - at farm - animal sample - Clinical investigations		Herd	5	3		2			1
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		Herd	15	4		4			
Cattle (bovine animals) - meat production animals - unspecified - Surveillance - HACCP and own checks		Animal	1	0					

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Cattle (bovine animals) - unspecified - at farm - animal sample - Clinical investigations		Animal	132	0					
Cattle (bovine animals) - unspecified - at farm - animal sample - Clinical investigations (herd)		Herd	23	2		1			1
Cattle (bovine animals) - unspecified - at farm - animal sample - Clinical investigations (holding)		Holding	14	0					
Cattle (bovine animals) - unspecified - at farm - animal sample - Control and eradication programmes - official sampling		Animal	1172	0					
Cattle (bovine animals) - unspecified - at farm - animal sample - Surveillance - HACCP and own checks		Animal	91	0					
Cattle (bovine animals) - unspecified - at farm - animal sample - Survey - national survey		Animal	233	0					
Cattle (bovine animals) - unspecified - unspecified - Clinical investigations		Animal	14	0					
Cattle (bovine animals) - unspecified - unspecified - Clinical investigations (herd)		Herd	32	6	1	4	1		
Cattle (bovine animals) - unspecified - unspecified - Control and eradication programmes - official sampling		Animal	303	0					
Cattle (bovine animals) - unspecified - unspecified - Surveillance - HACCP and own checks		Animal	27	0					
Dogs - pet animals - Clinical investigations		Animal	30	0					

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	15	0					
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling - objective sampling		Animal	2	0					
Dogs - pet animals - unspecified - Surveillance - HACCP and own checks		Animal	1	0					
Dogs - pet animals - unspecified - Survey - national survey		Animal	12	0					
Ducks - at farm - animal sample - Clinical investigations		Herd	3	1					1
Ducks - at farm - animal sample - Control and eradication programmes - official sampling		Animal	2	1					1
Ferrets - wild - unspecified - Clinical investigations		Animal	13	0					
Foxes - wild - unspecified - Clinical investigations		Animal	16	0					
Gallus gallus (fowl) - at farm - animal sample - Clinical investigations		Holding	1	0					
Gallus gallus (fowl) - broilers - at farm - animal sample - Clinical investigations		Herd	10	5					5
Gallus gallus (fowl) - broilers - unspecified - Clinical investigations		Animal	3	0					
Gallus gallus (fowl) - broilers - unspecified - Clinical investigations (herd)		Herd	7	2					2

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Gallus gallus (fowl) - laying hens - Clinical investigations		Herd	10	5	1	1			3
Gallus gallus (fowl) - unspecified - Clinical investigations		Animal	2	0					
Gallus gallus (fowl) - unspecified - Control and eradication programmes - official sampling		Animal	2	0					
Gallus gallus (fowl) - unspecified - day-old chicks - unspecified - Clinical investigations		Herd	1	1					1
Geese - unspecified - Clinical investigations		Herd	3	1					1
Goats - Clinical investigations		Herd	64	0					
Goats - at farm - animal sample - Clinical investigations		Holding	2	0					
Goats - at farm - animal sample - Clinical investigations (animal)		Animal	1	0					
Goats - at farm - animal sample - Control and eradication programmes - official sampling		Animal	3	0					
Goats - at farm - animal sample - Survey - national survey		Animal	16	3					3
Goats - at processing plant - Control and eradication programmes - official sampling		Animal	1	0					
Guinea fowl - at farm - animal sample - Clinical investigations		Herd	1	0					
Guinea pigs - pet animals - unspecified - Clinical investigations		Animal	3	0					

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Hedgehogs - wild - unspecified - Clinical investigations		Animal	13	0					
Marten - wild - unspecified - Clinical investigations		Animal	23	0					
Monkeys - zoo animal - unspecified - Clinical investigations		Animal	109	3	1				2
Ostriches - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling		Holding	1	1					1
Ostriches - unspecified - Clinical investigations		Animal	11	0					
Other animals - unspecified - Clinical investigations		Animal	70	1					1
Partridges - unspecified - Clinical investigations		Animal	6	0					
Pheasants - unspecified - Clinical investigations		Animal	2	0					
Pheasants - unspecified - Surveillance - HACCP and own checks		Animal	1	0					
Pigeons - Clinical investigations		Animal	20	0					
Pigeons - Survey - national survey		Animal	33	0					
Pigeons - unspecified - Control and eradication programmes - official sampling		Animal	137	7		7			
Pigs - Clinical investigations		Herd	8	4		1			3
Pigs - at farm - animal sample - Clinical investigations		Holding	2	1	1				

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	Thermophilic Campylobact er spp., unspecified
Pigs - at farm - animal sample - Survey - national survey		Animal	1	0				
Poultry, unspecified - at farm - animal sample - Clinical investigations		Animal	14	0				
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling		Animal	2	0				
Rabbits - at farm - animal sample - Clinical investigations		Animal	5	0				
Rabbits - at farm - animal sample - Survey - national survey		Animal	3	1				1
Rabbits - unspecified - Clinical investigations		Herd	3	0				
Rabbits - unspecified - Control and eradication programmes - official sampling		Animal	1	0				
Rabbits - unspecified - Surveillance - HACCP and own checks		Animal	1	0				
Raccoon dogs - wild - unspecified - Clinical investigations		Animal	2	1				1
Ratites (ostrich, emu, nandu) - unspecified - Clinical investigations		Animal	4	1				1
Sheep - Clinical investigations		Animal	130	8				8
Sheep - Clinical investigations (herd)		Herd	233	1				1
Sheep - Control and eradication programmes - official sampling		Animal	2	0				

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Sheep - at farm - animal sample - Clinical investigations		Holding	10	1					1
Sheep - at farm - animal sample - Clinical investigations (holding)		Holding	2	0					
Sheep - at farm - animal sample - Survey - national survey		Animal	5	0					
Sheep and goats - Surveillance - HACCP and own checks		Animal	9	0					
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	126	17					17
Sheep and goats - unspecified - Control and eradication programmes - official sampling		Animal	2	2					2
Solipeds, domestic - donkeys - at farm - animal sample - Control and eradication programmes - official sampling - objective sampling		Herd	3	2		1			1
Solipeds, domestic - horses - Clinical investigations		Holding	3	0					
Solipeds, domestic - horses - Clinical investigations (herd)		Herd	5	0					
Turtles - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	1	0					
Water buffalos - at farm - animal sample - Control and eradication programmes - official sampling		Herd	8	1		1			
Water buffalos - at farm - animal sample - Survey - national survey		Animal	80	7					7

	Source of information	Sampling unit	Units tested	Total units positive for Campylobact er	C. coli	C. jejuni	C. lari	Thermophilic Campylobact er spp., unspecified
Wild animals - unspecified - Clinical investigations		Animal	21	0				
Wild animals - unspecified - Control and eradication programmes - official sampling		Animal	27	2				2
Wild animals - unspecified - Survey - national survey		Animal	41	0				
Wild boars - unspecified - Clinical investigations		Animal	107	0				
Zoo animals, all - unspecified - Clinical investigations		Animal	7	0				

2.2.4 Antimicrobial resistance in Campylobacter isolates

A. Antimicrobial resistance in Campylobacter jejuni and coli in cattle

Sampling strategy used in monitoring
Procedures for the selection of isolates for antimicrobial testing

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Table Cut-off values used for antimicrobial susceptibility testing of C. coli in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Tetracyclines	Tetracycline		2	
Fluoroquinolones	Ciprofloxacin		1	
Aminoglycosides	Gentamicin		2	
	Streptomycin		4	
Macrolides	Erythromycin		16	

Table Cut-off values used for antimicrobial susceptibility testing of C. coli in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Tetracyclines	Tetracycline		2	
Fluoroquinolones	Ciprofloxacin		1	
Aminoglycosides	Gentamicin		2	
	Streptomycin		4	
Macrolides	Erythromycin		16	

Table Cut-off values used for antimicrobial susceptibility testing of C. coli in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Tetracyclines	Tetracycline		2	
Fluoroquinolones	Ciprofloxacin		1	
Aminoglycosides	Gentamicin		2	
	Streptomycin		4	
Macrolides	Erythromycin		16	

Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Tetracyclines	Tetracycline		2	
Fluoroquinolones	Ciprofloxacin		1	
Aminoglycosides	Gentamicin		1	
	Streptomycin		2	
Macrolides	Erythromycin		4	

Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)		
		Standard	Resistant >	Resistant <=		
Tetracyclines	Tetracycline		2			
Fluoroquinolones	Ciprofloxacin		1			
Aminoglycosides	Gentamicin		1			
	Streptomycin		2			
Macrolides	Erythromycin		4			

Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)		
		Standard	Resistant >	Resistant <=		
Tetracyclines	Tetracycline		2			
Fluoroquinolones	Ciprofloxacin		1			
Aminoglycosides	Gentamicin		1			
	Streptomycin		2			
Macrolides	Erythromycin		4			

2.3 LISTERIOSIS

2.3.1 General evaluation of the national situation

A. Listeriosis general evaluation

History of the disease and/or infection in the country

In Italy Listeriosis in humans regards exclusively infection cases due to Listeria monocytogenes. The notification rate of listeriosis cases in Italy is lower than in EU but during the last five years shows a

increasing trend, behaviour shared also by other MSs.

Data on listeriosis cases in animals are not collected.

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

According to the data received by the information system, in 2010 the same volume of samples was tested for Listeria monocytogenes in Italy (from 10973 in 2009 to 10644 in 2010).

RTE products resulted the most contaminated category (4.1%) represented mostly by the following group of foods: meat products (6.2%), cheeses (5.3%), raw milk samples (2.1%), fishery products and fish preparations (7.3%) and gastronomic preparations (4.9%).

In general the non compliant rates for fishery and meat products are comparable to the values reported by EFSA in 2009 (respectively 7.7% and 6.8%).

Only 15 samples, represented by meat products (2.1% of the positive RTE samples), cheeses (0.7%) fishery products and fish preparations (0.5%) and vegetable (0,1% of the positive RTE samples), contain a load of Listeria monocytogenes higher than 100 CFU/g, exceeding the microbiological criteria stated in the Regulation (EC) n. 2073/2005.

Results from samplings performed in 2010 are not comparable with the data elaborated for the previous years because the criteria of reporting changed and data focus specifically on Listeria monocytogenes. As reported in 2009 also for other EU Member countries, in Italy Listeria monocytogenes sporadically causes disease mostly in susceptible individuals, with a high fatality rate.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

The importance of primary production as part of Listeria monocytogenes contamination routes is still not clear: studies performed in other countries have demonstrated the presence of high prevalence (up to 65%) in farm environments (soil, silage, floor bedding, water, udder skin and faeces from cattle). The data received by the information system in 2010 are represented by 245 samples from animals (200 from cattles and 45 from sheeps and goats), 5,3% were positive for Listeria monocytogenes. In relation to the deep difference between the sample number collected from cattles and sheeps and goats for this report is not proposed any further evaluation.

However, it is commonly accepted that contaminations by Listeria monocytogenes mostly happen during food production processes: lacks of hygiene and cross-contaminations allow the microorganism to reach the production line, where it survives, adapts and multiplies inside environmental niches, also at refrigeration temperature. A number of different foods can vehicle Listeria monocytogenes to consumers. In particular, ready-to-eat foods that have been processed after the last heat treatment are usually at risk: sliced or grounded ready-to-eat meat products, cheeses from raw milk (mostly soft cheese), smoked and marinated fishery products. Raw meats are also easily contaminated, but a thoroughly cooking process is usually sufficient to inactivate this microorganism.

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Recent actions taken to control the zoonoses

In November 2010 the Decision 2010/678/EU was issued concerning a financial contribution from the Union towards a coordinated monitoring programme on the prevalence of Listeria monocytogenes in certain ready-to-eat foods to be carried out in the Member States. This survey should allow the comparison of Listeria monocytogenes contamination in some RTE food categories in the Community and Member States and the verification of the Community food safety criteria for Listeria monocytogenes. This programme is based on the preliminary assessment performed in 2009 by EFSA and reported in the "Proposed technical specifications for a survey on Listeria monocytogenes in selected categories of ready-to-eat food at retail in the EU".

The monitoring programme focuses on sampling those categories of RTE food in which the highest rates of Listeria monocytogenes contamination have been observed in the European Union: soft and semi-soft cheeses, smoked and gravad fish and heat-treated meat products that are handled after heat treatment. Sampling of the RTE food categories are targeted at retail. This survey will assess the effectiveness of the implementation of Community Listeria monocytogenes criteria and provide information on the exposure of consumers of these RTE food categories to Listeria monocytogenes. Food products will be tested at the end of the shelf-life. In the case of smoked and gravad fish an additional sample will be immediately tested after sampling. Standardised analytical methods for detection and enumeration of Listeria monocytogenes will be adopted in the analyses of samples. Isolates of Listeria monocytogenes are suggested to be archived for the purpose of future typing.

Additional information

The EU monitoring programme on the prevalence of Listeria monocytogenes in certain ready-to-eat foods to be carried out in the Member States (Decision 2010/678/EU) is a community-specific survey that will allow estimation of the Listeria monocytogenes prevalence at the Community level. Therefore a Community-specific number of samples are allocated amongst the Member States in proportion to the size of their human populations. In order to provide data available for the assessment, at national level, of the exposure of consumers to Listeria monocytogenes a supplementary plan has been organised by the Italian National Reference Laboratory for Listeria monocytogenes. According to the criteria stated by the Decision 2010/678/EU, further samples of the selected RTE food categories will be collected in Italy in the same period in proportion to the size of human populations at regional level. The sampling plan and the sample's data collection are supported by a web based information system.

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2.3.2 Listeria in foodstuffs

Table Listeria monocytogenes in milk and dairy products

	Source of information	Sampling unit	Sample weight		Total units positive for L. monocytogen es	Units tested with detection method		Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from cows' milk - unspecified - at processing plant - Control and eradication programmes - official sampling		Single		9	9	9	9	0	0	0
Cheeses made from sheep's milk - unspecified - unspecified - Control and eradication programmes - official sampling		Single		1	1	1	1	0	0	0
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling		Single		11	11	9	9	2	0	2
Cheeses, made from unspecified milk or other animal milk - unspecified - at processing plant - Control and eradication programmes - official sampling		Batch		15	1	14	1	1	0	0
Cheeses, made from unspecified milk or other animal milk - unspecified - at retail - Control and eradication programmes - official sampling		Single		2	2	2	2	0	0	0
Cheeses, made from unspecified milk or other animal milk - unspecified - unspecified - Control and eradication programmes - official sampling		Single		7	6	6	5	1	0	1
Cheeses, made from unspecified milk or other animal milk - unspecified - unspecified - Control and eradication programmes - official sampling (batch)		Batch		9	1	9	1	0	0	0

Table Listeria monocytogenes in milk and dairy products

	Source of information	Sampling unit	Sample weight		Total units positive for L. monocytogen es		l es nresence	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 - unspecified - unspecified - Surveillance - HACCP and own checks		Single		71	71	71	71	0	0	0
Milk from other animal species or unspecified - Control and eradication programmes - official sampling		Single		11	11	11	11	0	0	0
Milk from other animal species or unspecified - Surveillance - HACCP and own checks		Single		1	1	1	1	0	0	0
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Single		54	54	54	54	0	0	0
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks		Batch		7	1	7	1	0	0	0
Other products of animal origin - Control and eradication programmes - official sampling (butter,cream)		Single		2	2	2	2	0	0	0

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es	Units tested with detection method	Listeria monocytogen es presence in x g	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
All foodstuffs - unspecified - Control and eradication programmes - official sampling		Single		6	6	6	6	0	0	0
Fishery products, unspecified - Control and eradication programmes - official sampling		Single		15	15	14	14	1	0	1
Fishery products, unspecified - Control and eradication programmes - official sampling (prepared)		Batch		5	1	0	0	5	0	1
Fishery products, unspecified - unspecified		Single		7	7	7	7	0	0	0
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared)		Single		8	8	8	8	0	0	
Fruits - Control and eradication programmes - official sampling		Single		5	5	5	5	0	0	0
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Clinical investigations		Single		3	3	3	3	0	0	0
Meat from broilers (Gallus gallus) - fresh - Control and eradication programmes - official sampling		Single		16	16	14	14	2	0	2
Meat from other animal species or not specified - at processing plant - Control and eradication programmes - official sampling		Batch		8	3	5	1	3	1	1
Meat from other animal species or not specified - at retail - Control and eradication programmes - official sampling		Batch		25	9	8	4	17	5	0

Table Listeria monocytogenes in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es		Listeria monocytogen es presence in x g	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 - Surveillance - HACCP and own checks		Single		17	12	15	10	2	0	2
Meat from other animal species or not specified - fresh - Survey - national survey		Single		15	15	15	15	0	0	0
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling - objective sampling		Batch		24	3	1	0	23	3	0
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling - objective sampling		Batch		15	10	3	3	12	5	2
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey		Batch		9	1	1	0	8	1	0
Meat from other animal species or not specified - meat products - at retail - Surveillance - HACCP and own checks		Batch		5	1	5	1	0	0	0
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks		Single		20	20	20	20	0	0	0
Meat from other animal species or not specified - minced meat - at retail - Survey - national survey		Single		4	4	4	4	0	0	0
Meat from other animal species or not specified - minced meat - unspecified - Control and eradication programmes - official sampling		Single		15	14	14	13	1	0	1

Table Listeria monocytogenes in other foods

Total units Listeria Units tested Units tested positive for L monocytogen > detection Source of Sampling unit Sample with detection with monocytogen Units tested monocytogen limit but <= es presence method es > 100 information weight enumeration es in x g 100 cfu/g method cfu/q Meat from pig - meat products - at retail - Control and eradication programmes - official sampling -Single 10 10 10 10 0 0 0 suspect sampling Meat from pig - meat products - at retail - Survey -Single 7 7 7 7 0 0 0 national survey Meat from pig - meat products - unspecified -Control and eradication programmes - official 43 43 0 0 Sinale 43 43 0 sampling Meat, mixed meat - meat preparation - Control and 19 0 Sinale 22 19 22 0 0 eradication programmes - official sampling Meat, red meat (meat from bovines, pigs, goats, sheep, horses, donkeys, bison and water buffalos) -Single 14 14 14 14 0 0 Control and eradication programmes - official sampling Meat, red meat (meat from bovines, pigs, goats, sheep, horses, donkeys, bison and water buffalos) -Sinale 17 16 16 15 0 1 minced meat - Control and eradication programmes - official sampling Other processed food products and prepared dishes - Control and eradication programmes - official Single 11 9 11 9 0 0 sampling (gastronomic preparations) Other processed food products and prepared dishes Single 4 4 4 4 0 0 0 - Surveillance - HACCP and own checks Other processed food products and prepared dishes - pasta - at retail - Control and eradication 6 0 0 6 0 Batch 1 1

programmes - official sampling

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es		imonocytoden	with		L. monocytogen es > 100 cfu/g
Other processed food products and prepared dishes - unspecified - Control and eradication programmes - official sampling		Single		7	7	7	7	0	0	0
Other products of animal origin - Control and eradication programmes - official sampling (offals and fat of animal origin)		Single		5	4	5	4	0	0	0
Seeds, dried - unspecified - Surveillance - HACCP and own checks (legumes)		Single		10	10	10	10	0	0	0
Vegetables - unspecified - Control and eradication programmes - official sampling		Single		5	5	5	5	0	0	0
Vegetables - unspecified - Surveillance - HACCP and own checks		Single		47	36	12	0	36	35	1

Comments:

Table Listeria monocytogenes in other foods

¹⁾ the same unit was tested for both methods

2.3.3 Listeria in animals

Table Listeria in animals

	Source of information	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogen es	Listeria spp., unspecified	L. innocua
Canary - unspecified - Survey - national survey		Animal	1	1		1	
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks		Animal	8	0			
Cattle (bovine animals) - Clinical investigations		Animal	78	1		1	
Cattle (bovine animals) - Clinical investigations (Herd)		Herd	24	0			
Cattle (bovine animals) - Surveillance - HACCP and own checks		Animal	39	1	1		
Cattle (bovine animals) - Survey - national survey		Animal	734	48	2	41	5
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling		Animal	13	0			
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling (Herd)		Herd	4	0			
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	5	2	2		
Cattle (bovine animals) - breeding bulls - Surveillance - HACCP and own checks		Animal	2	0			

Table Listeria in animals

	Source of information	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogen es	Listeria spp., unspecified	L. innocua
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations		Animal	1	1	1		
Cattle (bovine animals) - meat production animals - at farm - Clinical investigations		Animal	11	3	3		
Deer - farmed - roe deer - unspecified - Surveillance - HACCP and own checks		Animal	12	0			
Deer - wild - unspecified - Clinical investigations		Animal	3	0			
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	7	0			
Goats - Clinical investigations		Herd	68	2		2	
Goats - at farm - animal sample - Survey - national survey		Animal	5	1		1	
Lamas - zoo animal - Surveillance - HACCP and own checks		Animal	3	0			
Other animals - unspecified - Control and eradication programmes - official sampling		Animal	31	0			
Pigs - at farm - animal sample - Survey - national survey		Animal	1	1		1	
Rabbits - at farm - animal sample - Clinical investigations		Animal	10	0			
Sheep - Clinical investigations		Animal	4	1		1	
Sheep - Clinical investigations (Herd)		Herd	237	11		11	
Sheep - animals under 1 year (lambs) - Clinical investigations		Herd	2	0			

Table Listeria in animals

	Source of information	Sampling unit	Units tested	Total units positive for Listeria	L. monocytogen es	Listeria spp., unspecified	L. innocua
Sheep - at farm - animal sample - Survey - national survey		Animal	2	2		2	
Sheep - at processing plant - Control and eradication programmes - official sampling		Animal	1	1		1	
Sheep and goats - Clinical investigations		Animal	72	1	1		
Sheep and goats - Surveillance - HACCP and own checks		Animal	85	0			
Sheep and goats - at farm - animal sample - Control and eradication programmes - official sampling		Animal	3	1	1		
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	108	8	2	6	
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		Animal	2	2		2	
Water buffalos - at farm - animal sample - Clinical investigations		Animal	3	3		3	
Water buffalos - at farm - animal sample - Control and eradication programmes - official sampling		Herd	1	1		1	
Water buffalos - at farm - animal sample - Survey - national survey		Animal	54	2		1	1

2.4 E. COLI INFECTIONS

2.4.1 General evaluation of the national situation

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 Istituto Superiore Sanità, which is the National Reference Laboratory for 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.

