

IRELAND

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

TRENDS AND SOURCES OF ZOONOSSES AND ZOOBOTIC AGENTS IN HUMANS, FOODSTUFFS, ANIMALS AND FEEDINGSTUFFS

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

IN 2008

INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: **Ireland**

Reporting Year:

Laboratory name	Description	Contribution
DAFF Regional Veterinary Laboratories (RVLs)	DAFF Regional Veterinary Laboratories located at Dublin, Sligo, Athlone, Kilkenny, Limerick and Cork.	Samples taken from carcass and clinical pathology submissions to the RVLs for purposes of disease diagnosis and control.

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 Ireland during the year 2008 .

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

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

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

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

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

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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.

Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
			Year		Year		Year		Year
Cattle (bovine animals)	calves (under 1 year)			7269		1935930			
	in total	109542		1666318		6232527			
Ducks	meat production flocks	16	2007						
Gallus gallus (fowl)	broilers	300	2007	63514000	2007	10000000	2007	250	2007
	grandparent breeding flocks for meat production line	18	2007	79174	2007	83000	2007	7	2007
	in total	811	2007	66098174	2007	12713000	2007	594	2007
	laying hens	400	2007	1900000	2007	2000000	2007	267	2007
	parent breeding flocks for meat production line	93	2007	605000	2007	630000	2007	70	2007
Pigs	breeding animals ¹⁾	35		1082		18411			
	breeding animals - unspecified - sows and gilts ²⁾	300		74778		148700			
	fattening pigs	68		2446774		123110			
	in total ³⁾	368		2527596		148700			
	mixed herds ⁴⁾	265				130286			

Table Susceptible animal populations

Comments:

- ¹⁾ 1082 boars slaughtered, 18411 live sows
- ²⁾ slaughter numbers are sows, livestock numbers are sows
- ³⁾ livestock numbers are sows
- ⁴⁾ Livestock nos are sows

2. INFORMATION ON SPECIFIC ZONOSSES AND ZOONOTIC AGENTS

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

2.1 SALMONELLOSIS

2.1.1 General evaluation of the national situation

2.1.2 Salmonellosis in humans

2.1.3 Salmonella in foodstuffs

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Agona	S. Brandenburg	S. Bredeney	S. Enteritidis	S. Hadar	S. Infantis
Meat from broilers (Gallus gallus) - fresh - at processing plant - Monitoring (Processing source 3)	DAFF	batch	Various	219	33	8					
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0	0			0		0
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	20	0						
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	4371	170	5			1		3
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	OFML	single	25g	2	0						
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	OFML	single	25g	841	0						
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)	CVRL	single	25g	0	0	0					

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Agona	S. Brandenburg	S. Bredeney	S. Enteritidis	S. Hadar	S. Infantis
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	311	1	1					
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	5421	3	3					
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	463	0						
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0			0		0	0
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	109	4						
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1221	18			1		1	1
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	8	4						
Meat from duck - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	4	0						
Meat from duck - fresh - at processing plant - Monitoring (Processing source 3)	DAFF	batch	Various	12	7		5				

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Agona	S. Brandenburg	S. Bredeney	S. Enteritidis	S. Hadar	S. Infantis
Meat from duck - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	59	0						
Meat from duck - meat products - at retail - Surveillance	OFML	single	25g	27	0						
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	1	0						
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	0	0						
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	16	0						
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	29	0						
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0						
Meat from poultry, unspecified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	23	1						
Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	DAFF	batch	Various	6	0						
Meat from turkey - fresh - at processing plant - Monitoring (Processing source 3)	DAFF	batch	Various	6	0						
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Agona	S. Brandenburg	S. Bredeney	S. Enteritidis	S. Hadar	S. Infantis
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	12	0						
Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	243	18						
Meat from turkey - meat products - at retail - Surveillance	OFML	single	25g	117	0						
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	81	1						
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1142	0						
Meat from turkey - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	64	0						
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0					0	
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	6	0						
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	257	4					1	

Table Salmonella in poultry meat and products thereof

	S. Kentucky	S. Kottbus	S. Livingstone	S. Mbandaka	S. Minnesota	S. Newport	S. Nottingham	S. Ohio	S. Paratyphi B	S. Schwarzengr und	S. Tennessee
Meat from broilers (Gallus gallus) - fresh - at processing plant - Monitoring (Processing source 3)	23										1
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	0	0	0	0	0	0		0	0		0
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 2)											
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	133	2	1	1	16	1		1	1		1
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance											
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance											
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)											
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)											
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)								0	0		