An information flow based on the transposition of the specific European legislation is in progress

laboratory surveillance system on a voluntary base

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.

Notification system in place

Cases of VTEC-associated diarrhea can be reported as "non-salmonella gastroenteritis" laboratory surveillance system on a voluntary base.

History of the disease and/or infection in the country

The HUS trend is quite stable, with 30-40 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 2007, 2008 and 2009 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 dispenser.

The data on intestinal infections are too scanty, since only a few laboratories perform the diagnosis.

Relevance as zoonotic disease

Although not very frequent, the severity of the HUS cases make the zoonosis relevant for public health.

2.4.3 Escherichia coli, pathogenic in foodstuffs

Table VT E. coli in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E coli	Verotoxigenic E. coli (VTEC) - VTEC non- O157	E. coli (VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling		Single		86	0				
Cheeses made from sheep's milk - unspecified - Control and eradication programmes - official sampling		Single		135	0				
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling		Single		16	0				
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling		Single		12	0				
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Single		385	0				
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (FRESH)		Single		16	0				
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared)		Single		17	0				
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling		Single		30	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	E coli	Verotoxigenic E. coli (VTEC) - VTEC non- O157	(VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Meat from bovine animals - fresh - unspecified - Surveillance - HACCP and own checks		Batch		30	0				
Meat from bovine animals - minced meat - unspecified - Control and eradication programmes - official sampling		Single		16	0				
Meat from bovine animals - minced meat - unspecified - Surveillance - HACCP and own checks		Batch		29	0				
Meat from horse - carcass - at slaughterhouse - animal sample - carcass swabs - Control and eradication programmes - official sampling		Single		2	0				
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling		Single		280	0				
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling		Single		11	0				
Meat from other animal species or not specified - fresh - unspecified - Control and eradication programmes - official sampling		Single		10	0				
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey		Batch		14	0				
Meat from other animal species or not specified - meat preparation - at processing plant - Control and eradication programmes - official sampling		Single		130	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	verotoxigenic	Verotoxigenic E. coli (VTEC) - VTEC non- O157	E. coli (VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		299	1	1			
Meat from other animal species or not specified - meat products - unspecified - Control and eradication programmes - official sampling		Single		26	0				
Meat from other animal species or not specified - offal - at processing plant - Control and eradication programmes - official sampling (including viscera and viscera products)		Single		19	0				
Meat from other animal species or not specified - offal - unspecified - Control and eradication programmes - official sampling		Single		24	0				
Meat from pig - fresh - Control and eradication programmes - official sampling		Single		13	0				
Meat from pig - fresh - Control and eradication programmes - official sampling (BATCH)		Batch		12	0				
Meat from pig - fresh - unspecified - Surveillance - HACCP and own checks		Batch		17	0				
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		11	0				
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling		Single		71	0				
Meat from pig - meat products - unspecified - Surveillance - HACCP and own checks		Batch		10	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	verotoxigenic	Verotoxigenic E. coli (VTEC) - VTEC non- O157	E. coli (VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Meat from pig - minced meat - unspecified - Surveillance - HACCP and own checks		Batch	25gr	18	0				
Meat from pig - minced meat - unspecified - Surveillance - HACCP and own checks (batch)		Batch		13	0				
Meat from sheep - fresh - Control and eradication programmes - official sampling		Batch		19	0				
Milk from other animal species or unspecified - Survey - national survey (CURD)		Batch		10	0				
Milk from other animal species or unspecified - at farm - animal sample - Clinical investigations		Single		87	0				
Milk from other animal species or unspecified - at farm - animal sample - Control and eradication programmes - official sampling		Single		462	0				
Milk from other animal species or unspecified - at farm - animal sample - Surveillance - HACCP and own checks		Batch		10	0				
Milk from other animal species or unspecified - at farm - animal sample - Surveillance - HACCP and own checks (single)		Single		35	0				
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Single		290	2	2			
Milk from other animal species or unspecified - at processing plant - Survey - national survey		Single		23	0				
Milk from other animal species or unspecified - at retail - Clinical investigations		Single		12	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	verotoxigenic	Verotoxigenic E. coli (VTEC) - VTEC non- O157	E. coli (VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling		Single		209	1	1			1
Milk from other animal species or unspecified - unspecified - Control and eradication programmes		Single		248	2	2			
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling		Batch		73	0				
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks		Batch		18	0				
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks (single)		Single		87	4	4			
Milk from other animal species or unspecified - unspecified - Survey - national survey		Single		24	0				
Milk, cows' - at catering - Control and eradication programmes - official sampling		Single		14	1	1			
Milk, cows' - at processing plant - Control and eradication programmes - official sampling		Batch		33	0				
Milk, cows' - unspecified - Control and eradication programmes - official sampling		Single		765	1			1	
Milk, cows' - unspecified - Control and eradication programmes - official sampling (DAIRY COWS)		Batch		27	0				

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E coli	Verotoxigenic E. coli (VTEC) - VTEC non- O157	E. coli (VTEC) - VTEC,	Verotoxigenic E. coli (VTEC) - VTEC O157 - eae negative
Milk, cows' - unspecified - Surveillance - HACCP and own checks		Batch		63	0				
Milk, goats' - unspecified - Control and eradication programmes - official sampling		Batch		24	0				
Milk, goats' - unspecified - Control and eradication programmes - official sampling (SINGLE)		Single		10	0				
Milk, goats' - unspecified - Survey - national survey		Single		1004	0				
Milk, sheep's - unspecified - Control and eradication programmes - official sampling (CURD)		Single		15	0				
Milk, sheep's - unspecified - Survey - national survey		Single		153	0				
Other processed food products and prepared dishes - unspecified - unspecified - Control and eradication programmes - official sampling (GASTRONOMIC PREPARATIONS)		Single		18	0				
Vegetables - Control and eradication programmes - official sampling		Single		7	0				
Vegetables - unspecified - Survey - national survey		Single		18	1	1			

Footnote:

No information available on dignostic methods used for of the investigations reported

2.4.4 Escherichia coli, pathogenic in animals

A. Verotoxigenic Escherichia coli in cattle (bovine animals)

Control program/mechanisms

The control program/strategies in place

No monitoring system in place

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Ficali	Verotoxigenic E. coli (VTEC) - VTEC non- O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Birds - wild - unspecified - Clinical investigations		Animal		15	0			
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		Herd		42	4	4		
Cattle (bovine animals) - dairy cows - unspecified - Control and eradication programmes - official sampling		Animal		24	0			
Cattle (bovine animals) - unspecified - Clinical investigations		Animal		14	0			
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling		Animal		26	14			14
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling		Animal		29	3			3
Gallus gallus (fowl) - at farm - animal sample - Clinical investigations		Flock		18	0			
Goats - at farm - animal sample - Clinical investigations		Herd		16	0			
Rabbits - pet animals - at retail - Clinical investigations		Animal		12	0			
Reptiles - unspecified - Clinical investigations		Animal		12	0			
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		Animal		21	0			
Water buffalos - at farm - animal sample - Clinical investigations		Herd		10	0			

Table VT E. coli in animals

Verotoxigenic Verotoxigenic Total units positive for E. coli E. coli E. coli Source of Sampling unit Sample Units tested Verotoxigenic (VTEC) -(VTEC) -(VTEC) information weight `VTEĆ, E. coli VTEC non-VTEC 0157 (VTEC) O157 unspecified Water buffalos - at farm - animal sample - Control and eradication programmes - official sampling Herd 2 1 1 Water buffalos - at farm - animal sample - Survey -Animal 4 1 national survey Wild boars - wild - unspecified - Control and Animal 15 0 eradication programmes - official sampling

Footnote:

No information available on dignostic methods used for of the investigations reported

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).

Province of Pescara (2006/169/CE);

Emilia Romagna Region (2007/174/CE);

Friuli-Venezia Giulia Region (2006/290/CE);

Provinces of Bergamo, Lecco, Sondrio (2003/467/CE), Como (2005/28/CE);

Province of Ascoli Piceno in Marche Region (2003/467/CE);

Provinces of Novara, Verbania (2007/174/CE), Vercelli (draft 04/12/2007) in Piemonte Region;

Bolzano, Trento provinces (2003/467/CE);

Provinces of Grosseto (2004/230/CE), Prato (2005/28/CE), Livorno, Lucca, Siena (2007/174/CE), Pisa,

Pistoia (draft 04/12/2007) in Toscana Region;

Province of Oristano (2009/342/CE);

Veneto Region (2008/404/CE);

Lombardia and Toscana Regions, provinces of Cagliari, Medio-Campidano, Ogliastra and Olbia-Tempio (2010/391/CE);

Provinces of Rieti and Viterbo (2011/277/CE).

Monitoring system

Frequency of the sampling

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.

Single skin test According to EC legislation for OTF regions; almost annually for the remaining regions.

Type of specimen taken: limph nodes and organs from TB lesions at abbatoir. 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 limph nodes coming from the active surveillance carried out in the slaughterhouses.

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

Italy - 2010 Report on trends and sources of zoonoses

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 and Bolzano province.

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 TB outbreak Mantoux test is carried out on the farm workers and family member.

Suggestions to the Community 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 (Update of Ordinanza Ministeriale 14-11-2006 in progress).

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 pastorization.

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

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. Molecular identification and subtyping of Mycobacterium bovis is performed by in-house standardized methods (Boniotti et al. 2009, J. Clin. Microbiol. 47:636-644).

	Source of information	Sampling unit	Units tested	Total units positive for Mycobacteriu m	M. bovis	M. tuberculosis	Mycobacteriu m spp., unspecified	Mycobacteriu m, atypical
Badgers - wild - unspecified - Clinical investigations		Animal	1	0				
Birds - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	3	0				
Birds - wild - unspecified - Clinical investigations		Animal	10	0				
Cantabrian chamois - wild - unspecified - Control and eradication programmes - official sampling		Animal	150	3				3
Cats - pet animals - unspecified - Clinical investigations		Animal	1	0				
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	2	0				
Cats - pet animals - unspecified - Survey - national survey		Animal	1	0				
Cats - pet animals - unspecified - Survey - national survey (or dogs)		Animal	8	0				
Deer - farmed - roe deer - unspecified - Clinical investigations		Animal	3	0				
Deer - wild - fallow deer - unspecified - Clinical investigations		Animal	2	1			1	
Deer - wild - roe deer - unspecified - Clinical investigations		Animal	2	0				
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling		Animal	202	3				3

Table Tuberculosis in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Mycobacteriu m	M. bovis	M. tuberculosis	Mycobacteriu m spp., unspecified	Mycobacteriu m, atypical
Deer - wild - roe deer - unspecified - Survey - national survey		Animal	2	0				
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	44	0				
Dogs - pet animals - unspecified - Clinical investigations		Animal	1	0				
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	1	0				
Ducks - unspecified - Survey - national survey		Animal	1	0				
Elephants - zoo animals - unspecified - Clinical investigations		Animal	3	0				
Gallus gallus (fowl) - broilers - at farm - animal sample - Clinical investigations		Herd	3	0				
Gallus gallus (fowl) - laying hens - at farm - animal sample - Clinical investigations		Herd	1	1			1	
Gallus gallus (fowl) - unspecified - Clinical investigations		Animal	1	1			1	
Gallus gallus (fowl) - unspecified - Clinical investigations (holding)		Holding	1	1			1	
Goats - at farm - animal sample - Clinical investigations		Herd	2	0				
Goats - at farm - animal sample - Control and eradication programmes - official sampling		Herd	20	0				
Hares - wild - at farm - animal sample - Clinical investigations		Animal	3	0				

Table Tuberculosis in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Mycobacteriu m	M. bovis	M. tuberculosis	Mycobacteriu m spp., unspecified	Mycobacteriu m, atypical
Hares - wild - unspecified - Control and eradication programmes - official sampling		Animal	1	0				
Hedgehogs - wild - unspecified - Clinical investigations		Animal	1	0				
Parrots - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	2	0				
Pigeons - at farm - animal sample - Clinical investigations		Animal	1	0				
Pigs - at farm - animal sample - Clinical investigations		Animal	3	0				
Pigs - at farm - animal sample - Survey - national survey		Animal	483	0				
Pigs - unspecified - Clinical investigations		Herd	1	0				
Pigs - unspecified - Control and eradication programmes - official sampling		Animal	1	0				
Poultry, unspecified - at farm - animal sample - Clinical investigations		Animal	2	0				
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling		Animal	1	0				
Rabbits - at farm - animal sample - Survey - national survey		Animal	1	0				
Rats - wild - at farm - animal sample - Survey - national survey		Animal	1	0				
Rodents - wild - unspecified - Control and eradication programmes - official sampling		Animal	1	0				

Table Tuberculosis in other animals

	Source of information	Sampling unit	I I INITS TESTER	Total units positive for Mycobacteriu m	M. bovis	M. tuberculosis	Mycobacteriu m spp., unspecified	Mycobacteriu m, atypical
Sheep - unspecified - Clinical investigations		Holding	2	0				
Water buffalos - unspecified - Clinical investigations		Herd	5	1	1			
Wild animals - unspecified - Control and eradication programmes - official sampling		Animal	2	0				
Wild boars - at farm - animal sample - Survey - national survey		Animal	15	0				
Wild boars - farmed - at farm - animal sample - Control and eradication programmes - official sampling (Data on animals-Community co-financed eradication programmes)		Animal	312498	311			311	
Wild boars - farmed - at farm - animal sample - Control and eradication programmes - official sampling (Data on herds-Community co-financed eradication programmes)		Herd	2022	22			22	
Wild boars - unspecified - Clinical investigations		Animal	1	0				
Wild boars - unspecified - Control and eradication programmes - official sampling		Animal	144	10			10	
Wild boars - wild - unspecified - Clinical investigations		Animal	354	3			3	
Wild boars - wild - unspecified - Survey - national survey		Animal	233	8	3		5	

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.

	Total number of herds								Indicators	
Region		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	% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	4608	3187	2828	5	3	0	0	88.74	.18	.11
Basilicata	2905	2878	2864	18	10	1	5.56	99.51	.63	.35
Calabria	7494	6447	6415	24	24	2	8.33	99.5	.37	.37
Campania	12323	8901	8751	33	23	4	12.12	98.31	.38	.26
Lazio	11475	7331	7284	11	5	3	27.27	99.36	.15	.07
Liguria	1501	1000	998	2	2	0	0	99.8	.2	.2
Marche	4683	1683	1683	0	0	0	N.A.	100	0	0
Molise	3015	2382	2381	9	9	0	0	99.96	.38	.38
Piemonte	14959	9846	9846	9	6	5	55.56	100	.09	.06
Puglia	4416	4191	4191	17	14	3	17.65	100	.41	.33
Sardegna	3991	3808	3780	4	3	0	0	99.26	.11	.08
Sicilia	10715	10301	10287	389	289	0	0	99.86	3.78	2.81
Umbria	3780	7	7	2	2	0	0	100	28.57	28.57

Table Bovine tuberculosis - data on herds - Community co-financed eradication programmes

Valle d'Aosta/Vallée d'Aoste	1154	1151	1151	15	2	1	6.67	100	1.3	.17
Total:	87019	63113	62466	538	392	19	3.53	98.97	.86	.63

Comments:

¹⁾ N.A.

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.

	Total number of animals					Slaugh	ntering	Indic	ators
Region		Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	60747	53779	48408	48408	180	180	180	90.01	.37
Basilicata	89331	83313	83144	83144	275	280	280	99.8	.33
Calabria	114698	106281	105951	63625	178	200	205	99.69	.17
Campania	193677	170956	169763	169763	566	569	609	99.3	.33
Lazio	233252	209326	208716	208716	215	215	224	99.71	.1
Liguria	15429	13426	13348	10353	0	0	0	99.42	0
Marche	49204	42144	41993	1679	0	0	0	99.64	0
Molise	48537	44172	44142	44142	16	16	16	99.93	.04
Piemonte	784541	524528	508968	508968	499	266	311	97.03	.1
Puglia	179416	177021	177021	176683	239	239	293	100	.14
Sardegna	115582	96039	94741	94741	6	6	6	98.65	.01
Sicilia	373669	358420	357133	357133	3091	3028	5608	99.64	.87
Umbria	62517	3940	3940	3940	2	2	2	100	.05

Table Bovine tuberculosis - data on animals - Community co-financed eradication programmes

Valle d'Aosta/Vallée d'Aoste	38285	31032	31032	31032	2	2	24	100	.01
Total:	2358885	1914377	1888300	1802327	5269	5003	7758	98.64	.28

Comments:

¹⁾ N.A.

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.

	Status of herds and animals under the programme													
		r of herds and	[1-1-			Not free or no	t officially free		Free or of	ficially free	Fr		Offi-i-	lly from
		under the amme	Unkr	nown	Last chec	ck positive	Last chec	k negative	suspe		Fr	ee 	Officia	lly free
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	3187	53779	0	0	1	51	176	2845	187	2706	0	0	2823	48177
Basilicata	2878	83313	14	169	4	284	4	125	0	0	0	0	2856	82735
Calabria	6338	106242	0	0	6	58	26	781	9	219	0	0	6297	105184
Campania	8860	170493	147	1153	12	350	53	789	1	14	0	0	8647	168187
Lazio	7331	204798	0	0	2	218	12	267	3	143	0	0	7314	204170
Liguria	1010	13426	2	3	0	0	0	0	3	236	0	0	1005	13187
Marche	1683	42144	0	0	0	0	0	0	0	0	0	0	1683	42144
Molise	2382	44172	1	30	5	70	4	93	1	50	0	0	2371	43929
Piemonte	10338	533406	0	0	6	652	0	0	0	0	0	0	10332	532754
Puglia	4191	136023	0	0	1	3	2	227	1	13	0	0	4187	135780
Sardegna	3821	96276	6	555	0	0	12	932	22	743	0	0	3781	94046
Sicilia	9995	354480	1	6	179	10908	515	22917	46	3236	0	0	9254	317413
Umbria	1951	49366	0	0	0	0	0	0	0	0	0	0	1951	49366

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	1151	31032	0	0	2	147	15	379	0	0	0	0	1134	30506
Total:	65116	1918950	171	1916	218	12741	819	29355	273	7360	0	0	63635	1867578

Comments:

¹⁾ N.A.

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.