Table Salmonella in poultry meat and products thereof

	S. Kentucky	S. Kottbus	S. Livingstone	S. Mbandaka	S. Minnesota	S. Newport	S. Nottingham	S. Ohio	S. Paratyphi B	S. Schwarzengr und	S. Tennessee
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	1								2		
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)								1	11		
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at retail - Surveillance											
Meat from duck - at processing plant - Surveillance (Processing source 1)											
Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from duck - fresh - at processing plant - Monitoring (Processing source 3)										2	
Meat from duck - fresh - at processing plant - Surveillance (Processing source 1)											
Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from duck - meat products - at retail - Surveillance											
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)											
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											

Table Salmonella in poultry meat and products thereof

	S. Kentucky	S. Kottbus	S. Livingstone	S. Mbandaka	S. Minnesota	S. Newport	S. Nottingham	S. Ohio	S. Paratyphi B	S. Schwarzengr und	S. Tennessee
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)											
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from poultry, unspecified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)							1				
Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)											
Meat from turkey - fresh - at processing plant - Monitoring (Processing source 3)											
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	0	0						0	0		
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 2)											
Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	12	3						1	1		
Meat from turkey - meat products - at retail - Surveillance											
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)											
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)							1				

Table Salmonella in poultry meat and products thereof

	S. Kentucky	S. Kottbus	S. Livingstone	S. Mbandaka	S. Minnesota	S. Newport	S. Nottingham	S. Ohio	S. Paratyphi B	S. Schwarzengrund	S. Tennessee
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from turkey - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)											
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											

	S. Thompson	S. Typhimurium	S. Virchow	Salmonella spp., unspecified
Meat from broilers (Gallus gallus) - fresh - at processing plant - Monitoring (Processing source 3)		1		
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)		0		
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 2)				
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)		4		

Table Salmonella in poultry meat and products thereof

	S. Thompson	S. Typhimurium	S. Virchow	Salmonella spp., unspecified
Meat from broilers (<i>Gallus gallus</i>) - fresh - at retail - Surveillance				
Meat from broilers (<i>Gallus gallus</i>) - meat products - at retail - Surveillance				
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)				
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from broilers (<i>Gallus gallus</i>) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)		0	0	
Meat from broilers (<i>Gallus gallus</i>) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)		1		
Meat from broilers (<i>Gallus gallus</i>) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)		1	2	
Meat from broilers (<i>Gallus gallus</i>) - meat products - raw but intended to be eaten cooked - at retail - Surveillance				4

Table Salmonella in poultry meat and products thereof

	S. Thompson	S. Typhimurium	S. Virchow	Salmonella spp., unspecified
Meat from duck - at processing plant - Surveillance (Processing source 1)				
Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from duck - fresh - at processing plant - Monitoring (Processing source 3)				
Meat from duck - fresh - at processing plant - Surveillance (Processing source 1)				
Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from duck - meat products - at retail - Surveillance				
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)				
Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from poultry, unspecified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				

Table Salmonella in poultry meat and products thereof

	S. Thompson	S. Typhimurium	S. Virchow	Salmonella spp., unspecified
Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)				
Meat from turkey - fresh - at processing plant - Monitoring (Processing source 3)				
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)		0		
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 2)				
Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)		1		
Meat from turkey - meat products - at retail - Surveillance				
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)				
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from turkey - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	0	0		
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				

Table Salmonella in poultry meat and products thereof

	S. Thompson	S. Typhimurium	S. Virchow	Salmonella spp., unspecified
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	1	2		

Footnote:

The sampling program for all samples was Surveillance except those from Processing source 3; the sampling program was Monitoring for these.