	Total number of	f existing bovine	Officially f	ree herds	Infecte	d herds	Routine tube	rculin testing	Number of tuberculin tests carried out before the introduction	Number of animals with suspicious lesions of	Number of animals detected
Region	Herds	Animals	Number of herds	%	Number of herds	%	Interval between routine tuberculin tests	Number of animals tested	into the herds (Annex A(I)(2)(c) third indent (1) of Directive 64/432/EEC)	tuberculosis examined and submitted to histopathological and bacteriological	positive in bacteriological examination
Ascoli Piceno	1657	13984	617	37.24	0	0	every two years	4108	213	0	0
Bolzano-Bozen	8433	138335	100	1.19	1	.01	no routine test	15153	0	13	1
Emilia-Romagna	7042	497411	7036	99.91	3	.04	every two years	267766	28639	18	10
Friuli-Venezia Giulia	2532	94555	2532	100	0	0	no routine test	0	9565	0	0
Lombardia	11085	1192194	11085	100	4	.04	every two years	571189	31915	13	4
Pescara	818	13417	818	100	0	0	every two years	6770	0	0	0
Piemonte 1)	1015	21159	1015	100	0	0	every two years	11711	1531	0	0
Sardegna 2)	5402	153328	5401	99.98	0	0	every two years	135293	133	0	0
Toscana	998	31832	998	100	0	0	every four years	31832	101	0	0
Trento	1513	44894	1513	100	0	0	once a year	38554	3356	0	0
Veneto	7470	336534	7467	99.96	3	.04	every three years	0	0	2	2
Total:	47965	2537643	38582	80.44	11	.02	N.A.	1082376	75453	46	17

Table Bovine tuberculosis in countries and regions that do not receive Community co-financing for eradication programmes

Comments:

- ¹⁾ Novara, Verbano-Cusio-Ossola, Vercelli
- ²⁾ Cagliari, Medio Campidano, Ogliastra, Olbia-Tempio, Oristano
- ³⁾ N.A.

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

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

2.6.2 Brucella in foodstuffs

Table Brucella in food

	Source of information	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis	Brucella spp., unspecified
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling - objective sampling		Single	13	0				
Cheeses, made from unspecified milk or other animal milk - unspecified - at processing plant - Control and eradication programmes - official sampling		Single	260	0				
Cheeses, made from unspecified milk or other animal milk - unspecified - at retail - Control and eradication programmes - official sampling		Single	24	0				
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Batch	11	0				
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (single)		Single	279	0				
Milk, cows' - at processing plant - Clinical investigations		Single	25	0				
Milk, cows' - at processing plant - Control and eradication programmes - official sampling		Single	556	0				
Milk, cows' - unspecified - Control and eradication programmes - official sampling		Single	10	0				

Table Brucella in food

	Source of information	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis	Brucella spp., unspecified
Sweets - unspecified - Survey - national survey (cakes)		Single	15	0				

2.6.3 Brucella in animals

A. Brucella abortus in bovine animals

Results of the investigation

The data show no positive cases in food, then it would seem that the brucellosis is limited to workers on farms and in slaughterhouses.

It is believed that data collection is not representative of the actual situation of the possible sources of infection, including the lack of human cases in 2010.

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

The brucellosis control is carried out in Italian regions by performing different periodical checks, according to the provincial or regional status. In four regions (Campania, Calabria, Puglia and Sicilia) an special rule (O.M.14 november 2006) is the force which included the eradication between 3 years in those regions that still have a high prevalence of brucellosis by serogical diagnosis and slaughtering of positive animals. In the same regions the presence of different biovar of Brucella abortus, mainly biovar 1, 3, 6, and B. melitensis 3 represents an important source of infection for humans, given the high number of isolations made in 2008 by the milk matrix, while in other regions the outbreaks are sporadic. There is no plan for foodstuffs control and the available data refer to the checks carried out for survey. The sources of infection remain fresh milk and cheese produced with raw milk and are at risk of infection operators on farms and in slaughterhouses.

Relevance of the findings in animals to findings in foodstuffs and to human cases (as a source of infection)

There isn't a plan for food control and the data available relate to inspections carried out to study or self-control. There are no known cases of human brucellosis even in 2010, and this is a limitation of the control system, because it lets to set up an epidemiological investigation when disease occurs in human.

	Source of information	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis	Brucella spp., unspecified
Alpacas - at farm - animal sample - Control and eradication programmes - official sampling		Animal	8	0				
Cantabrian chamois - unspecified - Survey - national survey		Animal	42	0				
Deer - wild - Clinical investigations		Animal	13	0				
Deer - wild - roe deer - unspecified - Survey - national survey		Animal	106	0				
Deer - wild - unspecified - Survey - national survey		Animal	21	0				
Dogs - pet animals - Clinical investigations		Animal	14	0				
Dogs - pet animals - at farm - animal sample - Clinical investigations		Animal	14	0				
Dogs - pet animals - at farm - animal sample - Control and eradication programmes - official sampling		Animal	15	0				
Dogs - pet animals - unspecified - Survey - national survey		Animal	12	6				6
Goats - at farm - animal sample - Clinical investigations		Herd	65	0				
Hares - wild - unspecified - Survey - national survey		Animal	10	0				
Mouflons - wild - unspecified - Clinical investigations		Animal	12	0				

Table Brucellosis in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis	Brucella spp., unspecified
Pigs - at farm - animal sample - Clinical investigations		Herd	17	1				1
Pigs - at farm - animal sample - Control and eradication programmes - official sampling		Herd	4	1			1	
Pigs - at farm - animal sample - Survey - national survey		Animal	23	0				
Pigs - at farm - environmental sample - Control and eradication programmes - official sampling - objective sampling		Animal	19	0				
Water buffalos - farmed - at farm - animal sample - Clinical investigations		Animal	24	0				
Water buffalos - farmed - at farm - animal sample - Control and eradication programmes - official sampling (Data on animals-Community co-financed eradication programmes)		Animal	297971	6328				6328
Water buffalos - farmed - at farm - animal sample - Control and eradication programmes - official sampling (data on herds-Community co-financed eradication programmes)		Herd	2018	145				145
Water buffalos - farmed - at farm - animal sample - Survey - national survey		Animal	88	0				
Wild animals - unspecified - Control and eradication programmes - official sampling		Animal	39	0				
Wild animals - unspecified - Survey - national survey		Animal	15	0				
Wild boars - Clinical investigations		Animal	6	0				

Table Brucellosis in other animals

Brucella spp. Total units Sampling unit Units tested Source of positive for B. abortus B. melitensis B. suis unspecified information Brucella Wild boars - Survey - national survey 7 Animal 1 1 Wild boars - farmed - at farm - animal sample -10 0 Animal Survey - national survey Wild boars - unspecified - Control and eradication programmes - official sampling 15 3 Animal 380 12 Wild boars - wild - unspecified - Clinical Animal 14 0 investigations Wild boars - wild - unspecified - Survey - national 151 3 3 Animal survey

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.

									Indicators	
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	% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	4431	2913	2528	9	7	3	33.33	86.78	.36	.28
Basilicata	2905	2814	2809	83	47	6	7.23	99.82	2.95	1.67
Calabria	7513	6178	6152	217	150	2	.92	99.58	3.53	2.44
Campania	12323	8847	8723	88	59	0	0	98.6	1.01	.68
Lazio	9437	5806	5806	0	0	0	N.A.	100	0	0
Liguria	1125	675	674	0	0	0	N.A.	99.85	0	0
Molise	830	632	631	8	4	0	0	99.84	1.27	.63
Puglia	4124	3899	3899	55	46	5	9.09	100	1.41	1.18
Sicilia	10719	10304	10294	575	463	0	0	99.9	5.59	4.5
Valle d'Aosta/Vallée d'Aoste	1154	1141	1141	0	0	0	N.A.	100	0	0
Total :	54561	43209	42657	1035	776	16	1.55	98.72	2.43	1.82

Comments:

1) N.A.

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.

									Indicators	
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	% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
Abruzzo	5249	5014	3011	1	0	0	0	60.05	.03	0
Basilicata	6966	6966	6667	14	11	6	42.86	95.71	.21	.16
Calabria	8424	8317	8268	201	117	3	1.49	99.41	2.43	1.42
Campania	7614	7222	6175	68	57	7	10.29	85.5	1.1	.92
Emilia-Romagna	3832	2610	2608	0	0	0	N.A.	99.92	0	0
Lazio	1884	1884	815	2	2	0	0	43.26	.25	.25
Liguria	2066	1995	1995	0	0	0	N.A.	100	0	0
Puglia	3723	3722	3721	58	48	15	25.86	99.97	1.56	1.29
Sicilia	8980	8933	8925	824	461	7	.85	99.91	9.23	5.17
Valle d'Aosta/Vallée d'Aoste	538	538	538	0	0	0	N.A.	100	0	0
Total :	49276	47201	42723	1168	696	38	3.25	90.51	2.73	1.63

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.

						Slaugh	ntering	Indic	eators
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	Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	59796	37680	36678	36678	245	205	236	97.34	.67
Basilicata	89331	70294	70235	70235	446	412	437	99.92	.64
Calabria	114017	81975	81831	55839	999	955	955	99.82	1.22
Campania	193677	133970	132744	132744	530	527	533	99.08	.4
Lazio	198674	74 139613	139545	139545	0	0	0	99.95	0
Liguria	8749	5996	5922	5922	0	0	0	98.77	0
Molise	16846	10594	10464	10464	66	66	75	98.77	.63
Puglia	171879	128486	128486	128486	513	513	611	100	.4
Sicilia	372232	286331	285450	285450	2995	2905	5185	99.69	1.05
Valle d'Aosta/Vallée d'Aoste	38285	27179	27179	27179	0	0	4	100	0
Total :	1263486	922118	918534	892542	5794	5583	8036	99.61	.63

Comments:

¹⁾ N.A.

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.

						Slaugh	ntering	Indic	ators
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	Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
Abruzzo	197979	193188	147936	147936	2	2	2	76.58	0
Basilicata	408800	307683	301643	203814	225	222	479	98.04	.07
Calabria	336858	329335	329335	202166	2163	2116	2252	100	.66
Campania	268108	247051	233613	233613	2376	2374	2558	94.56	1.02
Emilia-Romagna	87818	80359	80178	71385	0	0	0	99.77	0
Lazio	80364	71035	26353	26353	2	2	2	37.1	.01
Liguria	19071	15247	15247	15247	0	0	0	100	0
Puglia	375038	366819	366692	366665	1021	1012	2161	99.97	.28
Sicilia	1047478	983418	982026	982026	26851	25437	25954	99.86	2.73
Valle d'Aosta/Vallée d'Aoste	7552	6668	6668	6668	0	0	0	100	0
Total :	2829066	2600803	2489691	2255873	32640	31165	33408	95.73	1.31

Comments:

¹⁾ N.A.

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.

						Status of	herds and anim	als under the p	rogramme					
		r of herds and under the	Unkr			Not free or no	t officially free		Free or of	ficially free	F-	·ee	Officia	ally free
		amme	Office	iown	Last chec	ck positive	Last chec	k negative	suspe	ended	FI	ee	Officia	lly lree
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	2752	36328	0	0	1	71	178	412	209	519	0	0	2364	35326
Basilicata	2814	70294	5	59	22	678	47	1132	1	76	0	0	2739	68349
Calabria	6238	84999	11	284	99	2866	162	2173	26	766	0	0	5940	78910
Campania	8845	147851	124	870	36	1684	126	2204	101	1605	7	55	8451	141433
Lazio	5806	136868	0	0	0	0	5	49	0	0	0	0	5801	136819
Liguria	675	5996	0	0	0	0	0	0	1	74	0	0	674	5922
Molise	632	10494	1	30	3	42	4	85	0	0	0	0	624	10337
Puglia	3899	128486	0	0	17	972	12	461	1	409	0	0	3869	126644
Sicilia	10013	283008	1	6	210	10000	582	17398	51	1493	18	890	9151	253221
Valle d'Aosta/Vallée d'Aoste	1141	27179	0	0	0	0	0	0	0	0	0	0	1141	27179
Total :	42815	931503	142	1249	388	16313	1116	23914	390	4942	25	945	40754	884140

Comments:

¹⁾ N.A.

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.

	Total number	er of existing	Officially f	free herds	Infected	d herds		Surveillance			Investig	ations of suspec	ct cases	
Region	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
Bolzano-Bozen	3856	75955	3856	100	0	0	3856	26211	0	18	0	0	0	4
Friuli-Venezia Giulia	661	10575	661	100	0	0	661	4816	0	0	0	0	0	0
Lazio 1)	4575	634424	4573	99.96	2	.04	2115	97985	2	1	1	2	0	1
Lombardia	11662	174434	11661	99.99	0	0	5880	99527	0	89	2	0	0	1
Marche	3874	161270	3874	100	0	0	1954	92854	0	0	0	0	0	0
Molise	2994	87657	2994	100	0	0	2512	59647	0	0	0	0	0	0
Pescara	1317	25600	1317	100	0	0	1317	25600	0	0	0	0	0	0
Piemonte	9215	180711	9215	100	0	0	1995	55702	0	389	6	2	0	3
Sardegna	13304	2843885	13304	100	0	0	2193	143493	1	92879	1	152	0	0
Savona	818	7529	818	100	0	0	360	3857	0	0	0	0	0	0
Toscana	1447	56429	1446	99.93	0	0	1447	53994	1	8	1	1	0	1
Trento	998	29665	998	100	0	0	998	25642	0	25642	0	0	0	0
Umbria	3284	136045	3283	99.97	0	0	900	17793	0	0	0	0	0	1

Table Ovine or Caprine Brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Veneto	2401	57974	2401	100	0	0	1658	46753	0	0	0	0	0	0
Total:	60406	4482153	60401	99.99	2	0	27846	753874	4	119026	11	157	0	11

Comments:

¹⁾ LATINA,RIETI,ROMA,VITERBO

²⁾ N.A.

The following amendments were made:

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Total :	Officially free herds - %	104.43	99.99
	Sardegna	Officially free herds - %	120.14	100
	Total :	Officially free herds - Number of herds	63081	60401
	Sardegna	Officially free herds - Number of herds	15984	13304

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.

	Total no	number of Officially free herds In					Surve	illance						Investigati	ons of susp	pect cases	5				
	existing	g bovine			Infected	a neras	Se	rological te	ests	Examiı	nation of b	ulk milk	Info	ormation ab	oout		Epid	lemiologic	al investiga	ation	
							Number of		Number of	Number of	Number of		Number of		Number of	Number of animals			of positive mals		Number of
	Herds	Animals	Number of herds	%	Number of herds	%	bovine herds tested	Number of animals tested	infected herds	bovine herds tested	animals or pools tested	Number of infected herds	notified abortions whatever	isolations of Brucella infection	abortions due to Brucella	tested with serological blood tests	Number of suspended herds	Sero	BST	animals examined microbio	animals positive microbio
Region							tostou			losiou	loolou		cause		abortus			logically		logically	logically
Bolzano-Bozen	8433	138335	8433	100	0	0	3228	18184	0	5199	110397	0	10	0	0	511	34	0	0	1	0
Brindisi	236	4059	236	100	0	0	236	4059	0	0	0	0	0	0	0	0	0	0	0	0	0
Campobasso	1503	18487	1502	99.93	1	.07	1503	18487	1	0	0	0	0	0	0	32	1	1	0	0	0
Emilia-Romagna	7042	497411	7038	99.94	0	0	1426	60156	0	3734	11202	0	101	0	0	982	14	51	0	61	0
Friuli-Venezia Giulia	2532	94555	2532	100	0	0	456	12703	0	0	0	0	1	0	0	0	0	0	0	0	0
Lazio 1)	5	578	5	100	0	0	3	233	0	0	0	0	0	0	0	0	0	0	0	0	0
Liguria 2)	337	6264	335	99.41	0	0	170	3293	0	0	0	0	0	0	0	0	0	0	0	0	0
Lombardia	11083	911254	11083	100	1	.01	6038	444551	1	2496	386067	0	342	0	0	0	0	0	0	0	0
Marche	2283	41954	2283	100	0	0	1282	25075	0	0	0	0	0	0	0	0	0	0	0	0	0
Pescara	755	8700	753	99.74	2	.26	375	4480	2	0	0	0	0	0	0	140	2	20	0	10	1
Piemonte	11335	349892	11335	100	0	0	2270	53280	0	352	29251	0	236	0	0	302	13	32	0	0	0
Rieti	1384	31199	1384	100	0	0	839	13358	0	0	0	0	0	0	0	1	0	1	0	0	0

Table Bovine brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Sardegna	9393	268912	9386	99.93	0	0	2394	32941	0	43	4952	0	12	0	0	15562	7	0	0	12	0
Toscana	892	16263	892	100	0	0	892	16263	0	0	0	0	6	0	0	0	0	0	0	0	0
Trento	1513	44894	1513	100	0	0	1418	34137	0	0	0	0	136	0	0	34137	0	0	0	0	0
Umbria	1951	48866	1951	100	0	0	625	6834	0	0	0	0	4	0	0	0	0	0	0	4	0
Veneto	7470	197066	7470	100	0	0	1081	9942	0	804	48432	0	298	0	0	0	0	0	0	0	0
Total:	68147	2678689	68131	99.98	4	.01	24236	757976	4	12628	590301	0	1146	0	0	51667	71	105	0	88	1

Comments:

¹⁾ RIETI BUFALINI

²⁾ IMPERIA, SAVONA

³⁾ N.A.

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.

						Status of	herds and anim	als under the pr	rogramme					
		of herds and	Llok	nown		Not free or no	t officially free		Free or of	ficially free	Er	ee	Officia	ılly free
		amme	Ofiki	iown	Last ched	ck positive	Last chec	k negative	suspe	ended	FI	ee	Officia	lly free
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Abruzzo	5014	193188	0	0	0	0	1221	20955	783	24299	0	0	3010	147934
Basilicata	6966	307683	299	6130	4	225	8	365	0	0	0	0	6655	300863
Calabria	8317	435932	0	0	73	7354	196	15597	52	3011	0	0	7996	402547
Campania	7224	250044	1046	13226	25	4109	114	2271	2	6	0	0	6036	230432
Emilia-Romagna	2610	80359	0	0	0	0	2	181	0	0	0	0	2608	80178
Lazio	1884	71035	1069	27649	1	122	1	45	0	0	0	0	813	43219
Liguria	1995	18008	0	0	0	0	510	3717	0	0	0	0	1485	14291
Puglia	3723	366819	1	127	12	871	13	1916	0	0	0	0	3697	363905
Sicilia	8786	970354	0	0	443	116801	561	97761	92	13888	1030	141411	6660	600493
Valle d'Aosta/Vallée d'Aoste	538	6668	0	0	0	0	0	0	0	0	0	0	538	6668
Total :	47057	2700090	2415	47132	558	129482	2626	142808	929	41204	1030	141411	39498	2190530

Comments:

1) N.A.

Table Ovine or Caprine brucellosis - data on status of herds at the end of the period - Community co-financed eradication programmes

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

In Italy data on human case of Yersinia enterocolitica, are not available and its incidence is not known. Yersinia enterocolitica is occasionally

associated with foodborne human disease . Data on Yersiniosis cases animals are not collected.

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

At national level, data regarding the control activities for Yersinia enterocolitica contamination in animal and food in 2010 were very poor and do not reflect the real situation. In fresh meat and vegetable prevalence of Y.enterocolitica is very low.

Results from sampling performed in 2010 are not comparable with the data elaborated in the previous years because some food types are

represented by a very small number of samples.

Differentiation between non pathogenetic and pathogenetic strains of Y.enterocolitica are not reported. Y. pseudotuberculosis was isolated only in wild animals.

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.

At present, official data about prevalence of Yersiniosis in Italian farms are few but Y.enterocolitica was isolated predominantly in cattle. A number of different foods can vehicle Yersinia entyerocolitica to consumers: fresh meat and cheese. Raw meats are also easily contaminated, but a thoroughly cooking process is usually sufficient to inactivate this microorganism.

Recent actions taken to control the zoonoses

There is no action taken in Italy for the control of this zoonoses.

Suggestions to the Community 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.

Additional information

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2.7.2 Yersinia in foodstuffs

Table Yersinia in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotubero ulosis	Yersinia spp., unspecified	, Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Cheeses made from cows' milk - at catering - Control and eradication programmes - official sampling		Single		4	0						0
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling		Single		36	0						0
Cheeses made from sheep's milk - at processing plant - Control and eradication programmes - official sampling		Single		2	0						0
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling		Single		1	1	1					1
Cheeses, made from unspecified milk or other animal milk - unspecified - at catering - Control and eradication programmes - official sampling		Batch		1	0						0
Cheeses, made from unspecified milk or other animal milk - unspecified - at processing plant - Control and eradication programmes - official sampling		Single		2	0						0
Cheeses, made from unspecified milk or other animal milk - unspecified - at processing plant - Survey - national survey		Batch		3	0						0
Cheeses, made from unspecified milk or other animal milk - unspecified - unspecified - Surveillance - HACCP and own checks		Single		6	0						0

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberc ulosis	Yersinia spp., unspecified	Y.	Y. enterocolitica - Y. enterocolitica, unspecified
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Single		2	0					
Dairy products (excluding cheeses) - butter - at catering - Control and eradication programmes - official sampling (butter, cream)		Single		1	0					0
Dairy products (excluding cheeses) - ice-cream - at processing plant - Control and eradication programmes - official sampling (and frozen milk)		Single		1	0					0
Fishery products, unspecified - at processing plant - Survey - national survey		Single		2	0					0
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling		Single		7	0					0
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (fresh fishery products)		Batch		4	0					0
Fishery products, unspecified - unspecified - Surveillance - HACCP and own checks		Single		4	0					0
Foodstuffs intended for special nutritional uses - unspecified - Control and eradication programmes - official sampling		Batch		1	0					0
Meat from bovine animals - fresh - at catering - Control and eradication programmes - official sampling		Single		5	0					0
Meat from bovine animals - fresh - at processing plant - Control and eradication programmes - official sampling		Single		1	0					0

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y.	Y. enterocolitica - Y. enterocolitica, unspecified
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Single		1	0					
Meat from bovine animals - fresh - at slaughterhouse - animal sample - Survey - national survey		Single		7	0					0
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling		Batch	500 gr	5	0					0
Meat from bovine animals - minced meat - unspecified - Control and eradication programmes - official sampling		Single		11	0					0
Meat from bovine animals - unspecified - Control and eradication programmes - official sampling (single)		Single		8	0					
Meat from broilers (Gallus gallus) - fresh - at processing plant - Control and eradication programmes - official sampling		Single		1	0					0
Meat from guinea fowl - unspecified - Control and eradication programmes - official sampling		Single		1	0					0
Meat from horse - fresh - at catering - Control and eradication programmes - official sampling (solipeds)		Single		2	0					0
Meat from other animal species or not specified - at processing plant - Control and eradication programmes - official sampling		Single		2	1		1			

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberc ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y.	Y. enterocolitica - Y. enterocolitica, unspecified
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling		Single		14	0						0
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling		Single		13	0						0
Meat from other animal species or not specified - fresh - unspecified - Control and eradication programmes - official sampling		Single		8	0						0
Meat from other animal species or not specified - fresh - unspecified - Control and eradication programmes - official sampling (batch)		Batch		1	0						0
Meat from other animal species or not specified - fresh - unspecified - Surveillance - HACCP and own checks		Single		3	0						0
Meat from other animal species or not specified - fresh - unspecified - Survey - national survey		Single		4	0						
Meat from other animal species or not specified - meat preparation - Control and eradication programmes - official sampling		Single		15	0						
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling (solipeds -horses)		Single		1	0						
Meat from other animal species or not specified - meat products - at processing plant - Control and eradication programmes - official sampling		Single		33	2			2			

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotubero ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling		Single		15	1			1			
Meat from other animal species or not specified - meat products - unspecified - Control and eradication programmes - official sampling		Single		22	0						
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks		Single		16	0						
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks (all animals and thereof)		Batch	25gr	1	0						
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling		Single		9	0						
Meat from other animal species or not specified - minced meat - at retail - Control and eradication programmes - official sampling		Single		7	1			1			
Meat from other animal species or not specified - offal - at processing plant - Control and eradication programmes - official sampling (including viscera and viscera product)		Single		4	1	1					1
Meat from pig - fresh - Control and eradication programmes - official sampling		Single		6	0						
Meat from pig - fresh - at slaughterhouse - animal sample - Survey - national survey		Single		1	0						0
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling		Single		15	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotubero ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Meat from pig - fresh - unspecified - Control and eradication programmes - official sampling (batch)		Batch	500gr	4	0						0
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		1	0						0
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling		Batch	500gr	22	0						0
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling (single)		Single		43	0						0
Meat from poultry, unspecified - fresh - unspecified - Control and eradication programmes - official sampling		Single		22	0						0
Meat from rabbit - fresh - unspecified - Control and eradication programmes - official sampling		Batch	500gr	2	0						0
Meat from sheep - fresh - at catering - Control and eradication programmes - official sampling		Single		4	1	1					1
Meat from sheep - fresh - at slaughterhouse - animal sample - Survey - national survey		Single		1	0						0
Meat from sheep - fresh - unspecified - Control and eradication programmes - official sampling		Batch	500gr	7	0						0
Meat, mixed meat - at catering - Control and eradication programmes - official sampling (fresh meat sheep and goats)		Single		1	0						0

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotubero ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Milk from other animal species or unspecified - at farm - animal sample - milk - Control and eradication programmes - official sampling		Single		10	0					0
Milk from other animal species or unspecified - at processing plant - Survey - national survey		Single		67	0					0
Other food - at catering - Surveillance - HACCP and own checks		Single		11	1	1				1
Other food - at catering - Survey - national survey		Single		2	0					0
Other food - at processing plant - Control and eradication programmes - official sampling (gastronomic preparation)		Single		12	1			1		
Other food - unspecified - Control and eradication programmes - official sampling (gastronomic preparation single)		Single		6	1			1		
Other food - unspecified - Control and eradication programmes - official sampling (gastronomic preparation)		Batch		4	0					0
Other products of animal origin - gelatin and collagen - at processing plant - Control and eradication programmes - official sampling		Single		1	0					0
Vegetables - at retail - Survey - national survey		Single		62	0					0

Footnote:

No information available on dignostic methods used for of the investigations reported

2.7.3 Yersinia in animals

A. Yersinia enterocolitica in pigs

Vaccination policy

Vaccination was not used.

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	Source of information	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y.	Y. enterocolitica - Y. enterocolitica, unspecified
Badgers - wild - unspecified - Clinical investigations		Animal	3	0					0
Bears - wild - unspecified - Clinical investigations		Animal	6	0					0
Birds - wild - unspecified - Clinical investigations		Animal	16	0					0
Birds - wild - unspecified - Survey - national survey		Animal	11	0					0
Bison - unspecified - Clinical investigations		Animal	2	0					
Camels - unspecified - Clinical investigations		Animal	3	1	1				1
Cantabrian chamois - wild - unspecified - Surveillance - HACCP and own checks		Animal	1	0					0
Cats - pet animals - unspecified - Clinical investigations		Animal	1	0					0
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	2	0					0
Cattle (bovine animals) - at farm - Clinical investigations		Animal	3	1		1			
Cattle (bovine animals) - calves (under 1 year) - for slaughter - at farm - animal sample - Clinical investigations		Herd	2	0					0
Cattle (bovine animals) - calves (under 1 year) - veal calves - unspecified - Clinical investigations		Herd	1	0					0

Υ. enterocolitica Yersinia spp. Y. Y. Total units Y. Y. Source of Sampling unit - Y. Units tested enterocolitica pseudotubero unspecified enterocolitica enterocolitica positive for information enterocolitica, - O:9 Yersinia ulosis - O:3 unspecified Cattle (bovine animals) - meat production animals fattening cows - unspecified - Clinical investigations Herd 2 0 0 Cattle (bovine animals) - unspecified - at farm animal sample - Control and eradication 122 37 37 37 Animal programmes - official sampling Cattle (bovine animals) - unspecified - at farm animal sample - Surveillance - HACCP and own Animal 4 1 1 1 checks Cattle (bovine animals) - unspecified - at farm -7 372 8 Animal 31 16 16 animal sample - Survey - national survey Cattle (bovine animals) - unspecified - at slaughterhouse - animal sample - Control and 7 1 Animal eradication programmes - official sampling Cattle (bovine animals) - unspecified - unspecified -Herd 4 0 0 Clinical investigations Deer - wild - fallow deer - unspecified - Clinical Animal 1 0 0 investigations Deer - wild - roe deer - unspecified - Control and 27 4 4 4 Animal eradication programmes - official sampling Deer - wild - unspecified - Clinical investigations 1 0 0 Animal Deer - wild - unspecified - Survey - national survey 1 Animal 1 1 Dogs - pet animals - at farm - animal sample -5 0 0 Animal

Clinical investigations

Υ. enterocolitica Y. Y. Y. Y. Total units Yersinia spp. Source of Sampling unit - Y. Units tested enterocolitica pseudotubero unspecified enterocolitica enterocolitica positive for information enterocolitica, - O:9 Yersinia ulosis - O:3 unspecified Dogs - pet animals - unspecified - Control and Animal 1 0 0 eradication programmes - official sampling Dogs - pet animals - unspecified - Control and eradication programmes - official sampling -2 0 0 Animal objective sampling Dogs - pet animals - unspecified - Survey - national Animal 1 0 0 Elephants - zoo animals - unspecified - Clinical Animal 2 0 0 investigations Ferrets - wild - unspecified - Clinical investigations Animal 6 0 0 Fish - unspecified - Clinical investigations 2 0 0 Herd Foxes - wild - unspecified - Clinical investigations 1 0 0 Animal Foxes - wild - unspecified - Control and eradication 3 2 2 2 Animal programmes - official sampling Foxes - wild - unspecified - Survey - national survey 7 0 0 Animal Gallus gallus (fowl) - laying hens - unspecified -1 0 0 Herd Clinical investigations Geese - unspecified - unspecified - Clinical 0 0 Herd 1 investigations Goats - at farm - animal sample - Clinical 0 3 0 Herd investigations

Υ. enterocolitica Y. Yersinia spp. Y. Y. Total units Y. Sampling unit Source of - Y. Units tested enterocolitica pseudotubero unspecified enterocolitica enterocolitica positive for information enterocolitica, - O:9 Yersinia ulosis - O:3 unspecified Goats - at farm - animal sample - Survey - national Herd 1 0 survey Guinea pigs - pet animals - unspecified - Clinical 1 0 0 Animal investigations Hares - wild - at catering - Control and eradication 0 0 Animal 1 programmes - official sampling Hares - wild - at farm - animal sample - Clinical 12 7 3 4 Animal investigations Hares - wild - unspecified - Clinical investigations 3 14 3 0 Animal Hares - wild - unspecified - Control and eradication Animal 3 1 1 1 programmes - official sampling Hares - wild - unspecified - Surveillance - HACCP 1 0 0 Animal and own checks Hedgehogs - wild - unspecified - Clinical 5 0 0 Animal investigations Lamas - zoo animal - at farm - animal sample -1 0 0 Animal Surveillance - HACCP and own checks Lynx - wild - unspecified - Clinical investigations Animal 2 0 0 Marten - wild - unspecified - Clinical investigations 0 0 Animal 10 Mice - wild - unspecified - Clinical investigations 0 0 4 Animal Monkeys - zoo animal - unspecified - Clinical 25 Animal 1 1 investigations

	Source of information	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberc ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Mouflons - wild - unspecified - Clinical investigations		Animal	3	0						0
Other animals - unspecified - at farm - animal sample - Clinical investigations		Animal	38	0						0
Other animals - unspecified - at farm - animal sample - Control and eradication programmes - official sampling		Animal	2	0						0
Other animals - unspecified - at farm - animal sample - Surveillance - HACCP and own checks		Animal	1	0						0
Other animals - unspecified - unspecified - Clinical investigations (zoo animals)		Animal	20	0						0
Parrots - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	1	0						0
Pigeons - unspecified - Clinical investigations		Animal	2	0						0
Pigs - at farm - animal sample - Survey - national survey		Animal	124	0						0
Pigs - at slaughterhouse - animal sample - Clinical investigations		Animal	1	0						0
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	1	0						0
Pigs - unspecified - Clinical investigations		Herd	1	0						0
Poultry, unspecified - at farm - animal sample - Clinical investigations		Animal	4	0						0

	Source of information	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Y. pseudotuberc ulosis	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y. enterocolitica - O:9	Y. enterocolitica - Y. enterocolitica, unspecified
Poultry, unspecified - unspecified - Control and eradication programmes - official sampling		Animal	1	0						0
Rabbits - at farm - animal sample - Survey - national survey		Animal	5	0						0
Rabbits - unspecified - Clinical investigations		Animal	1	1		1				
Raccoon dogs - wild - unspecified - Clinical investigations		Animal	2	0						0
Raccoon dogs - wild - unspecified - Control and eradication programmes - official sampling		Animal	3	0						0
Rats - wild - unspecified - Survey - national survey		Animal	9	0						0
Rodents - wild - unspecified - Control and eradication programmes - official and industry sampling		Animal	1	0						0
Rodents - wild - unspecified - Survey - national survey		Animal	1	0						0
Sheep - at farm - animal sample - Clinical investigations		Animal	1	0						0
Sheep - at farm - animal sample - Control and eradication programmes - official sampling		Animal	2	0						0
Sheep - at farm - animal sample - Survey - national survey		Herd	4	0						0
Sheep - unspecified - Clinical investigations		Herd	2	1			1			0
Sheep and goats - at farm - animal sample - Clinical investigations		Animal	23	6			6			0

	Source of information	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica		Yersinia spp., unspecified	Y. enterocolitica - O:3	f.	Y. enterocolitica - Y. enterocolitica, unspecified
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks		Animal	4	0						0
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	332	0						0
Sheep and goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	1	0						0
Solipeds, domestic - donkeys - unspecified - Clinical investigations		Herd	1	0						0
Solipeds, domestic - horses - unspecified - Clinical investigations		Herd	1	0						0
Turtles - pet animals - unspecified - Clinical investigations		Animal	1	0						0
Water buffalos - at farm - animal sample - Clinical investigations		Herd	3	0						0
Wild animals - unspecified - Clinical investigations		Animal	3	0						0
Wild boars - unspecified - Survey - national survey		Animal	1	0						0
Wild boars - wild - unspecified - Clinical investigations		Animal	114	5			5			
Wild boars - wild - unspecified - Survey - national survey		Animal	195	67	42	1	24			42
Wolves - wild - unspecified - Clinical investigations		Animal	3	0						0

	Source of information	Sampling unit	Units tested	Total units positive for Yersinia	Y. enterocolitica	Yersinia spp., unspecified	Y. enterocolitica - O:3	Y.	Y. enterocolitica - Y. enterocolitica, unspecified
Wolves - wild - unspecified - Control and eradication programmes - official sampling		Animal	3	1	1				1

Footnote:

No information available on dignostic methods used for of the investigations reported

2.8 TRICHINELLOSIS

2.8.1 General evaluation of the national situation

A. Trichinellosis general evaluation

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. britiovi 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 semi-free ranging or backyard pigs comes to the end within one pig generation. In 2010, T. pseudospiralis has been detected for the first time in a hunted wild boar of the Emilia Romagna region and in in two farmed wild boars of the Friuli region.

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 2010, about 520 million pigs have been slaughtered (about 10 million/year) and only 27 pigs (18 detected at the slaughterhouse and 9 which were the source of infection for humans) were infected (prevalence 0.0000054%). Furthermore, all 27 infected pigs were free-ranging or backyard animals, which represent only a very low percentage of pigs reared in Italy. In 2010, Trichinella parasites have been never detected in domestic pigs and horses. Trichinella larvae have been detected in 6 wolves, in 22 red foxes, 1 mustelid and in 3 wild boars.

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) 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 five years are close to the true epidemiological situation of Trichinella in domestic and sylvatic animals of Italy.

Suggestions to the Community for the actions to be taken

It is suggested to switch Trichinella control from pigs reared under controlled conditions to semi-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

validated highly specific serological test (Western blot) 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 2010, 1,428 Trichinella infections in humans have been documented in Italy. Of them, 95 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, 163 cases (9 outbreaks) for the consumption of pork from semifree 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.

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

The incidence of human trichinellosis in the Italian population is extremely low and the improvement of diagnostic means of infection in the horse, the number of cases has drastically reduced. The last cases of trichinosis were due to uncontrolled consumption of meat of wild boar or pigs reared in the semi-wild herds or family members.

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 incisted 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

Magnetic stirrer method for pooled sample digestion

Mechanically assisted pooled sample digestion method/sedimentation technique Automatic digestion method for pooled samples of up to 35 g

Results of the investigation including the origin of the positive animals

In the course of 2010, no Trichinella-positive horse has been detected at the slaughterhouses of Italy.

Control program/mechanisms

The control program/strategies in place

Since all the Trichinella-infected horse detected so far in Italy, originated from abroad, no control strategies can be developed.

Recent actions taken to control the zoonoses

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.

Suggestions to the Community for the actions to be taken

Even if Trichinella-infection in horses is extremely rare (about 1 positive/250,000 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, Trichinella infections in animals should be immediately notified.

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B. Trichinella in pigs

Number of officially recognised Trichinella-free holdings

At the end of 2010, 787 holdings of 9 Italian regions and one autonomous province, have been recognised as Trichinella-free.

Officially recognised regions with negligible Trichinella risk

No Italian region has been recognised with a negligible risk for Trichinella.

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

Frequency of the sampling

General

All pigs slaughtered for the market.

Type of specimen taken

General

Generally diaphragm pillars, sometimes masseter or tongue or abdominal muscles.

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

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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 Community 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 semi-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.

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Badgers - unspecified - Control and eradication programmes - official sampling		Animal	17	0		
Birds - wild - unspecified - Clinical investigations		Animal	63	0		
Birds - wild - unspecified - Control and eradication programmes - official sampling		Animal	1012	0		
Birds - wild - unspecified - Survey - national survey		Animal	143	0		
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	10	0		
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	107	0		
Deer - wild - unspecified - Survey - national survey		Animal	88	0		
Falcons - unspecified - Control and eradication programmes - official sampling		Animal	83	0		
Foxes - wild - unspecified - Clinical investigations		Animal	38	0		
Foxes - wild - unspecified - Control and eradication programmes - official sampling		Animal	1617	26		26
Foxes - wild - unspecified - Survey - national survey		Animal	100	0		
Marten - wild - unspecified - Survey - national survey		Animal	3	1		1

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Mouflons - wild - unspecified - Clinical investigations		Animal	13	0		
Pigs - at catering - Control and eradication programmes - official sampling		Animal	2801	0		
Pigs - at farm - animal sample - Control and eradication programmes - official sampling		Animal	94920	0		
Pigs - at farm - animal sample - Surveillance - HACCP and own checks		Animal	172	0		
Pigs - at processing plant - Control and eradication programmes - official sampling		Animal	368	0		
Pigs - at retail - Control and eradication programmes - official sampling		Animal	7837	0		
Pigs - at retail - Control and eradication programmes - official sampling - census		Animal	133	0		
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	5330566	0		
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	98981	0		
Pigs - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Animal	50199	0		
Pigs - breeding animals - at slaughterhouse - Control and eradication programmes - official sampling		Animal	360942	0		

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Pigs - breeding animals - at slaughterhouse - Control and eradication programmes - official sampling - census		Animal	273	0		
Pigs - fattening pigs - at farm - animal sample - Control and eradication programmes - official sampling		Animal	17094	0		
Pigs - fattening pigs - at retail - Control and eradication programmes - official sampling		Animal	120	0		
Pigs - fattening pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	3387696	0		
Pigs - fattening pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	152638	0		
Pigs - fattening pigs - unspecified - Control and eradication programmes - official sampling		Animal	2034	0		
Pigs - unspecified - Control and eradication programmes - official sampling		Animal	26281	0		
Pigs - unspecified - Surveillance - HACCP and own checks		Animal	110	0		
Solipeds, domestic - at slaughterhouse - Control and eradication programmes - official sampling - census		Animal	3701	0		
Solipeds, domestic - donkeys - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	130	0		

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Solipeds, domestic - horses - at farm - Control and eradication programmes - official sampling		Animal	5695	0		
Solipeds, domestic - horses - at processing plant - Control and eradication programmes - official sampling		Animal	188	0		
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	13736	0		
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	173	0		
Solipeds, domestic - horses - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Animal	0	0		
Solipeds, domestic - horses - unspecified - Control and eradication programmes - official sampling		Animal	10596	0		
Solipeds, domestic - horses - unspecified - Surveillance - HACCP and own checks		Animal	0	0		
Wild animals - unspecified - Clinical investigations		Animal	35	0		
Wild animals - unspecified - Control and eradication programmes - official sampling		Animal	514	0		
Wild animals - unspecified - Surveillance - HACCP and own checks		Animal	13	0		
Wild boars - at processing plant - Surveillance - HACCP and own checks		Animal	25	0		

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Wild boars - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	13163	0		
Wild boars - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	4047	0		
Wild boars - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Animal	0	0		
Wild boars - farmed - at farm - animal sample - Control and eradication programmes - official sampling		Animal	133	0		
Wild boars - farmed - at slaughterhouse - Control and eradication programmes - official sampling		Animal	35	0		
Wild boars - farmed - at slaughterhouse - Control and eradication programmes - official sampling (different sampling unit)		Flock	26	2		2
Wild boars - farmed - unspecified - Control and eradication programmes - official sampling		Animal	512	0		
Wild boars - unspecified - Clinical investigations		Animal	51	0		
Wild boars - unspecified - Control and eradication programmes - official sampling		Animal	5860	0		
Wild boars - unspecified - Surveillance - HACCP and own checks		Animal	0	0		
Wild boars - unspecified - Survey - national survey		Animal	3521	0		

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified
Wild boars - wild - unspecified - Control and eradication programmes - official sampling		Animal	14381	1		1
Wild boars - wild - unspecified - Control and eradication programmes - official sampling - census		Animal	983	0		
Wolves - wild - unspecified - Control and eradication programmes - official sampling		Animal	32	9		9
Wolves - wild - unspecified - Survey - national survey		Animal	2	1		1

The following amendments were made:

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Solipeds, domestic - horses - unspecified - Surveillance - HACCP and own checks	Units tested	21	0
	Solipeds, domestic - horses - unspecified - Control and eradication programmes - official sampling	Units tested	10575	10596
	Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling	Units tested	13616	13736
	Solipeds, domestic - horses - at slaughterhouse - animal sample - Surveillance - HACCP and own checks	Units tested	120	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Wild boars - at slaughterhouse - animal sample - Surveillance - HACCP and own checks	Units tested	12	0
	Wild boars - unspecified - Surveillance - HACCP and own checks	Units tested	10	0

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. It is not present in other animals (althought some wrong reports were notified in recent years) or in humans.