The following amendments were made:

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		4
	Meat from duck - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Meat from duck - at processing plant - Surveillance (Processing source 1)	Units tested	4	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		59
	Meat from duck - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Meat from duck - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	59	0
	Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		0
	Meat from duck - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		243
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		18

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		12
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kottbus		3
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Ohio		1
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Paratyphi B		1
	Meat from turkey - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		1
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	1	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	S. Paratyphi B	1	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	S. Ohio	1	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	S. Kottbus	3	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	S. Kentucky	12	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	18	0
	Meat from turkey - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	243	0
	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1142

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Units tested	1142	0
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		257
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		4
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Hadar		1
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Thompson		1
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		2
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	2	0
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Thompson	1	0
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Hadar	1	0
	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	4	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	257	0
	Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	Source of information		DAFF
	Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	Sampling unit		batch
	Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	Sample weight		Various
	Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	Units tested		6
	Meat from turkey - carcass - at processing plant - Monitoring (Processing source 3)	Total units positive for Salmonella spp.		0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		4371

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		170
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		5
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Enteritidis		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Infantis		3
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		133
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kottbus		2
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Livingstone		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Mbandaka		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Minnesota		16
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Newport		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Ohio		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Paratyphi B		1

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Tennessee		1
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		4
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	4	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Tennessee	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Paratyphi B	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Ohio	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Newport	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Minnesota	16	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Mbandaka	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Livingstone	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Kottbus	2	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Kentucky	133	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Infantis	3	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Enteritidis	1	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	S. Agona	5	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	170	0
	Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	4371	0
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		5421
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		3
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		3
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)	S. Agona	3	0
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)	Total units positive for Salmonella spp.	3	0
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing Source 1)	Units tested	5421	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1221
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		18
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Bredeney		1
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Hadar		1
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Infantis		1

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Ohio		1
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Paratyphi B		11
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		1
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Virchow		2
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Virchow	2	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	1	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Paratyphi B	11	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Ohio	1	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Infantis	1	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Hadar	1	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Bredeney	1	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	18	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	1221	0

Table Salmonella in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Manchester	S. Mbandaka	S. Typhimurium	Salmonella spp., unspecified
Cheeses made from cows' milk - at retail - Surveillance	OFML	single	25g	1	0					
Cheeses made from goats' milk - at retail - Surveillance	OFML	single	25g	8	0					
Cheeses made from sheep's milk - at retail - Surveillance	OFML	single	25g	2	0					
Cheeses made from sheep's milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	1	0					
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance	OFML	single	25g	6	0					
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	23	0					
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	1	0					
Cheeses, made from unspecified milk or other animal milk - unspecified - at retail - Surveillance	OFML	single	25g	201	0					
Cheeses, made from unspecified milk or other animal milk - unspecified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	6	0					
Cheeses, made from unspecified milk or other animal milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	553	2					2
Dairy products (excluding cheeses) - butter - at retail - Surveillance	OFML	single	25g	1	0					

Table Salmonella in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Manchester	S. Mbandaka	S. Typhimurium	Salmonella spp., unspecified
Dairy products (excluding cheeses) - butter - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	15	0					
Dairy products (excluding cheeses) - cream - at retail - Surveillance	OFML	single	25g	55	0					
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	OFML	single	25g	71	0					
Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0					2
Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	8468	2					2
Dairy products (excluding cheeses) - dairy products, not specified - at retail - Surveillance	OFML	single	25g	7	0					
Dairy products (excluding cheeses) - dairy products, not specified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	325	0					
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	481	0					
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	OFML	single	25g	87	0					
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0		0	0		
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	380	0					

Table Salmonella in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Manchester	S. Mbandaka	S. Typhimurium	Salmonella spp., unspecified
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	9622	9		7	2		
Milk from other animal species or unspecified - at retail - Surveillance	OFML	single	25g	5	0					
Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0					
Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	61	0					
Milk from other animal species or unspecified - pasteurised - at retail - Surveillance	OFML	single	25g	8	0					
Milk from other animal species or unspecified - raw - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0					
Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	13	0					
Milk from other animal species or unspecified - raw - at retail - Surveillance	OFML	single	25g	1	0					
Milk from other animal species or unspecified - raw milk for manufacture - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	10	0					
Milk, goats' - raw - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	10	0					

Footnote:

The sampling program for all samples was Surveillance. Samples from Processing source 4, DSL: batches comprised of 1-20 samples each of 25g weight.