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

The lack of official data and poor level of reporting, both in animals and humans, do not allow to have a complete and appropriate picture on diffusion of CE in Italy. At the moment, the most reliable epidemiological information is based on research data. CE may be considered sporadic, endemic and hyperendemic in northern, central, southern and insular (Sardinia and Sicily) Italy, respectively. However, high prevalences of CE in adult sheep have been reported in different italian provinces, irrespective of area of origin, and in alpine

areas previously considered ipoendemic. The situation of Sardinia and Sicily continues to be alarming, even if CE prevalences and cyst fertility rates seem to be lower than in the past. The sheep-dog cycle is the most important way of diffusion followed by the parasite.

Relevance of the findings in animals, feedingstuffs and foodstuffs to human cases (as a source of infection)

Recent prevalence data (ranges or mean), from northern, central, southern and insular (Sicily and Sardinia) Italy, mainly reviewing recent surveys and studies carried out in National Projects, PHD research or local research plans, are summarized as follows (1, 2).

Northern Italy: sheep 0.1- 0.5% (in some areas, adult sheep 25-45%); cattle 0.02-0.7% (1.4 % in a limited area of Emilia-Romagna region);

horses 0.3%; pigs <1 per million. High and unexpected prevalences were found at necropsy in sheep (15%; cyst fertility 98%) and in wolves (2 out of 4 animals) from some alpine valleys in Piedmont, where previously 27% of sheperd dogs were positive by coproantigen test.

Central Italy: sheep and goats 20-80%; cattle 7-15%; pigs 0.3-0.8%; dogs 4-31%; wolves 15%; wild-boars 5 %. Cyst fertility is nearly 5% and 1%, in sheep and cattle, respectively.

Southern Italy: sheep and goats 4-36%; cattle 3-15%; pigs 0.05-0.5%; water buffaloes 10.5% (cyst fertility 13%); dogs 6%. In Campania region, where comprehensive surveys are carried out, nearly 22% and 25% of cattle and buffalo farms were found positive, respectively. Prevalences (cyst fertility) in ruminants were the following: cattle 10.5% (0%), buffaloes 10.4% (13%), and sheep 31.2% (17%).

Sicily: sheep 58%; cattle 11-67%; sheperd dogs 6-19%. Cyst fertility is 4% in cattle and extremely variable (9-90%) in sheep, depending on the involved province.

Sardinia: sheep 75%; goats 24%; cattle 41.5%; home slaughtered pigs 11%; horses 4%; dogs 3-10%; wild boars 4%. Cyst fertility is nearly 10%, 3%, and 8%, in sheep, cattle, and pigs, respectively.

Recent actions taken to control the zoonoses

CE control programmes have been implemented in some regions. Treatment of dogs in dog-shelters is required by law.

Suggestions to the Community for the actions to be taken

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In order to have appropriate official data on animal CE, Veterinary Services must improve the current surveillance activities. Establishment of a National Registry for CE with internet electronic data entry, following the example set by the European Registry for Alveolar echinococcosis.

Additional information

The analysis of Echinococcosus-Echinococcosis Regional Reports in animals (2010), mainly concerning cases found at slaughter [inspection under Reg. (EC) No 854/2004 (EC, 2004)], shows that the data from some regions are lacking and the harmonisation of informations is inadequate. Therefore, the official data are presently insufficient. Veterinary Services should report properly the positive cases. Furthermore, an agreed proportion of cysts found at slaughter should be collected to determine fertility. Cyst fertility and data of infected animals (species, category and origin) should be registered, and samples of detected cysts should be sent to the National Reference Laboratory (NRL) for genotyping, in order to have a more accurate epidemiological picture of animal echinococcosis at regional and national level.

2.9.2 Echinococcosis in humans

A. Echinococcus spp. in humans

Reporting system in place for the human cases

In Italy, compulsory notification of human cystic echinococcosis (CE) to the Italian Ministry of Health was discontinued in 1991, and under the current legislation, the Ministry requires only a summary of the regional cases. Therefore, data of CE no longer reach the Central Institute of Statistics (ISTAT), making the assessment of human CE occurrence even more difficult. It should be noted that, according to the European Directive 2003/99/CE, the Italian regulations (Legislative Decree 4 April 2006, No. 191) officially included CE among zoonoses under surveillance. Thus, it is up to the individual physician¿s goodwill to notify individual cases to the Local Health Unit, which in turn will fill out an electronic record to be transmitted to the Health Regional Council, which in turn will transmit the data to the Italian Ministry of Health.

Unsurprisingly, with regard to Italy, the ECDC-EFSA Community Summary Reports (2003-2008) on trends and sources of zoonoses indicate that only 1 case (imported) of CE was reported in 2003 and that no surveillance system exists. This contrasts with hundreds of cases per year reported in single Italian Regions, when research was done using different methods and information, e.g. Hospital Discharge Records (HDRs)

(see below).

Case definition

A. Clinical Criteria

Any person with at least one of the following two:

- 1. A slowly growing or static cystic mass (signs and symptoms vary with cyst location, size, type and number) diagnosed by imaging techniques;
- 2. Anaphylactic reactions due to ruptured or leaking cysts
- 3. Incidental finding of a cyst by imaging techniques in asymptomatic carriers or detected by screening strategies
- B. Diagnostic Criteria
- 1. Typical organ lesions detected by imaging techniques (e.g.: US, CT-scan, plain film radiography, MRI)
- 2. Specific serum antibodies by high-sensitivity serological tests, confirmed by a separate high specificity serological test
- 3. Histopathology or parasitology compatible with cystic echinococcosis (e.g. direct visualization of the protoscolices or hooklets in cyst fluid)
- 4. Detection of pathognomonic macroscopic morphology of cyst(s) in surgical specimens
- C. Possible versus probable versus confirmed case

Possible case. Any patient with a clinical or epidemiological history, and imaging findings or serology positive for CE

Probable case: any patient with the combination of clinical history, epidemiological history, imaging findings and serology positive for CE on two tests, Confirmed case: the above, plus either 1) demonstration of protoscoleces or their components, using direct microscopy or molecular biology, in the cyst contents aspirated by percutaneous treatment or at surgery, or 2) changes in US appearance, e. g. detachment of the endocyst in a CE1 cyst, thus moving to a CE3a stage, or solidification of a CE2 or CE3b, thus changing to a CE4 stage, after administration of albendazole (at least 3 months) or spontaneous.

Diagnostic/analytical methods used

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Diagnosis relies on modern imaging techniques, with ultrasound (US) being the most frequently used, complemented by serology. The widespread use of US has shown that the cysts go through different stages of involution, either spontaneously or as a result of non-surgical therapies (medical treatment with benzimidazoles and percutaneous treatments) The use of US has spawned several sonographic classifications over the years. Recently, the WHO-IWGE issued a standard ultrasound classification of echinococcal cysts based on their ultrasound appearance. In this classification, cysts are grouped as active, transitional and inactive, and determining the cyst stage has important consequences for clinical management and prognosis.

Notification system in place

In Italy, compulsory notification of CE to the Italian Ministry of Health was discontinued in 1991, and under the current legislation, the Ministry requires only a summary of the regional cases. Therefore, data of CE no longer reach the Central Institute of Statistics (ISTAT), making the assessment of human CE prevalence even more difficult.

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. It is not present in other animals (althought some wrong reports were notified in recent years) or in humans.

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

No case of acute CE has ever been reported, so incidence is generally related to the first diagnosis of the disease, irrespective of cyst stage.

Reports based on surgery-based surveys are known to greatly underestimate rates of infection. The results of the analysis of HDRs from 5 regions (the only published studies) show that the number of patients with CE admitted to hospitals is relatively high.

In Emilia-Romagna (northern Italy), the mean yearly incidence (1997-2002) was 1.07/100,000 inhabitants; the average incidence of persons born in Italy was 0.97/100,000. The existence of an area in the Apennines between the provinces of Reggio Emilia and Modena with a significantly higher risk and incidence (7.1/100,000) similar to that encountered in areas considered endemic, was demonstrated (3). In Lombardy (northern Italy), in 2004, there were 156 admissions for CE; of the patients, 72% resided in the region (4).

In Tuscany (central Italy), the mean yearly incidence (1995-2001) in citizens residing in the region was 1.6/100,000 (5).

In Apulia (southern Italy), the rate of patients admitted with hepatic CE from 1996-2000 was 6.4/100,000 (6). It must be pointed out that in Campania (southern Italy), in the province of Benevento, a questionnare survey performed by family doctors registered a CE average prevalence of 21.9/100,000 (max. 62.9/100,000 in one municipalility) (7).

In Sardinia, the mean yearly incidence (2001-2005) in citizens residing in the region was 6.6/100,000, rising to 10.6/100,000 in the Nuoro province (8, 9).

True occurrence of human CE is probably best assessed by ultrasound mass surveys. Interestingly, a study conducted in 1993 on CE

diagnosed by ultrasound in patients from several Ultrasound Units in Italy showed that 60% of 424 CE cases diagnosed out of 333,144 scans were asymptomatic (10). This indicates that the figures obtained from HDRs are only the tip of the iceberg.

Relevance as zoonotic disease

Due to poor level of reporting, the occurrence (and the cost) of human CE in Italy is underestimated. Compulsory notification of the disease

should be reintroduced (11). Further data on the cyst stage should be added to the notification form.

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2.9.3 Echinococcus in animals

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Cattle (bovine animals) - at farm - animal sample - Survey - national survey		Animal	Sicilia	20	0			
Cattle (bovine animals) - at slaughterhouse - Control and eradication programmes - official sampling		Animal	Campania	90865	525			525
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	27129	236	227		9
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Lazio	64534	699	117		582
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	340879	567	567		
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	44574	41			41
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Slaughter batch	Basilicata	12266	315			315
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	628766	1997	1997	0	

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Molise	12115	5			5
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Abruzzo	20055	566			566
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Liguria	15473	0			
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Valle d'Aosta/Vallé e d'Aoste	9416	5	5		
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Piemonte	470039	359	359		
Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - objective sampling		Animal	Sardegna	35599	1239			1239
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	8845	0			
Deer - farmed - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	3	0			
Deer - unspecified - Control and eradication programmes - official sampling - census		Animal	Toscana	97	0			

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Deer - wild - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	251	0			
Deer - wild - fallow deer - unspecified - Control and eradication programmes - official sampling		Animal	Lazio	275	0			
Deer - wild - red deer - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	446	0			
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	Lazio	10	0			
Goats - at farm - animal sample - Clinical investigations		Herd	Toscana	1	1			1
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Lazio	1498	15			15
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	750	0			
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	819	0			
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Abruzzo	503	60			60
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	1939	0			

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	11156	1	1		
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Slaughter batch	Basilicata	27356	35			35
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Molise	482	0			
Goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - objective sampling		Animal	Sardegna	3110	213			213
Goats - unspecified - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	1013	0			
Mountain goats - wild - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	28	0			
Pigs - at farm - animal sample - Clinical investigations		Herd	Toscana	1	1			1
Pigs - at farm - animal sample - Survey - national survey		Animal	Sicilia	63	48			48
Pigs - at retail - Control and eradication programmes - official sampling		Animal	Lazio	912	0			
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	2584123	3	3		

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	123671	0			
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Lazio	11603	23			23
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Liguria	1126	0			
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Molise	39919	0			
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	260053	2			2
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Abruzzo	293885	34			34
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Slaughter batch	Basilicata	49350	6			6
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	4689367	1	1		
Pigs - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - objective sampling		Animal	Sardegna	122152	92			92

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Pigs - fattening pigs - at retail - Control and eradication programmes - official sampling		Animal	Lazio	276646	3	3		
Pigs - unspecified - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	12395	0			
Sheep - at retail - Control and eradication programmes - official sampling		Animal	Lazio	742057	4074	3423		651
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	40036	120	120		
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	43907	4	4		
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	40988	59	59	0	
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Molise	8701	104			104
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	74376	105			105
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Abruzzo	68885	2598			2598
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Slaughter batch	Basilicata	70552	314			314

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - objective sampling		Animal	Sardegna	89151	42342			42342
Sheep - at slaughterhouse - animal sample - Survey - national survey		Animal	Sardegna	880	496	496		
Sheep - unspecified - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	633	0			
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	Sicilia	156	1			1
Sheep and goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Liguria	726	0			
Sheep and goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Piemonte	3261	12	12	0	
Sheep and goats - at slaughterhouse - animal sample - Survey - national survey		Animal	Sicilia	1	1			1
Solipeds, domestic - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	3701	0			
Solipeds, domestic - horses - at retail - Control and eradication programmes - official sampling		Animal	Lazio	2082	0			
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	78	0			

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	9881	0			
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Abruzzo	152	1			1
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	3701	0			
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Slaughter batch	Basilicata	510	0			0
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Molise	28	0			
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	170	0			
Solipeds, domestic - horses - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - objective sampling		Animal	Sardegna	1539	510			510
Solipeds, domestic - horses - unspecified - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	243	0			
Water buffalos - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Campania	37371	93			93

	Source of information	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis	Echinococcus spp., unspecified
Wild boars - at slaughterhouse - animal sample - Control and eradication programmes - official sampling		Animal	Umbria	10932	36	36		
Wild boars - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Lombardia	4047	0			
Wild boars - farmed - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census		Animal	Toscana	35	0			
Wild boars - unspecified - Control and eradication programmes - official sampling		Animal	Lazio	2585	31			31
Wild boars - wild - unspecified - Control and eradication programmes - official sampling - census		Animal	Toscana	1083	0			

Footnote:

No information available on unspecified Echinococcus species

The following amendments were made:

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Sheep and goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. multilocularis	12	0
	Sheep and goats - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. granulosus		12
	Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. granulosus	51	59
	Sheep - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. multilocularis	8	0
	Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. granulosus	1974	1997
	Cattle (bovine animals) - at slaughterhouse - animal sample - Control and eradication programmes - official sampling - census	E. multilocularis	23	0

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

Over the last twenty years, several studies have reported a decrease in the number of human cases of toxoplasmosis in Italy as well as in most developed countries. This downward trend is probably due to better hygienic conditions and the introduction of the cold chain system along the food supply chain. However, the exposure of women of child-bearing age is still of greatest concern because of the lack of effective vaccines in case of congenital toxoplasmosis. Clinical disease acquired during pregnancy is especially important in public health and, indeed, it may result in foetal death, abortion, and foetal abnormalities such as retinal inflammation and brain calcification. For this reason, it is useful to request a screening as from the 13th week of the gestation period and every 30-40 days until the expected date of confinement (Annex B, government decree 10th September1988).

The National Centre for Toxoplasmosis (CETOX) has found a high seroprevalence in some areas of the country in animals from family-owned holdings, especially in sheep herds. Eating habits also play a crucial role in the transmission of the parasite and as a matter of fact the eating of fresh or not properly cooked meat may result in the infection.

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

Because acute toxoplasmosis is not always notified, it is difficult to define a linkage between the spread of the disease among animals and human cases. Nowadays, informative campaigns of nutrition education addressed to childbearing women have appeared to be very effective in the prevention of the disease.

Recent actions taken to control the zoonoses

CETOX is currently running a serological an molecular screening on several animal species, both wild and farmed, in order to gain an insight of the spread of the disease throughout the country.

It would be desiderable to set up a network between the National Reference Centre and infectious disease units at which patients with acute toxoplasmosis are usually hospitalized in order to tie the spread of the disease among animals and human cases.

2.10.2 Toxoplasmosis in humans

A. Toxoplasmosis in humans

Reporting system in place for the human cases

Currently, there is not a reporting system of human cases of toxoplasmosis in place in Italy and, as such, the actual spread of the disease in humans is likely to be underestimated.

From an epidemiological viewpoint, the acute infection is asymptomatic in healthy adults or may present as an influenza-like syndrome with mild fever, lateral cervical pharyngeal adenopathy and myalgia. However, the occurrence of toxoplasmosis in immuno-compromised hosts, such as HIV-infected patients, may cause encephalitis because of the infection of the brain.

Toxoplasmosis of the brain in adults with CD4 < 200 elements/ mm3 had an occurrence of 6,5% and 6,7% over the two year period 2005-2006 and 2006-2008 respectively (source: National Centre for AIDS and Istituto Superiore di Sanità) and it is currently taken into account for AIDS diagnosis (Annex A - CDC Guidelines, 2008).

Case definition

According to this legislation, cases are classified as "possible", "probable" and "confirmed". "Possible" and "probable" cases are not considered for surveillance purposes and are defined as cases with clinical criteria and an epidemiological link without laboratory evidence. Conversely, "confirmed" cases are relevant for surveillance of toxoplasmosis and are usually laboratory confirmed through at least one of the following criteria: demonstration of T. gondii in body tissues or fluids, detection of T. gondii nucleic acid in a clinical specimen, T. gondii specific antibody response (IgM, IgG, IgA) in a newborn and, in the end, persistently stable IgG T. gondii titres in an infant of less than 12 months of age.

Notification system in place

According to Government Decree 15th December 1990, toxoplasmosis is a group V mandatorily notifiable disease. All the diseases that are not included in other groups fall within the group V and an annual report containing aggregate data is submitted to the Ministry of Health.