The following amendments were made:

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Cheeses, made from unspecified milk or other animal milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	Units tested	552	553
2009-12-08	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		8468
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		2
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Salmonella spp., unspecified		2
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	2	0
	Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance (Processing source 1)	Units tested	8468	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		9622
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		9
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Manchester		7
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Mbandaka		2
	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		61
	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		13
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 1)	Units tested	9622	0
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	9	0
	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 1)	S. Manchester	7	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 1)	S. Mbandaka	2	0
	Milk from other animal species or unspecified - pasteurised - at processing plant - Surveillance (Processing source 1)	Units tested	61	0
	Milk from other animal species or unspecified - raw - at processing plant - Surveillance (Processing source 1)	Units tested	13	0

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat from bovine animals - carcass - at processing plant - Surveillance (Processing source 1)	CVRL	single	Various	0	0						
Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	Various	340	0						
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0			0	0	0	0
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	40	0						
Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	17488	50			1	2	3	3
Meat from bovine animals - fresh - at retail - Surveillance	OFML	single	25g	1	0						
Meat from bovine animals - meat products - at retail - Surveillance	OFML	single	25g	296	0						
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0		0				
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	309	0						
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	4420	4		4				
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	249	6		6				

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						0
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	144	0						
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	9289	7						4
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	5	0						
Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	19	0						
Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0						
Meat from other animal species or not specified - meat products - at retail - Surveillance	OFML	single	25g	173	0						
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0		0				
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1429	3		3				
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail	OFML	single	25g	61	0						

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0		0		0	0	
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	4583	37		2		1	1	
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	7	0						
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	14	0						
Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)	CVRL	single	Various	0	0						
Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	Various	322	1						
Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0				0	0	
Meat from pig - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	30	0						
Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1714	55				5	3	
Meat from pig - meat products - at retail - Surveillance	OFML	single	25g	1107	10			1			
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0		0				

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	263	5		2				
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	8591	32		31				
Meat from pig - meat products - cooked, ready-to-eat - at retail	OFML	single	25g	351	2		2				
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0	0			0	0	0
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	130	1						
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	3988	89	1			6	20	1
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	714	9				1		
Meat from pig - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	2	0						
Meat from pig - offal - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	1	0						
Meat from rabbit - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0						
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	20	0						

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1318	1						
Meat from sheep - meat products - at retail - Surveillance	OFML	single	25g	28	0						
Meat from sheep - meat products - cooked, ready -to-eat - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from sheep - meat products - cooked, ready -to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	16	0						
Meat from sheep - meat products - cooked, ready -to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	203	0						
Meat from sheep - meat products - cooked, ready -to-eat - at retail - Surveillance	OFML	single	25g	34	0						
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	9	0						
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	889	1						
Meat from sheep - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	3	0						
Meat from sheep - offal - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	3	0						

Table Salmonella in red meat and products thereof

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Brandenburg	S. Bredeney	S. Derby	S. Dublin
Meat, mixed meat - meat products - at retail - Surveillance	OFML	single	25g	45	0						
Meat, mixed meat - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	21	0						
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	23	0						
Meat, mixed meat - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	7	0						
Other products of animal origin - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	796	3						
	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from bovine animals - carcass - at processing plant - Surveillance (Processing source 1)											
Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)					0	0			0	0	0
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 2)											

Table Salmonella in red meat and products thereof

	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)					19	1			1	1	1
Meat from bovine animals - fresh - at retail - Surveillance											
Meat from bovine animals - meat products - at retail - Surveillance											
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)											
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)											
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)							0				
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)							1				
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from other animal species or not specified - meat products - at retail - Surveillance											
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)											
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail											
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)		0	0		0				0	0	
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)		7	1		2				1	10	
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at retail - Surveillance											
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance											

Table Salmonella in red meat and products thereof

	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)											
Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)		0				0				0	
Meat from pig - fresh - at processing plant - Surveillance (Processing source 2)											
Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)		1				7				1	
Meat from pig - meat products - at retail - Surveillance											
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)					0						
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)								3			
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)					1						
Meat from pig - meat products - cooked, ready-to-eat - at retail											
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	0	0		0		0					
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											

Table Salmonella in red meat and products thereof

	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	2	3		5		9					
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance											
Meat from pig - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from pig - offal - at processing plant - Surveillance (Processing source 2)											
Meat from rabbit - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)					0						
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 2)											
Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)					1						
Meat from sheep - meat products - at retail - Surveillance											
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)											
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)											
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											