2.10.3 Toxoplasma in animals

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Cantabrian chamois - wild - unspecified - Control and eradication programmes - official sampling		Animal	3	0		
Cats - pet animals - at retail - Clinical investigations		Animal	0	0		0
Cats - pet animals - unspecified - Clinical investigations		Animal	45	6		6
Cats - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	2	0		
Cats - pet animals - unspecified - Control and eradication programmes - official sampling - objective sampling		Animal	2	0		
Cats - pet animals - unspecified - Survey - national survey		Animal	2	1		1
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		Herd	25	0		
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling		Herd	5	0		
Cattle (bovine animals) - at farm - animal sample - Survey - national survey		Animal	56	13		13
Cattle (bovine animals) - unspecified - Clinical investigations		Animal	18	2		2

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Cattle (bovine animals) - unspecified - Control and eradication programmes - official sampling		Animal	32	2	2	
Cattle (bovine animals) - unspecified - Surveillance - HACCP and own checks		Animal	1	0		
Deer - wild - fallow deer - unspecified - Clinical investigations		Animal	6	0		
Deer - wild - roe deer - unspecified - Control and eradication programmes - official sampling		Animal	337	77	77	
Deer - wild - unspecified - Clinical investigations		Animal	12	0		
Deer - wild - unspecified - Control and eradication programmes - official sampling		Animal	12	2	2	
Dogs - pet animals - at catering - Survey - national survey		Animal	0	0		0
Dogs - pet animals - at retail - Clinical investigations		Animal	0	0		0
Dogs - pet animals - unspecified - Clinical investigations		Animal	208	75		75
Dogs - pet animals - unspecified - Control and eradication programmes - official sampling		Animal	1	1	1	
Dogs - pet animals - unspecified - Survey - national survey		Animal	22	9		9
Foxes - wild - unspecified - Control and eradication programmes - official sampling		Animal	38	24	24	
Goats - at farm - animal sample - Clinical investigations		Herd	80	25	1	24

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Goats - at farm - animal sample - Control and eradication programmes - official sampling		Animal	1	0		
Goats - at farm - animal sample - Survey - national survey		Animal	6	0		
Hares - wild - unspecified - Clinical investigations		Animal	5	0		
Hares - wild - unspecified - Control and eradication programmes - official sampling		Animal	187	10	10	
Hares - wild - unspecified - Survey - national survey		Animal	191	36	36	
Mouflons - wild - unspecified - Clinical investigations		Animal	10	2		2
Mouflons - wild - unspecified - Control and eradication programmes - official sampling		Animal	33	5	5	
Pigeons - unspecified - Clinical investigations		Animal	46	38	38	
Pigs - unspecified - Control and eradication programmes - official sampling		Animal	103	0		
Sheep - at farm - animal sample - Clinical investigations		Herd	264	143	10	133
Sheep - at farm - animal sample - Clinical investigations (animal)		Animal	8	7		7
Sheep - at farm - animal sample - Clinical investigations (flock)		Flock	9	4		4
Sheep - at farm - animal sample - Control and eradication programmes - official sampling		Animal	54	26		26

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Sheep - at farm - animal sample - Control and eradication programmes - official sampling (herd)		Herd	2	1	1	
Sheep - at farm - animal sample - Survey - national survey		Animal	9	2		2
Sheep - unspecified - Clinical investigations		Herd	15	7		7
Sheep and goats - at farm - animal sample - Clinical investigations		Animal	115	67		67
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks		Animal	20	1	1	
Sheep and goats - at farm - animal sample - Survey - national survey		Animal	52	32		32
Sheep and goats - unspecified - Control and eradication programmes - official sampling		Animal	40	0		
Sheep and goats - unspecified - Surveillance - HACCP and own checks		Animal	8	1	1	
Solipeds, domestic - horses - at farm - animal sample - Survey - national survey		Animal	3	0		
Solipeds, domestic - horses - unspecified - Clinical investigations		Animal	1	0		
Water buffalos - farmed - at farm - animal sample - Survey - national survey		Animal	67	0		
Wild animals - unspecified - Survey - national survey		Animal	28	2	2	
Wild boars - unspecified - Clinical investigations		Animal	1	0		

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Wild boars - unspecified - Control and eradication programmes - official sampling		Animal	1129	17	17	
Wild boars - wild - unspecified - Clinical investigations		Animal	3	0		
Wolves - wild - unspecified - Control and eradication programmes - official sampling		Animal	1	0		

Footnote:

No information available on the type of the test used The following amendments were made:

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Dogs - pet animals - unspecified - Survey - national survey	Units tested	17	22
	Dogs - pet animals - unspecified - Survey - national survey	Total units positive for Toxoplasma	6	9
	Dogs - pet animals - unspecified - Survey - national survey	Toxoplasma spp., unspecified	6	9
	Dogs - pet animals - at catering - Survey - national survey	Total units positive for Toxoplasma	3	0
	Dogs - pet animals - at catering - Survey - national survey	Toxoplasma spp., unspecified	3	0
	Dogs - pet animals - at catering - Survey - national survey	Units tested	5	0

Date of Modification	Row name	Column name	Old value	New value
2011-12-15	Dogs - pet animals - at retail - Clinical investigations	Total units positive for Toxoplasma	28	0
	Dogs - pet animals - at retail - Clinical investigations	Units tested	81	0
	Dogs - pet animals - at retail - Clinical investigations	Toxoplasma spp., unspecified	28	0
	Dogs - pet animals - unspecified - Clinical investigations	Total units positive for Toxoplasma	47	75
	Dogs - pet animals - unspecified - Clinical investigations	Toxoplasma spp., unspecified	47	75
	Dogs - pet animals - unspecified - Clinical investigations	Units tested	127	208
	Cats - pet animals - at retail - Clinical investigations	Total units positive for Toxoplasma	2	0
	Cats - pet animals - unspecified - Clinical investigations	Total units positive for Toxoplasma	4	6
	Cats - pet animals - unspecified - Clinical investigations	Toxoplasma spp., unspecified	4	6
	Cats - pet animals - unspecified - Clinical investigations	Units tested	38	45
	Cats - pet animals - at retail - Clinical investigations	Toxoplasma spp., unspecified	2	0
	Cats - pet animals - at retail - Clinical investigations	Units tested	7	0

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 2010, the surveillance of rabies in wild animals in north-eastern Italy has been strongly intensified.

The tests carried out in 2010 for rabies diagnosis highlight that the epidemic affecting the Friuli Venezia Giulia region in October 2008 and subsequently the province of Belluno since mid November 2009, reached its maximum in terms of positive cases and territory involvement in 2010. It is noteworthy that most of cases were diagnosed during the first 4 months of 2010, followed by a marked decreasing trend since May.

In fact, both in July and August only a limited number of positive cases were diagnosed and the last two cases were registered in the province of Belluno in November 2010. Also the main affected area remained the province of Belluno, and positive cases were occasionally diagnosed in the bordering territory of the region Friuli Venezia Giulia (Carnia), and of the autonomous provinces of Trento and Bolzano.

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 four emergency oral fox vaccination campaigns, and to domestic animals, i.e. compulsory rabies vaccination of dogs and domestic herbivores at pasture or migratory in at risk areas.

The success of the oral fox vaccination campaigns carried out in 2010 is also confirmed by the fact that the epidemic affected mainly wild animals and the red fox in particular, with a very limited involvement of domestic animals. Rabid cats had no owner or were attributable to feral colonies.

Rabies surveillance in wild animals increased only in Lombardia region (Northern Italy) in the areas bordering the provinces of Bolzano and Trento, in response to the possible spreading of the epidemic westward.

The data about rabies surveillance in the other Italian regions did not show any relevant change. The phylogenetic analysis of the sequence carried out at the IZS delle Venezie revealed that all the Italian isolates belong to the classical rabies virus and to the Western Europe lyssavirus group (Clade WE). As expected, the lyssavirus responsible for the present and the past rabies epidemic in Friuli Venezia Giulia region cluster with the lyssavirus circulating in the bordering.

Countries, in particular Slovenia, Bosnia & Herzegovina as well as former Yugoslavia. Similar features were shown also by rabies isolates of Slovenia (2008/09).

Recent actions taken to control the zoonoses

Following the reappearance of rabies in Northern Italy, Italian authorities, in coordination with Slovenia and Austria, have taken the necessary measures to control the outbreak. The preventive measures implemented in the affected areas include compulsory rabies vaccination of dogs and domestic herbivores at risk of infection (i.e. cows, horses, sheep and goats kept outdoors), prohibition of hunting with dogs, obligation to keep dogs on leash, enhanced passive surveillance in the wild animal population and implementation of oral vaccination of foxes which is the most important and effective measure to fight the spread of the disease. From January to December 2009, 4 oral fox vaccination campaigns have been carried out in Friuli Venezia Giulia region covering the whole regional territory. In addition, according to the further spreading of the epidemic, in December 2009 a new campaign of aerial distribution of vaccine baits has been organized and initiated covering the all territory of north-eastern Italy with a radius of at least 50 km westward to the last detected case of rabies. Furthermore, an informative campaign on the

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risk for the local population, as well as visitors and tourists, has been implemented and a protocol for post-exposure prophylaxis and recommendations for pre-exposure immunisation for individuals at high risk (such as hunters, forest workers, game wardens, veterinarians) have been sent to all healthcare facilities and medical associations in the affected area.

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2.11.2 Lyssavirus (rabies) in animals

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Badgers - wild - Control and eradication programmes - official sampling		Animal	Lombardia	9	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Valle d'Aosta/Vallé e d'Aoste	11	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Piemonte	7	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Toscana	1	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	75	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	80	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Veneto	103	12	12			
Badgers - wild - Control and eradication programmes - official sampling		Animal	Umbria	1	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	69	0				
Badgers - wild - Control and eradication programmes - official sampling		Animal	Liguria	2	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Bats - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	1	0				
Bats - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	1	0				
Bats - wild - Control and eradication programmes - official sampling		Animal	Piemonte	2	0				
Bats - wild - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	1	0				
Bats - wild - Control and eradication programmes - official sampling		Animal	Veneto	1	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Calabria	1	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Umbria	5	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Puglia	2	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Marche	4	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Liguria	4	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Toscana	9	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Lazio	6	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	20	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Sicilia	1	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Campania	2	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Sardegna	1	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Veneto	444	8	8			
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Lombardia	39	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	58	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	81	1	1			
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Piemonte	6	0				
Cats - pet animals - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	7	0				
Cattle (bovine animals) - Control and eradication programmes - official sampling		Animal	Puglia	1	0				
Cattle (bovine animals) - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	2	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Cattle (bovine animals) - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	5	0				
Cattle (bovine animals) - Control and eradication programmes - official sampling		Animal	Veneto	5	1	1			
Deer - wild - fallow deer - Control and eradication programmes - official sampling		Animal	Valle d'Aosta/Vallé e d'Aoste	1	0				
Deer - wild - fallow deer - Control and eradication programmes - official sampling		Animal	Veneto	1	0				
Deer - wild - red deer - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	4	0				
Deer - wild - red deer - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	4	0				
Deer - wild - red deer - Control and eradication programmes - official sampling		Animal	Veneto	106	1	1			
Deer - wild - red deer - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	2	0				
Deer - wild - roe deer - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	84	0				
Deer - wild - roe deer - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	94	1	1			
Deer - wild - roe deer - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze	53	0				

Total units European Bat Classical Lyssavirus -Source of Sampling unit positive for Lyssavirus, Lyssavirus, Region Units tested rabies virus information Lyssavirus unspecified unspecified unspecified (genotype 1) (rabies) Deer - wild - roe deer - Control and eradication 7 476 7 Animal Veneto programmes - official sampling Provincia Dogs - pet animals - Control and eradication Animal Autonoma 21 0 programmes - official sampling Trento Dogs - pet animals - Control and eradication Animal Abruzzo 6 0 programmes - official sampling Dogs - pet animals - Control and eradication Animal Puglia 3 0 programmes - official sampling Dogs - pet animals - Control and eradication Animal Basilicata 2 0 programmes - official sampling Dogs - pet animals - Control and eradication Animal Umbria 8 0 programmes - official sampling Provincia Dogs - pet animals - Control and eradication Autonoma Animal 6 0 programmes - official sampling Bolzano/Boze Dogs - pet animals - Control and eradication 6 0 Animal Liguria programmes - official sampling Dogs - pet animals - Control and eradication Sardegna 2 0 Animal programmes - official sampling Dogs - pet animals - Control and eradication 7 0 Animal Campania programmes - official sampling Dogs - pet animals - Control and eradication 179 0 Animal Veneto programmes - official sampling Dogs - pet animals - Control and eradication Animal Toscana 24 0 programmes - official sampling

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Marche	9	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	45	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Sicilia	4	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Lazio	19	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Piemonte	56	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	47	0				
Dogs - pet animals - Control and eradication programmes - official sampling		Animal	Lombardia	86	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Marche	3	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Lombardia	721	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Campania	5	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Liguria	5	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	1194	5	5			

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Foxes - wild - Control and eradication programmes - official sampling		Animal	Piemonte	295	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	883	8	8			
Foxes - wild - Control and eradication programmes - official sampling		Animal	Umbria	69	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	1150	12	12			
Foxes - wild - Control and eradication programmes - official sampling		Animal	Toscana	16	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Valle d'Aosta/Vallé e d'Aoste	474	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Veneto	1146	147	147			
Foxes - wild - Control and eradication programmes - official sampling		Animal	Lazio	5	0				
Foxes - wild - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	173	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Piemonte	22	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Lazio	1	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	33	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Marten - wild - Control and eradication programmes - official sampling		Animal	Valle d'Aosta/Vallé e d'Aoste	1	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	310	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	8	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Toscana	1	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	26	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Lombardia	80	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Abruzzo	1	0				
Marten - wild - Control and eradication programmes - official sampling		Animal	Veneto	46	4	4			
Pet animals, all - Control and eradication programmes - official sampling		Animal	Lombardia	1	0				
Pet animals, all - Control and eradication programmes - official sampling		Animal	Sicilia	4	0				
Pet animals, all - Control and eradication programmes - official sampling		Animal	Toscana	1	0				
Pet animals, all - Control and eradication programmes - official sampling		Animal	Veneto	9	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Pet animals, all - Control and eradication programmes - official sampling		Animal	Puglia	1	0				
Pet animals, all - Control and eradication programmes - official sampling		Animal	Umbria	1	0				
Pigs - Control and eradication programmes - official sampling		Animal	Liguria	1	0				
Pigs - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	1	0				
Sheep and goats - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	2	0				
Sheep and goats - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	8	0				
Sheep and goats - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	4	0				
Sheep and goats - Control and eradication programmes - official sampling		Animal	Veneto	31	0				
Solipeds, domestic - horses - Control and eradication programmes - official sampling		Animal	Veneto	4	1	1			
Solipeds, domestic - horses - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	1	0				
Solipeds, domestic - horses - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	3	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Solipeds, domestic - horses - Control and eradication programmes - official sampling		Animal	Lazio	1	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Toscana	1	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Bolzano/Boze n	13	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Emilia- Romagna	99	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Friuli-Venezia Giulia	32	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Umbria	2	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Veneto	133	1	1			
Wild animals - Control and eradication programmes - official sampling		Animal	Lombardia	5	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Piemonte	10	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Lazio	2	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Abruzzo	1	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Liguria	1	0				

	Source of information	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Lyssavirus, unspecified	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified	Lyssavirus, unspecified
Wild animals - Control and eradication programmes - official sampling		Animal	Provincia Autonoma Trento	47	0				
Wild animals - Control and eradication programmes - official sampling		Animal	Marche	1	0				
Wolves - wild - Control and eradication programmes - official sampling		Animal	Umbria	3	0				
Wolves - wild - Control and eradication programmes - official sampling		Animal	Abruzzo	1	0				
Wolves - wild - Control and eradication programmes - official sampling		Animal	Lazio	3	0				_

2.12 STAPHYLOCOCCUS INFECTION

2.12.1 General evaluation of the national situation

2.12.2 Staphylococcus in foodstuffs

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	resistant	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Bakery products - cakes - at retail - Control and eradication programmes - official sampling		Batch		10	0					·	
Bakery products - cakes - at retail - Control and eradication programmes - official sampling (OTHER CAKES)		Batch		1	1						
Bakery products - desserts - at catering - Survey - national survey (and confectionery products)		Single		30	0						
Cheeses made from cows' milk - at catering - Control and eradication programmes - official sampling		Single		23	0						
Cheeses made from cows' milk - at processing plant - Clinical investigations		Single		165	6						6
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling		Single		84	1						1
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling		Single		70	5						5

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Cheeses made from cows' milk - at processing plant - Surveillance - HACCP and own checks		Single		105	0						
Cheeses made from cows' milk - at processing plant - Survey - national survey		Single		10	0						
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling		Single		112	0						
Cheeses made from goats' milk - at processing plant - Control and eradication programmes - official sampling		Single		3	1						1
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling		Single		86	0						
Cheeses, made from unspecified milk or other animal milk - at catering - Control and eradication programmes - official sampling		Single		23	0						
Cheeses, made from unspecified milk or other animal milk - at farm - animal sample - Survey - national survey		Batch		1	1						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling		Batch		49	11						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling (single)		Single		210	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling		Single		5	5						5
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks		Batch		24	0						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks (single)		Single		18	0						
Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national survey		Single		21	0						
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling		Single		25	0						
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling - objective sampling		Single		38	11						
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and eradication programmes - official sampling		Batch		90	0						
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey - national survey		Batch		26	0						
Cheeses, made from unspecified milk or other animal milk - curd - at retail - Control and eradication programmes - official sampling		Batch		16	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Control and eradication programmes - official sampling (sheep)		Single		15	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Single		350	0						
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (batch)		Batch		5	4						
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (single)		Single		244	1						1
Crustaceans - unspecified - Control and eradication programmes - official sampling (fresh crustacea)		Batch		1	1						
Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling		Single		11	0						
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance - HACCP and own checks (butter,cream cattle (bovine animals))		Single		10	0						
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey (butter,cream)		Batch		12	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Fish - at catering - Control and eradication programmes - official sampling (fish preparations)		Single		12	0						
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling		Batch		49	1						
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (fresh fishery products)		Single		33	0						
Fishery products, unspecified - at processing plant - Survey - national survey (fresh)		Batch		11	0						
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (fresh)		Single		17	0						
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared)		Single		17	0						
Meat from bovine animals - carcass - at slaughterhouse - animal sample - carcass swabs - Control and eradication programmes - official sampling		Single		10	0						
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling		Single		14	0						
Meat from bovine animals - minced meat - unspecified - Control and eradication programmes - official sampling		Single		11	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Surveillance - HACCP and own checks		Single		28	0						
Meat from broilers (Gallus gallus) - meat products - Control and eradication programmes - official sampling		Single		15	0						
Meat from other animal species or not specified - fresh - at catering - Control and eradication programmes - official sampling		Single		15	0						
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling		Single		518	0						
Meat from other animal species or not specified - fresh - at processing plant - Survey - national survey		Single		33	0						
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling		Batch		14	0						
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling (single)		Single		27	0						
Meat from other animal species or not specified - fresh - at retail - Survey - national survey		Single		1	1						
Meat from other animal species or not specified - fresh - unspecified - Control and eradication programmes - official sampling		Batch		1	1						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Meat from other animal species or not specified - meat preparation - at catering - Control and eradication programmes - official sampling		Single		12	0						
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey		Batch		37	0						
Meat from other animal species or not specified - meat preparation - at processing plant - Survey - national survey		Batch		52	0						
Meat from other animal species or not specified - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		10	0						
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling		Batch		10	0						
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling (single)		Single		26	0						
Meat from other animal species or not specified - meat products - at processing plant - Survey - national survey		Batch		12	0						
Meat from other animal species or not specified - meat products - at retail - Control and eradication programmes - official sampling		Batch		14	0						
Meat from other animal species or not specified - meat products - unspecified - Control and eradication programmes - official sampling		Batch		1	1						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	resistant	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling		Single		10	0						
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling		Single		12	0						
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling		Single		88	0						
Meat from poultry, unspecified - fresh - at processing plant - Control and eradication programmes - official sampling		Batch		1	1						
Meat from poultry, unspecified - fresh - unspecified - Control and eradication programmes - official sampling		Single		22	0						
Milk from other animal species or unspecified - Control and eradication programmes - official sampling		Batch		74	0						
Milk from other animal species or unspecified - Control and eradication programmes - official sampling - objective sampling (single)		Single		9	0						
Milk from other animal species or unspecified - Surveillance - HACCP and own checks		Batch		57	0						
Milk from other animal species or unspecified - at farm - animal sample - Control and eradication programmes - official sampling		Batch		7	1						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Milk from other animal species or unspecified - at farm - animal sample - Survey - national survey		Batch		13	2						
Milk from other animal species or unspecified - at farm - animal sample - Survey - national survey (single)		Single		47	10						
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Batch		80	32						
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (MILK, MILK PRODUCTS, BUTTER AND CHEESE)		Batch		20	0						
Milk from other animal species or unspecified - at processing plant - Survey - national survey		Single		1682	312						
Milk from other animal species or unspecified - at processing plant - Survey - national survey (MILK, MILK PRODUCTS, BUTTER AND CHEESE)		Batch		10	0						
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling		Single		91	0						
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling - objective sampling (MILK PRODUCTS, BUTTER AND CHEESE)		Single		3	1						
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling		Single		22	0						

				1	1						
	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks		Batch		32	0						
Milk, cows' - at catering - Control and eradication programmes - official sampling		Single		10	0						
Milk, cows' - at catering - Control and eradication programmes - official sampling (single)		Single		16	0						
Milk, cows' - at farm - animal sample - Clinical investigations		Single		11	1						
Milk, cows' - at processing plant - Surveillance - HACCP and own checks		Single		42	0						
Milk, cows' - at retail - Control and eradication programmes - official sampling - suspect sampling		Single		9	1						1
Milk, goats' - unspecified - Control and eradication programmes - official sampling		Single		10	0						
Other food - at catering - Control and eradication programmes - official sampling		Batch		1	1						
Other food - unspecified - Control and eradication programmes - official sampling (MIXED FOOD PREPARATIONS)		Batch		3	3						
Other processed food products and prepared dishes - at catering - Control and eradication programmes - official sampling		Single		15	0						
Other processed food products and prepared dishes - at processing plant - Control and eradication programmes - official sampling		Single		22	0						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling (SINGLE)		Single		10	0						
Other processed food products and prepared dishes - pasta - at catering - Control and eradication programmes - official sampling		Batch		1	1						
Other processed food products and prepared dishes - pasta - at processing plant - Control and eradication programmes - official sampling		Single		15	0						
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling		Batch		16	0						
Other processed food products and prepared dishes - unspecified - at catering - Surveillance - HACCP and own checks (gastronomic preparations)		Single		36	0						
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey (gastronomic preparations)		Single		94	0						
Other processed food products and prepared dishes - unspecified - unspecified - Control and eradication programmes - official sampling (gastronomic preparations)		Batch		13	0						
Vegetables - at catering - Control and eradication programmes - official sampling		Single		12	0						
Vegetables - at retail - Survey - national survey		Single		62	0						
Vegetables - products - at catering - Surveillance - HACCP and own checks		Single		20	0						

	Staphylococc us spp., unspecified
Bakery products - cakes - at retail - Control and eradication programmes - official sampling	
Bakery products - cakes - at retail - Control and eradication programmes - official sampling (OTHER CAKES)	1
Bakery products - desserts - at catering - Survey - national survey (and confectionery products)	
Cheeses made from cows' milk - at catering - Control and eradication programmes - official sampling	
Cheeses made from cows' milk - at processing plant - Clinical investigations	
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling	
Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling	
Cheeses made from cows' milk - at processing plant - Surveillance - HACCP and own checks	
Cheeses made from cows' milk - at processing plant - Survey - national survey	
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling	

	Staphylococc us spp., unspecified
Cheeses made from goats' milk - at processing plant - Control and eradication programmes - official sampling	
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling	
Cheeses, made from unspecified milk or other animal milk - at catering - Control and eradication programmes - official sampling	
Cheeses, made from unspecified milk or other animal milk - at farm - animal sample - Survey - national survey	1
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling	11
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling (single)	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and eradication programmes - official sampling - suspect sampling	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks	
Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance - HACCP and own checks (single)	

	Staphylococc us spp., unspecified
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 retail - Control and eradication programmes - official sampling	
Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication programmes - official sampling - objective sampling	11
Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and eradication programmes - official sampling	
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 retail - Control and eradication programmes - official sampling	
Cheeses, made from unspecified milk or other animal milk - curd - unspecified - Control and eradication programmes - official sampling (sheep)	
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling	

	Staphylococc us spp., unspecified
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (batch)	4
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling (single)	
Crustaceans - unspecified - Control and eradication programmes - official sampling (fresh crustacea)	1
Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling	
Dairy products (excluding cheeses) - butter - at processing plant - Surveillance - HACCP and own checks (butter,cream cattle (bovine animals))	
Dairy products (excluding cheeses) - butter - at processing plant - Survey - national survey (butter,cream)	
Fish - at catering - Control and eradication programmes - official sampling (fish preparations)	
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling	1

	Staphylococc us spp., unspecified
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling (fresh fishery products)	
Fishery products, unspecified - at processing plant - Survey - national survey (fresh)	
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (fresh)	
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared)	
Meat from bovine animals - carcass - at slaughterhouse - animal sample - carcass swabs - Control and eradication programmes - official sampling	
Meat from bovine animals - fresh - unspecified - Control and eradication programmes - official sampling	
Meat from bovine animals - minced meat - unspecified - Control and eradication programmes - official sampling	
Meat from broilers (Gallus gallus) - fresh - at slaughterhouse - animal sample - Surveillance - HACCP and own checks	
Meat from broilers (Gallus gallus) - meat products - Control and eradication programmes - official sampling	

	Staphylococc us spp., unspecified
Meat from other animal species or not specified - fresh - at catering - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - fresh - at processing plant - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - fresh - at processing plant - Survey - national survey	
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - fresh - at retail - Control and eradication programmes - official sampling (single)	
Meat from other animal species or not specified - fresh - at retail - Survey - national survey	1
Meat from other animal species or not specified - fresh - unspecified - Control and eradication programmes - official sampling	1
Meat from other animal species or not specified - meat preparation - at catering - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - meat preparation - at catering - Survey - national survey	

	Staphylococc us spp., unspecified
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 - unspecified - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling (single)	
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 retail - Control and eradication programmes - official sampling	
Meat from other animal species or not specified - meat products - unspecified - Control and eradication programmes - official sampling	1
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling	
Meat from pig - meat preparation - unspecified - Control and eradication programmes - official sampling	

	Staphylococc us spp., unspecified
Meat from pig - meat products - unspecified - Control and eradication programmes - official sampling	
Meat from poultry, unspecified - fresh - at processing plant - Control and eradication programmes - official sampling	1
Meat from poultry, unspecified - fresh - unspecified - Control and eradication programmes - official sampling	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling - objective sampling (single)	
Milk from other animal species or unspecified - Surveillance - HACCP and own checks	
Milk from other animal species or unspecified - at farm - animal sample - Control and eradication programmes - official sampling	1
Milk from other animal species or unspecified - at farm - animal sample - Survey - national survey	2
Milk from other animal species or unspecified - at farm - animal sample - Survey - national survey (single)	10

	Staphylococc us spp., unspecified
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling	32
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling (MILK, MILK PRODUCTS, BUTTER AND CHEESE)	
Milk from other animal species or unspecified - at processing plant - Survey - national survey	312
Milk from other animal species or unspecified - at processing plant - Survey - national survey (MILK, MILK PRODUCTS, BUTTER AND CHEESE)	
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling	
Milk from other animal species or unspecified - at retail - Control and eradication programmes - official sampling - objective sampling (MILK PRODUCTS, BUTTER AND CHEESE)	1
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling	
Milk from other animal species or unspecified - unspecified - Surveillance - HACCP and own checks	
Milk, cows' - at catering - Control and eradication programmes - official sampling	

	Staphylococc us spp., unspecified
Milk, cows' - at catering - Control and eradication programmes - official sampling (single)	
Milk, cows' - at farm - animal sample - Clinical investigations	1
Milk, cows' - at processing plant - Surveillance - HACCP and own checks	
Milk, cows' - at retail - Control and eradication programmes - official sampling - suspect sampling	
Milk, goats' - unspecified - Control and eradication programmes - official sampling	
Other food - at catering - Control and eradication programmes - official sampling	1
Other food - unspecified - Control and eradication programmes - official sampling (MIXED FOOD PREPARATIONS)	3
Other processed food products and prepared dishes - at catering - Control and eradication programmes - official sampling	
Other processed food products and prepared dishes - at processing plant - Control and eradication programmes - official sampling	
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling (SINGLE)	

	Staphylococc us spp., unspecified
Other processed food products and prepared dishes - pasta - at catering - Control and eradication programmes - official sampling	1
Other processed food products and prepared dishes - pasta - at processing plant - Control and eradication programmes - official sampling	
Other processed food products and prepared dishes - pasta - at retail - Control and eradication programmes - official sampling	
Other processed food products and prepared dishes - unspecified - at catering - Surveillance - HACCP and own checks (gastronomic preparations)	
Other processed food products and prepared dishes - unspecified - at catering - Survey - national survey (gastronomic preparations)	
Other processed food products and prepared dishes - unspecified - Control and eradication programmes - official sampling (gastronomic preparations)	
Vegetables - at catering - Control and eradication programmes - official sampling	
Vegetables - at retail - Survey - national survey	
Vegetables - products - at catering - Surveillance - HACCP and own checks	

2.12.3 Staphylococcus in animals

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Alpacas - at farm - animal sample - Clinical investigations		Animal		1	1						
Badgers - wild - unspecified - Clinical investigations		Animal		4	4						
Birds - pet animals - at retail - Clinical investigations		Animal		1	1						
Birds - pet animals - unspecified - Clinical investigations		Animal		8	8						
Birds - wild - unspecified - Clinical investigations		Animal		22	8						
Canary - unspecified - Survey - national survey		Animal		1	1						
Cats - pet animals - at farm - animal sample - Clinical investigations		Animal		2	2						
Cats - pet animals - at farm - animal sample - Control and eradication programmes - official sampling		Animal		4	4						
Cats - pet animals - at retail - Clinical investigations		Animal		3	1						
Cats - pet animals - unspecified - Clinical investigations		Animal		45	16						
Cats - pet animals - unspecified - Survey - national survey		Animal		11	2						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		Animal		245	60						
Cattle (bovine animals) - at farm - animal sample - Clinical investigations (herd)		Herd		61	58						1
Cattle (bovine animals) - at farm - animal sample - Survey - national survey		Animal		10238	3344						
Cattle (bovine animals) - at retail - Clinical investigations		Animal		1	1						
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations		Herd		2	2						
Cattle (bovine animals) - meat production animals - fattening cows - at farm - animal sample - Clinical investigations		Herd		12	11						
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		Herd		4	3						
Cattle (bovine animals) - unspecified - Clinical investigations		Herd		24	23						
Deer - wild - roe deer - unspecified - Clinical investigations		Animal		6	6						
Dogs - pet animals - at farm - animal sample - Clinical investigations		Animal		9	6						
Dogs - pet animals - at farm - animal sample - Control and eradication programmes - official sampling		Animal		1	1						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Dogs - pet animals - at farm - animal sample - Survey - national survey		Animal		34	9						
Dogs - pet animals - at farm - animal sample - Survey - national survey (or cats)		Animal		6	1						
Dogs - pet animals - at retail - Clinical investigations		Animal		19	15						10
Dogs - pet animals - unspecified - Clinical investigations		Animal		213	161						
Gallus gallus (fowl) - at farm - animal sample - Clinical investigations		Animal		15	6						
Gallus gallus (fowl) - broilers - at farm - animal sample - Clinical investigations		Herd		4	1						
Gallus gallus (fowl) - broilers - unspecified - Clinical investigations		Herd		1	1						
Goats - at farm - animal sample - Clinical investigations		Animal		153	16						
Goats - at farm - animal sample - Clinical investigations (herd)		Herd		13	8						
Goats - at farm - animal sample - Survey - national survey		Animal		275	29						
Goats - unspecified - Clinical investigations		Herd		7	5						
Hares - wild - unspecified - Clinical investigations		Animal		2	1						
Hedgehogs - wild - unspecified - Clinical investigations		Animal		1	1						

Total units S. aureus, S. aureus, S. aureus, S. aureus, Total units positive for S. methicillin methicillin methicillin methicillin positive for Source of Sampling unit Sample aureus. resistant resistant resistant resistant Units tested S. aureus information Staphylococc methicillin (MRSA) - spa (MRSA) - spa (MRSA) - spa (MRSA) weight MRSA. resistant -type t011 -type t108 -type t034 (MRSA) unspecified Marten - wild - unspecified - Clinical investigations Animal 1 1 Monkeys - zoo animal - at processing plant -5 5 Animal Clinical investigations Monkeys - zoo animal - unspecified - Clinical 5 5 Animal investigations Other animals - unspecified - unspecified - Survey -1 Animal 1 national survey (other pet animals) Other animals - wild - unspecified - Clinical Animal 1 investigations Parrots - unspecified - Survey - national survey Animal 2 2 Pigeons - at farm - animal sample - Clinical 8 Animal 1 investigations Pigeons - at retail - Clinical investigations 1 1 Animal Pigs - at farm - animal sample - Clinical Herd 7 5 investigations Pigs - at farm - animal sample - Survey - national 14 0 Animal survey Pigs - unspecified - Clinical investigations Herd 5 4 Rabbits - at farm - animal sample - Clinical Animal 1 1 investigations Rabbits - at farm - animal sample - Clinical 8 Herd 4

investigations (herd)

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Rabbits - at farm - animal sample - Control and eradication programmes - official sampling		Animal		1	1						
Rabbits - unspecified - Clinical investigations		Herd		9	7						
Ratites (ostrich, emu, nandu) - unspecified - Clinical investigations		Animal		2	1						
Sheep - at farm - animal sample - Clinical investigations		Animal		477	152						
Sheep - at farm - animal sample - Clinical investigations (flock)		Flock		1	1						1
Sheep - at farm - animal sample - Clinical investigations (herd)		Herd		41	36						
Sheep - at farm - animal sample - Survey - national survey		Animal		4433	1902						
Sheep - at processing plant - Clinical investigations		Herd		1	1						
Sheep - at processing plant - Control and eradication programmes - official sampling		Animal		2	1						
Sheep - unspecified - Clinical investigations		Herd		27	26						
Sheep and goats - at farm - animal sample - Clinical investigations		Animal		43	27						
Sheep and goats - at farm - animal sample - Survey - national survey		Animal		313	18						
Solipeds, domestic - donkeys - at farm - animal sample - Clinical investigations		Animal		10	2						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	S. aureus, methicillin resistant (MRSA) - spa -type t011	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Solipeds, domestic - donkeys - at farm - animal sample - Clinical investigations (herd)		Herd		1	1						
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		Animal		24	0						
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)		Herd		18	13						
Solipeds, domestic - horses - at farm - animal sample - Control and eradication programmes - official sampling		Animal		2	2						1
Solipeds, domestic - horses - at farm - animal sample - Control and eradication programmes - official sampling (herd)		Herd		1	1						
Solipeds, domestic - horses - at farm - animal sample - Survey - national survey		Animal		52	9						
Solipeds, domestic - horses - at retail - Clinical investigations		Animal		2	2						
Solipeds, domestic - horses - unspecified - Clinical investigations		Herd		24	24						
Solipeds, domestic - unspecified - Clinical investigations		Herd		3	2						
Water buffalos - at farm - animal sample - Clinical investigations		Animal		11	0						
Water buffalos - at farm - animal sample - Clinical investigations (herd)		Herd		3	2						
Water buffalos - at farm - animal sample - Survey - national survey		Animal		10	3						

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	Total units positive for S. aureus, methicillin resistant (MRSA)	resistant	S. aureus, methicillin resistant (MRSA) - spa -type t108	S. aureus, methicillin resistant (MRSA) - spa -type t034	S. aureus, methicillin resistant (MRSA) - MRSA, unspecified	S. aureus
Water buffalos - unspecified - Clinical investigations		Herd		2	2						
Wild animals - at farm - Clinical investigations		Animal		1	1						
Wild animals - unspecified - Clinical investigations		Animal		16	15						
Wild boars - wild - unspecified - Clinical investigations		Animal		19	11						
Wolves - wild - unspecified - Clinical investigations		Animal		5	5						

	S. intermedius	Staphylococc us spp., unspecified
Alpacas - at farm - animal sample - Clinical investigations		1
Badgers - wild - unspecified - Clinical investigations		4
Birds - pet animals - at retail - Clinical investigations		1
Birds - pet animals - unspecified - Clinical investigations		8
Birds - wild - unspecified - Clinical investigations		8
Canary - unspecified - Survey - national survey		1

	S. intermedius	Staphylococc us spp., unspecified
Cats - pet animals - at farm - animal sample - Clinical investigations		2
Cats - pet animals - at farm - animal sample - Control and eradication programmes - official sampling		4
Cats - pet animals - at retail - Clinical investigations		1
Cats - pet animals - unspecified - Clinical investigations		16
Cats - pet animals - unspecified - Survey - national survey		2
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		60
Cattle (bovine animals) - at farm - animal sample - Clinical investigations (herd)		57
Cattle (bovine animals) - at farm - animal sample - Survey - national survey		3344
Cattle (bovine animals) - at retail - Clinical investigations		1
Cattle (bovine animals) - calves (under 1 year) - for slaughter - unspecified - Clinical investigations		2
Cattle (bovine animals) - meat production animals - fattening cows - at farm - animal sample - Clinical investigations		11

	S. intermedius	Staphylococc us spp., unspecified
Cattle (bovine animals) - meat production animals - fattening cows - unspecified - Clinical investigations		3
Cattle (bovine animals) - unspecified - Clinical investigations		23
Deer - wild - roe deer - unspecified - Clinical investigations		6
Dogs - pet animals - at farm - animal sample - Clinical investigations		6
Dogs - pet animals - at farm - animal sample - Control and eradication programmes - official sampling		1
Dogs - pet animals - at farm - animal sample - Survey - national survey		9
Dogs - pet animals - at farm - animal sample - Survey - national survey (or cats)		1
Dogs - pet animals - at retail - Clinical investigations	1	4
Dogs - pet animals - unspecified - Clinical investigations		161
Gallus gallus (fowl) - at farm - animal sample - Clinical investigations		6
Gallus gallus (fowl) - broilers - at farm - animal sample - Clinical investigations		1
Gallus gallus (fowl) - broilers - unspecified - Clinical investigations		1

	S. intermedius	Staphylococc us spp., unspecified
Goats - at farm - animal sample - Clinical investigations		16
Goats - at farm - animal sample - Clinical investigations (herd)		8
Goats - at farm - animal sample - Survey - national survey		29
Goats - unspecified - Clinical investigations		5
Hares - wild - unspecified - Clinical investigations		1
Hedgehogs - wild - unspecified - Clinical investigations		1
Marten - wild - unspecified - Clinical investigations		1
Monkeys - zoo animal - at processing plant - Clinical investigations		5
Monkeys - zoo animal - unspecified - Clinical investigations		5
Other animals - unspecified - unspecified - Survey - national survey (other pet animals)		1
Other animals - wild - unspecified - Clinical investigations		1
Parrots - unspecified - Survey - national survey		2
Pigeons - at farm - animal sample - Clinical investigations		1

	S. intermedius	Staphylococc us spp., unspecified
Pigeons - at retail - Clinical investigations		1
Pigs - at farm - animal sample - Clinical investigations		5
Pigs - at farm - animal sample - Survey - national survey		
Pigs - unspecified - Clinical investigations		4
Rabbits - at farm - animal sample - Clinical investigations		1
Rabbits - at farm - animal sample - Clinical investigations (herd)		4
Rabbits - at farm - animal sample - Control and eradication programmes - official sampling		1
Rabbits - unspecified - Clinical investigations		7
Ratites (ostrich, emu, nandu) - unspecified - Clinical investigations		1
Sheep - at farm - animal sample - Clinical investigations		152
Sheep - at farm - animal sample - Clinical investigations (flock)		
Sheep - at farm - animal sample - Clinical investigations (herd)		36
Sheep - at farm - animal sample - Survey - national survey		1902

	S. intermedius	Staphylococc us spp., unspecified
Sheep - at processing plant - Clinical investigations		1
Sheep - at processing plant - Control and eradication programmes - official sampling		1
Sheep - unspecified - Clinical investigations		26
Sheep and goats - at farm - animal sample - Clinical investigations		27
Sheep and goats - at farm - animal sample - Survey - national survey		18
Solipeds, domestic - donkeys - at farm - animal sample - Clinical investigations		2
Solipeds, domestic - donkeys - at farm - animal sample - Clinical investigations (herd)		1
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations		
Solipeds, domestic - horses - at farm - animal sample - Clinical investigations (herd)		13
Solipeds, domestic - horses - at farm - animal sample - Control and eradication programmes - official sampling		1
Solipeds, domestic - horses - at farm - animal sample - Control and eradication programmes - official sampling (herd)		1
Solipeds, domestic - horses - at farm - animal sample - Survey - national survey		9

	S. intermedius	Staphylococc us spp., unspecified
Solipeds, domestic - horses - at retail - Clinical investigations		2
Solipeds, domestic - horses - unspecified - Clinical investigations		24
Solipeds, domestic - unspecified - Clinical investigations		2
Water buffalos - at farm - animal sample - Clinical investigations		
Water buffalos - at farm - animal sample - Clinical investigations (herd)		2
Water buffalos - at farm - animal sample - Survey - national survey		3
Water buffalos - unspecified - Clinical investigations		2
Wild animals - at farm - Clinical investigations		1
Wild animals - unspecified - Clinical investigations		15
Wild boars - wild - unspecified - Clinical investigations		11
Wolves - wild - unspecified - Clinical investigations		5

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

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)

The highest risk factor for acquisition of Q-fever is exposure to parturient infected animals. Another risk factor to acquired infection are exposure to migrating sheep flocks. The data are not representative of the actual presence of the bacteria on field, as all samples were negative, apart positive samples deriving by experimental studies.