Table Salmonella in red meat and products thereof

	S. Enteritidis	S. Give	S. Hadar	S. Infantis	S. Kentucky	S. London	S. Newport	S. Nottingham	S. Reading	S. Rissen	S. Saintpaul
Meat from sheep - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)											
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)											
Meat from sheep - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Meat from sheep - offal - at processing plant - Surveillance (Processing source 2)											
Meat, mixed meat - meat products - at retail - Surveillance											
Meat, mixed meat - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)											
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance											
Meat, mixed meat - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)											
Other products of animal origin - at processing plant - Surveillance (Processing source 1)										0	
Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)										2	

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat from bovine animals - carcass - at processing plant - Surveillance (Processing source 1)				
Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	0			
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 2)				
Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	18			
Meat from bovine animals - fresh - at retail - Surveillance				
Meat from bovine animals - meat products - at retail - Surveillance				
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)				
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	0			

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	2			
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance				
Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from other animal species or not specified - meat products - at retail - Surveillance				
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)				
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail				
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	0			

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	12			
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at retail - Surveillance				
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance				
Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)	0			
Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	1			
Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	0	0		0
Meat from pig - fresh - at processing plant - Surveillance (Processing source 2)				
Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	36	1		1
Meat from pig - meat products - at retail - Surveillance	9			
Meat from pig - meat products - cooked, ready-to -eat - at processing plant - Surveillance (Processing source 1)				
Meat from pig - meat products - cooked, ready-to -eat - at processing plant - Surveillance (Processing source 2)				

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from pig - meat products - cooked, ready-to-eat - at retail				
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	0			0
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	1			
Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	40			2
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance	8			
Meat from pig - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Meat from pig - offal - at processing plant - Surveillance (Processing source 2)				
Meat from rabbit - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)				
Meat from sheep - fresh - at processing plant - Surveillance (Processing source 2)				
Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat from sheep - meat products - at retail - Surveillance				
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)				
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)				
Meat from sheep - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)			0	
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)			1	
Meat from sheep - minced meat - intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Meat from sheep - offal - at processing plant - Surveillance (Processing source 2)				
Meat, mixed meat - meat products - at retail - Surveillance				

Table Salmonella in red meat and products thereof

	S. Typhimurium	S. Virchow	S. enterica subsp. arizonae	Salmonella spp., unspecified
Meat, mixed meat - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)				
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance				
Meat, mixed meat - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)				
Other products of animal origin - at processing plant - Surveillance (Processing source 1)	0			
Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	1			

Footnote:

The sampling program for all samples was surveillance.

The following amendments were made:

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	14	0
2009-12-08	Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		Various
	Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		340
	Meat from bovine animals - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Meat from bovine animals - carcass - at processing plant - Surveillance (Processing source 1)	Units tested	340	0
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		17488
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		50

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Brandenburg		1
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Bredeney		2
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Derby		3
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Dublin		3
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		19
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. London		1
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Reading		1
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Rissen		1
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Saintpaul		1
	Meat from bovine animals - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		18
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	50	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	17488	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		4420
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		4
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		4
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	4	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Units tested	4420	0
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		9289
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		7
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	7	0
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	9289	0
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Dublin		4
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Dublin	4	0
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Newport		1
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Newport	1	0
	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		2

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from bovine animals - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	2	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Brandenburg	1	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Bredeney	2	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Derby	3	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	S. Agona	4	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Dublin	3	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Kentucky	19	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. London	1	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Reading	1	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Rissen	1	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Saintpaul	1	0
	Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	18	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	0	8
	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	8	14
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1429

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		3
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		3
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	S. Agona	3	0
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	3	0
	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Units tested	1429	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		4583
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		37
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		2

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Bredeney		1
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Derby		1
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Give		7
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Hadar		1
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		2
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Reading		1
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Rissen		10
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		12

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	12	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Rissen	10	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Reading	1	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Kentucky	2	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Hadar	1	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Give	7	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Derby	1	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Bredeney	1	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Agona	2	0
	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	37	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	4583	0
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		Various
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		322
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		1
	Meat from pig - carcass - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		1
	Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	1	0
	Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	1	0
	Meat from pig - carcass - at processing plant - Surveillance (Processing source 1)	Units tested	322	0
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1714
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		55
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Bredeney		5
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Derby		3
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Give		1
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. London		7
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Rissen		1
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		36
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Virchow		1
	Meat from pig - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Salmonella spp., unspecified		1
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	Salmonella spp., unspecified	1	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Virchow	1	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	36	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Rissen	1	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. London	7	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Give	1	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Derby	3	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	S. Bredeney	5	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	55	0
	Meat from pig - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	1714	0
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		8591
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		32

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Agona		31
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		1
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	S. Kentucky	1	0
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	S. Agona	31	0
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	32	0
	Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Units tested	8591	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		3988

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		89
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Aberdeen		1
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Bredeney		6
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Derby		20
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Dublin		1
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Enteritidis		2
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Give		3
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Infantis		5
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. London		9
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		40

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Salmonella spp., unspecified		2
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Salmonella spp., unspecified	2	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	40	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. London	9	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Infantis	5	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Give	3	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Enteritidis	2	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Dublin	1	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Derby	20	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Bredeney	6	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. Aberdeen	1	0
	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	89	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	3988	0
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		796
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		3
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Rissen		2
	Other products of animal origin - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		1
	Other products of animal origin - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	1	0
	Other products of animal origin - at processing plant - Surveillance (Processing source 1)	S. Rissen	2	0
	Other products of animal origin - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	3	0
	Other products of animal origin - at processing plant - Surveillance (Processing source 1)	Units tested	796	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		889
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		1
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. enterica subsp. arizonae		1
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	S. enterica subsp. arizonae	1	0
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	1	0
	Meat from sheep - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 1)	Units tested	889	0
	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		203
	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 1)	Units tested	203	0
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1318
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		1
	Meat from sheep - fresh - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Kentucky		1

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)	S. Kentucky	1	0
	Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	1	0
	Meat from sheep - fresh - at processing plant - Surveillance (Processing source 1)	Units tested	1318	0
	Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	Source of information		OFML
	Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	Sampling unit		single
	Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	Sample weight		25g
	Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	Units tested		1
	Meat from farmed game- land mammals - meat products - cooked, ready-to-eat - at retail - Surveillance	Total units positive for Salmonella spp.		0

Table Salmonella in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Duisburg	S. Enteritidis	S. Kentucky	S. Livingstone	S. Mbandaka	S. Typhimurium
Bakery products - at retail - Surveillance	OFML	single	25g	5	0						
Bakery products - bread - at retail - Surveillance	OFML	single	25g	15	0						
Bakery products - cakes - at retail - Surveillance	OFML	single	25g	137	0						
Bakery products - desserts - at retail - Surveillance	OFML	single	25g	151	0						
Bakery products - pastry - at retail - Surveillance	OFML	single	25g	67	0						
Beverages, non-alcoholic - soft drinks - at retail - Surveillance	OFML	single	25g	41	0						
Cereals and meals - at retail - Surveillance	OFML	single	25g	219	0						
Chocolate - at retail - Surveillance	OFML	single	25g	2	0						
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance	OFML	single	25g	16	0						
Confectionery products and pastes - at retail - Surveillance	OFML	single	25g	26	0						
Crustaceans - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	13	0						
Crustaceans - at retail - Surveillance	OFML	single	25g	43	0						
Crustaceans - unspecified - cooked - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	4	0						
Crustaceans - unspecified - cooked - at retail - Surveillance	OFML	single	25g	35	0						
Crustaceans - unspecified - raw - at retail - Surveillance	OFML	single	25g	5	0						
Egg products - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0	0					

Table Salmonella in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Duisburg	S. Enteritidis	S. Kentucky	S. Livingstone	S. Mbandaka	S. Typhimurium
Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	1166	1	1					
Egg products - at retail - Surveillance	OFML	single	25g	437	0						
Eggs - raw material (liquid egg) for egg products - at retail - Surveillance	OFML	single	25g	3	0						
Eggs - table eggs - at processing plant - Surveillance (Processing source 1)	CVRL	single	Various	0	0						
Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	Various	91	0						
Eggs - table eggs - at retail - Surveillance	OFML	single	25g	115	1		1				
Fishery products, unspecified - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	19	0						
Fishery products, unspecified - at retail - Surveillance	OFML	single	25g	176	0						
Fishery products, unspecified - cooked - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Fishery products, unspecified - cooked - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	6	0						
Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	6	0						
Fishery products, unspecified - cooked - at retail - Surveillance	OFML	single	25g	177	0						
Fishery products, unspecified - raw - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						