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2.13.2 Coxiella (Q-fever) in animals

Table Coxiella burnetii (Q fever) in animals

	Source of information	Sampling unit	Units tested	Total units positive for Coxiella (Q- fever)	C. burnetii
All animals - Clinical investigations		Animal	22	0	0
Cattle (bovine animals) - at farm - animal sample - Clinical investigations		Animal	2388	35	35
Cattle (bovine animals) - at farm - animal sample - Control and eradication programmes - official sampling		Animal	446	0	0
Cattle (bovine animals) - at farm - animal sample - Surveillance - HACCP and own checks		Animal	2481	0	0
Cattle (bovine animals) - at farm - animal sample - Survey - national survey		Animal	1570	273	273
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Clinical investigations		Animal	37	0	0
Cattle (bovine animals) - breeding bulls - at farm - animal sample - Surveillance - HACCP and own checks		Animal	37	0	0
Cattle (bovine animals) - dairy cows - at farm - animal sample - Clinical investigations		Animal	36	0	0
Cattle (bovine animals) - dairy cows - at farm - animal sample - Surveillance - HACCP and own checks		Animal	37	0	0
Cattle (bovine animals) - meat production animals - at farm - animal sample - Clinical investigations		Animal	28	0	0

Table Coxiella burnetii (Q fever) in animals

	Source of information	Sampling unit	Units tested	Total units positive for Coxiella (Q- fever)	C. burnetii
Cattle (bovine animals) - meat production animals - at farm - animal sample - Surveillance - HACCP and own checks		Animal	34	0	0
Cattle (bovine animals) - unspecified - Clinical investigations		Animal	85	0	0
Cattle (bovine animals) - unspecified - Surveillance - HACCP and own checks		Animal	199	0	0
Goats - at farm - animal sample - Clinical investigations		Animal	11	3	3
Goats - at farm - animal sample - Survey - national survey		Animal	3	2	2
Insectivores - unspecified - Survey - national survey		Animal	33	0	0
Sheep - at farm - animal sample - Clinical investigations		Animal	118	14	14
Sheep - at farm - animal sample - Control and eradication programmes - official sampling		Animal	28	0	0
Sheep and goats		Animal	14	0	0
Sheep and goats - at farm - animal sample - Clinical investigations		Animal	495	12	12
Sheep and goats - at farm - animal sample - Surveillance - HACCP and own checks		Animal	141	0	0
Sheep and goats - unspecified - Control and eradication programmes - official sampling		Animal	13	0	0

Table Coxiella burnetii (Q fever) in animals

	Source of information	Sampling unit	Units tested	Total units positive for Coxiella (Q- fever)	C. burnetii
Water buffalos - at farm - animal sample - Survey - national survey		Animal	26	0	0
Wild animals		Animal	23	0	0

Footnote:

No information available on dignostic methods used for of the investigations reported

3. INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL RESISTANCE

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3.1 ESCHERICHIA COLI, NON-PATHOGENIC

- 3.1.1 General evaluation of the national situation
- 3.1.2 Antimicrobial resistance in Escherichia coli, non-pathogenic

Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.03	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		16	
	Gentamicin		2	

Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Animals

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Cephalosporins	Cefotaxim		0.25	
Penicillins	Ampicillin		8	

Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.03	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		16	
	Gentamicin		2	
Cephalosporins	Cefotaxim		0.25	
Penicillins	Ampicillin		8	

Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Amphenicols	Chloramphenicol		16	
Tetracyclines	Tetracycline		8	
Fluoroquinolones	Ciprofloxacin		0.03	
Quinolones	Nalidixic acid		16	
Trimethoprim	Trimethoprim		2	
Sulphonamides	Sulphonamides		256	
Aminoglycosides	Streptomycin		16	
	Gentamicin		2	
Cephalosporins	Cefotaxim		0.25	
Penicillins	Ampicillin		8	

3.2 ENTEROCOCCUS, NON-PATHOGENIC

3.2.1 General evaluation of the national situation

3.2.2 Antimicrobial resistance in Enterococcus, non-pathogenic isolates

Table Cut-off values for antibiotic resistance of E. faecalis in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		512	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		32	
Tetracyclines	Tetracycline		2	

Table Cut-off values for antibiotic resistance of E. faecalis in Animals

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Oxazolidines	Linezolid		4	

Table Cut-off values for antibiotic resistance of E. faecalis in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		512	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		32	
Tetracyclines	Tetracycline		2	
Oxazolidines	Linezolid		4	

Table Cut-off values for antibiotic resistance of E. faecalis in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		512	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		32	
Tetracyclines	Tetracycline		2	
Oxazolidines	Linezolid		4	

Table Cut-off values for antibiotic resistance of E. faecium in Animals

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		128	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		1	
Tetracyclines	Tetracycline		2	
Oxazolidines	Linezolid		4	

Table Cut-off values for antibiotic resistance of E. faecium in Feed

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		128	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		1	
Tetracyclines	Tetracycline		2	
Oxazolidines	Linezolid		4	

Table Cut-off values for antibiotic resistance of E. faecium in Food

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Streptomycin		128	
	Gentamicin		32	
Amphenicols	Chloramphenicol		32	
Penicillins	Ampicillin		4	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Streptogramins	Quinupristin/Dalfopristin		1	
Tetracyclines	Tetracycline		2	
Oxazolidines	Linezolid		4	

4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS

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4.1 ENTEROBACTER SAKAZAKII

4.1.1 General evaluation of the national situation

4.1.2 Enterobacter sakazakii in foodstuffs

Table Enterobacter sakazakii in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Enterobacter sakazakii	E. sakazakii
Cheeses made from cows' milk - unspecified - Control and eradication programmes - official sampling		Single		22	0	0
Cheeses made from goats' milk - unspecified - Control and eradication programmes - official sampling		Single		10	0	0
Cheeses made from sheep's milk - unspecified - Control and eradication programmes - official sampling		Single		97	0	0
Cheeses, made from unspecified milk or other animal milk - curd - Control and eradication programmes - official sampling (curd)		Single		24	0	0
Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication programmes - official sampling		Single		57	0	0
Dairy products (excluding cheeses) - Control and eradication programmes - official sampling (curd)		Single		24	0	0

Table Enterobacter sakazakii in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Enterobacter sakazakii	E. sakazakii
Dairy products (excluding cheeses) - ice-cream - unspecified - Control and eradication programmes - official sampling		Batch		18	0	0
Infant formula		Single		15	0	0
Meat from other animal species or not specified - meat products - Control and eradication programmes - official sampling		Single		39	0	0
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling		Single		10	0	0
Milk from other animal species or unspecified - Control and eradication programmes - official sampling		Batch		14	0	0
Milk from other animal species or unspecified - unspecified - Control and eradication programmes - official sampling		Single		52	0	0
Milk, cows' - unspecified - Control and eradication programmes - official sampling		Single		25	0	0
Milk, cows' - unspecified - Surveillance - HACCP and own checks		Single		37	0	0
Other food - Control and eradication programmes - official sampling		Single		9	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 unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg	>200 - <= 400 mg/kg	> 400 mg/kg
Fishery products, unspecified - at catering - Clinical investigations (fresh)		Single		1	1	0	0	0	1
Fishery products, unspecified - at catering - Control and eradication programmes - official sampling (fresh single)		Single		2	1	0	1	0	0
Fishery products, unspecified - at catering - Control and eradication programmes - official sampling (fresh)		Batch		1	1	0	0	0	1
Fishery products, unspecified - at processing plant - Control and eradication programmes - official sampling - objective sampling		Batch		1	1	0	0	0	1
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling		Single		1	1	0	0	0	1
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (fresh)		Single		22	9	0	0	2	7
Fishery products, unspecified - at retail - Control and eradication programmes - official sampling (prepared)		Single		1	1	0	0	0	1

Table Histamine in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg	>200 - <= 400 mg/kg	> 400 mg/kg
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling		Batch		1	1	0	0	0	1
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (fresh single)		Single		512	30	11	10	5	4
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared)		Batch		13	13	6	7	0	0
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling (prepared single)		Single		158	7	1	0	0	6
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling - suspect sampling (fresh)		Single		1	1	0	0	0	1
Fishery products, unspecified - unspecified - Control and eradication programmes - official sampling - suspect sampling (prepared)		Single		1	1	0	0	1	0

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 unit	Sample weight	Units tested	Total units positive for Staphylococc al enterotoxins	Enterotoxin, unspecified
Bakery products - cakes - Control and eradication programmes - official sampling		Single		1	0	
Bakery products - cakes - Surveillance - HACCP and own checks		Single		9	0	
Bakery products - cakes - unspecified - Control and eradication programmes - official sampling (other cakes)		Single		3	2	2
Bakery products - desserts - Control and eradication programmes - official sampling (and confectionery products)		Batch		2	0	
Bakery products - pastry - unspecified - Control and eradication programmes - official sampling		Single		18	0	
Cheeses made from cows' milk - Control and eradication programmes - official sampling		Batch		1	0	
Cheeses made from cows' milk - Control and eradication programmes - official sampling (batch)		Batch	20gr	4	0	

Table Staphylococcal enterotoxins in food

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Cheeses made from cows' milk - at processing plant - Control and eradication programmes - official Single 70 0 sampling - suspect sampling Cheeses made from cows' milk - at processing plant Single 26 0 - Surveillance - HACCP and own checks Cheeses made from cows' milk - at retail - Control 2 0 and eradication programmes - official sampling -Sinale suspect sampling Cheeses made from cows' milk - unspecified -Control and eradication programmes - official Batch 22 0 sampling Cheeses made from cows' milk - unspecified -Control and eradication programmes - official 10 0 Single sampling (single) Cheeses made from goats' milk - Control and Single 5 0 eradication programmes - official sampling Cheeses made from sheep's milk - Control and eradication programmes - official sampling - suspect Single 11 0 sampling Cheeses made from sheep's milk - unspecified -Control and eradication programmes - official Single 68 0 sampling Cheeses, made from unspecified milk or other animal milk - Control and eradication programmes -Single 3 0 official sampling - objective sampling

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Cheeses, made from unspecified milk or other animal milk - at catering - Control and eradication Single 5 0 programmes - official sampling Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and 17 0 Batch eradication programmes - official sampling Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and Single 612 6 6 eradication programmes - official sampling (single) Cheeses, made from unspecified milk or other animal milk - at processing plant - Control and 11 0 Batch eradication programmes - official sampling objective sampling Cheeses, made from unspecified milk or other animal milk - at processing plant - Surveillance -15 0 Batch HACCP and own checks Cheeses, made from unspecified milk or other Single 40 0 animal milk - at processing plant - Surveillance -HACCP and own checks (single) Cheeses, made from unspecified milk or other animal milk - at processing plant - Survey - national Single 0 1 survey Cheeses, made from unspecified milk or other animal milk - at retail - Control and eradication 60 0 Single programmes - official sampling Cheeses, made from unspecified milk or other Batch 5 0 animal milk - at retail - Survey - national survey

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Cheeses, made from unspecified milk or other animal milk - curd - Control and eradication Batch 0 1 programmes - official sampling Cheeses, made from unspecified milk or other animal milk - curd - Control and eradication Single 3 0 programmes - official sampling (single) Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Control and Batch 15 0 eradication programmes - official sampling Cheeses, made from unspecified milk or other animal milk - curd - at processing plant - Survey -5 0 Batch national survey Cheeses, made from unspecified milk or other animal milk - curd - at retail - Control and eradication 10 0 Batch programmes - official sampling Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication 48 2 2 Batch programmes - official sampling Cheeses, made from unspecified milk or other animal milk - unspecified - Control and eradication Single 304 3 3 programmes - official sampling (single) Cheeses, made from unspecified milk or other animal milk - unspecified - Surveillance - HACCP Single 126 0 and own checks Crustaceans - Control and eradication programmes -3 0 Batch official sampling (fresh crustacea)

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Crustaceans - Control and eradication programmes -3 Single 0 official sampling (single) Dairy products (excluding cheeses) - Control and eradication programmes - official sampling (frozen 3 0 Single milk and dairy products (ice-cream)) Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling 3 0 Batch Dairy products (excluding cheeses) - butter - Control and eradication programmes - official sampling Single 2 0 (butter, cream) Dairy products (excluding cheeses) - butter - at processing plant - Surveillance - HACCP and own Single 4 0 checks (butter, cream cattle(bovine animals)) Dairy products (excluding cheeses) - butter unspecified - Surveillance - HACCP and own checks Single 21 0 (and cream) Egg products - Surveillance - HACCP and own Single 1 0 checks Egg products - at catering - Control and eradication 1 0 Batch programmes - official sampling Egg products - liquid - unspecified - Surveillance -HACCP and own checks (liquid, dried eggs) 2438 0 Single Eggs - Control and eradication programmes - official Batch 1 0 sampling

Total units positive for Enterotoxin, Source of Sampling unit Sample Units tested Staphylococc information weight unspecified enterotoxins Fish - Survey - national survey (fish preparations) Single 4 0 Fish - unspecified - Surveillance - HACCP and own Single 38 0 checks (fish preparations) Fishery products, unspecified - Control and 0 1 Single eradication programmes - official sampling Fishery products, unspecified - Control and eradication programmes - official sampling (fresh 5 Batch 0 fishery products) Fishery products, unspecified - Control and eradication programmes - official sampling (single) Single 3 0 Fishery products, unspecified - Survey - national 1 0 Single survey Fishery products, unspecified - at processing plant -Control and eradication programmes - official 5 0 Batch sampling Fishery products, unspecified - at processing plant -Control and eradication programmes - official 10 Batch 0 sampling (prepared) Fishery products, unspecified - unspecified -Single 20 0 Surveillance - HACCP and own checks (fresh) Foodstuffs intended for special nutritional uses -Control and eradication programmes - official 0 Batch 1 sampling

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Foodstuffs intended for special nutritional uses -Control and eradication programmes - official Single 6 0 sampling (single) Honey - Control and eradication programmes -Single 3 0 official sampling (and products thereof) Infant formula - at processing plant - Survey -Batch 1 0 national survey Infant formula - at retail - Control and eradication Single 1 0 programmes - official sampling Meat from broilers (Gallus gallus) - fresh - Control and eradication programmes - official sampling 1 0 Single Meat from guinea fowl - Control and eradication 1 0 Single programmes - official sampling (fresh) Meat from other animal species or not specified fresh - Control and eradication programmes - official 0 Batch 1 sampling Meat from other animal species or not specified -3 0 Batch fresh - Survey - national survey Meat from other animal species or not specified fresh - at processing plant - Control and eradication Batch 0 1 programmes - official sampling - objective sampling Meat from other animal species or not specified fresh - unspecified - Surveillance - HACCP and own Single 59 0

checks

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Meat from other animal species or not specified meat preparation - Control and eradication Batch 3 0 programmes - official sampling Meat from other animal species or not specified meat preparation - Control and eradication Single 9 0 programmes - official sampling (single) Meat from other animal species or not specified -5 0 Batch meat preparation - Survey - national survey Meat from other animal species or not specified meat products - Control and eradication Batch 3 0 programmes - official sampling Meat from other animal species or not specified -Batch 5 0 meat products - Survey - national survey Meat from other animal species or not specified meat products - at processing plant - Control and 11 0 Batch eradication programmes - official sampling Meat from other animal species or not specified meat products - at processing plant - Control and 1 0 Single eradication programmes - official sampling (single) Meat from other animal species or not specified meat products - unspecified - Control and 19 0 Single eradication programmes - official sampling Meat from other animal species or not specified meat products - unspecified - Surveillance - HACCP 108 25 25 Single

and own checks

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc al enterotoxins	Enterotoxin, unspecified
Meat from other animal species or not specified - meat products - unspecified - Surveillance - HACCP and own checks (and thereof)		Single		121	0	
Meat from other animal species or not specified - minced meat - Control and eradication programmes - official sampling		Single		3	0	
Meat from pig - fresh - Control and eradication programmes - official sampling		Single		1	0	
Meat, mixed meat - Surveillance - HACCP and own checks		Single		3	0	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling		Single		7	0	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling (batch)		Batch		4	0	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling (from water-buffalos)		Single		6	0	
Milk from other animal species or unspecified - Control and eradication programmes - official sampling (milk products)		Single		10	0	
Milk from other animal species or unspecified - Surveillance - HACCP and own checks		Batch		1	0	
Milk from other animal species or unspecified - at processing plant - Control and eradication programmes - official sampling		Batch		14	0	

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Milk from other animal species or unspecified - at processing plant - Control and eradication Batch 10 0 programmes - official sampling (milk products, butter and cheese) Milk from other animal species or unspecified - at processing plant - Surveillance - HACCP and own Batch 15 0 checks Milk from other animal species or unspecified - at processing plant - Survey - national survey (milk Batch 12 0 products, butter and cheese) Milk from other animal species or unspecified unspecified - Control and eradication programmes -10 0 Single official sampling Milk from other animal species or unspecified unspecified - Surveillance - HACCP and own checks Single 12 0 Milk from other animal species or unspecified unspecified - Surveillance - HACCP and own checks Single 10 0 (frozen milk and dairy products ice cream) Milk, cows' - at processing plant - Clinical Single 1 0 investigations (cattle bovine animals) Molluscan shellfish - Control and eradication 4 0 Single programmes - official sampling Molluscan shellfish - Control and eradication 2 0 Batch programmes - official sampling (batch)

Total units positive for Source of Sampling unit Sample Enterotoxin, Units tested Staphylococc information unspecified weight enterotoxins Molluscan shellfish - Control and eradication programmes - official sampling (mollusks products) Single 1 0 Molluscan shellfish - Surveillance - HACCP and own Single 1 0 checks Molluscan shellfish - at catering - Control and 1 0 Batch eradication programmes - official sampling Molluscan shellfish - at catering - Control and eradication programmes - official sampling (mollusks 0 Batch 1 products) Other food - at processing plant - Control and Batch 5 0 eradication programmes - official sampling Other processed food products and prepared dishes - Control and eradication programmes - official Single 2 0 sampling Other processed food products and prepared dishes - Control and eradication programmes - official 0 Batch 4 sampling (batch) Other processed food products and prepared dishes 3 0 - at catering - Control and eradication programmes -Batch official sampling Other processed food products and prepared dishes - at retail - Surveillance - HACCP and own checks Batch 1 0 Other processed food products and prepared dishes - pasta - Control and eradication programmes -Single 6 0 official sampling

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc al enterotoxins	Enterotoxin, unspecified
Other processed food products and prepared dishes - pasta - Control and eradication programmes - official sampling (batch)		Batch		2	0	
Other processed food products and prepared dishes - pasta - unspecified - Surveillance - HACCP and own checks		Single		152	0	
Other processed food products and prepared dishes - unspecified - unspecified - Control and eradication programmes - official sampling (gastronomic preparations)		Single		20	0	
Other processed food products and prepared dishes - unspecified - unspecified - Surveillance - HACCP and own checks		Single		44	0	
Sauce and dressings - unspecified - Surveillance - HACCP and own checks (sauces)		Single		11	0	

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.

Italy - 2010 618

Table Foodborne Outbreaks: summarised data

	Number of outbreaks	Human cases	Hospitalized	Deaths	Strong evidence Number of Outbreaks	Total number of outbreaks
Salmonella - S. Typhimurium	6	15	unknown	unknown	0	6
Salmonella - S. Enteritidis	11	45	unknown	unknown	0	11
Salmonella - Other serovars	90	515	unknown	unknown	0	90
Campylobacter	6	12	unknown	unknown	0	6
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 -	0	unknown	unknown	unknown	0	0
Bacillus - B. cereus	1	5	unknown	unknown	0	1
Bacillus - Other Bacillus	0	unknown	unknown	unknown	0	0
Staphylococcal enterotoxins	3	7	unknown	unknown	0	3
Clostridium - Cl. botulinum	0	unknown	unknown	unknown	0	0
Clostridium - Cl. perfringens	6	74	unknown	unknown	0	6
Clostridium - Other Clostridia	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Brucella	0	unknown	unknown	unknown	0	0

Italy - 2010 619

	Number of outbreaks	Human cases	Hospitalized	Deaths	Strong evidence Number of Outbreaks	Total number of outbreaks
Other Pactorial agents					Stro	Tot
Other Bacterial agents - Shigella	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Other Bacterial	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	1	2	unknown	unknown	0	1
Viruses - Norovirus	2	42	unknown	unknown	0	2
Viruses - Hepatitis viruses	20	53	unknown	unknown	0	20
Viruses - Other Viruses	1	11	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	78	424	unknown	unknown	0	78

Italy - 2010 620

The following amendments were made:

Date of Modification	Row name	Column name	Old value
2012-02-29	Staphylococcal enterotoxins	Total number of outbreaks	0
	Staphylococcal enterotoxins	Weak evidence or no vehicle outbreaks - Human cases	unknown
	S. Typhimurium	Weak evidence or no vehicle outbreaks - Human cases	5
	Staphylococcal enterotoxins	Weak evidence or no vehicle outbreaks - Number of outbreaks	0

Date of Modification	New value
2012-02-29	3
	7
	15
	3