Table Salmonella in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Duisburg	S. Enteritidis	S. Kentucky	S. Livingstone	S. Mbandaka	S. Typhimurium
Fishery products, unspecified - raw - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	4	0						
Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	27	0						
Fishery products, unspecified - raw - at retail - Surveillance	OFML	single	25g	10	0						
Fishery products, unspecified - smoked - at retail - Surveillance	OFML	single	25g	24	0						
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance	OFML	single	25g	3	0						
Fruits and vegetables - at retail - Surveillance	OFML	single	25g	165	0						
Fruits and vegetables - precut - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						
Fruits and vegetables - precut - at retail - Surveillance	OFML	single	25g	71	0						
Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	2563	0						
Fruits and vegetables - products - at retail - Surveillance	OFML	single	25g	99	0						
Infant formula - dried - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	190	0						
Infant formula - dried - at retail - Surveillance	OFML	single	25g	5	0						
Infant formula - dried - intended for infants below 6 months - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	310	0						

Table Salmonella in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Duisburg	S. Enteritidis	S. Kentucky	S. Livingstone	S. Mbandaka	S. Typhimurium
Infant formula - liquid - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	20	0						
Juice - fruit juice - at retail - Surveillance	OFML	single	25g	9	0						
Live bivalve molluscs - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	6	0						
Molluscan shellfish - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	4	0						
Molluscan shellfish - cooked - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	6	0						
Molluscan shellfish - cooked - at retail - Surveillance	OFML	single	25g	4	0						
Molluscan shellfish - raw - at retail - Surveillance	OFML	single	25g	9	0						
Nuts and nut products - at retail - Surveillance	OFML	single	25g	11	0						
Other processed food products and prepared dishes - noodles - at retail - Surveillance	OFML	single	25g	18	0						
Other processed food products and prepared dishes - pasta - at retail - Surveillance	OFML	single	25g	39	0						
Other processed food products and prepared dishes - pasta/rice salad - at retail - Surveillance	OFML	single	25g	91	0						
Other processed food products and prepared dishes - sandwiches - at retail - Surveillance	OFML	single	25g	517	0						
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance (Processing source 1)	CVRL	single	25g	0	0						0
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	CVRL	single	25g	15737	13						13

Table Salmonella in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Duisburg	S. Enteritidis	S. Kentucky	S. Livingstone	S. Mbandaka	S. Typhimurium
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	OFML	single	25g	1185	0						
Other processed food products and prepared dishes - vegetarian pate - at retail - Surveillance	OFML	single	25g	2	0						
Ready-to-eat salads - at retail - Surveillance	OFML	single	25g	684	0						
Sauce and dressings - at retail - Surveillance	OFML	single	25g	324	0						
Seeds, dried - at retail - Surveillance	OFML	single	25g	15	0						
Soups - at retail - Surveillance	OFML	single	25g	113	0						
Spices and herbs - at retail - Surveillance	OFML	single	25g	35	0						
Sweets - at retail - Surveillance	OFML	single	25g	2	0						

	Salmonella spp., unspecified
Bakery products - at retail - Surveillance	
Bakery products - bread - at retail - Surveillance	
Bakery products - cakes - at retail - Surveillance	
Bakery products - desserts - at retail - Surveillance	
Bakery products - pastry - at retail - Surveillance	
Beverages, non-alcoholic - soft drinks - at retail - Surveillance	
Cereals and meals - at retail - Surveillance	
Chocolate - at retail - Surveillance	

Table Salmonella in other food

	Salmonella spp., unspecified
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance	
Confectionery products and pastes - at retail - Surveillance	
Crustaceans - at processing plant - Surveillance (Processing source 5)	
Crustaceans - at retail - Surveillance	
Crustaceans - unspecified - cooked - at processing plant - Surveillance (Processing source 5)	
Crustaceans - unspecified - cooked - at retail - Surveillance	
Crustaceans - unspecified - raw - at retail - Surveillance	
Egg products - at processing plant - Surveillance (Processing source 1)	
Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Egg products - at retail - Surveillance	
Eggs - raw material (liquid egg) for egg products - at retail - Surveillance	
Eggs - table eggs - at processing plant - Surveillance (Processing source 1)	
Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Eggs - table eggs - at retail - Surveillance	
Fishery products, unspecified - at processing plant - Surveillance (Processing source 5)	

Table Salmonella in other food

	Salmonella spp., unspecified
Fishery products, unspecified - at retail - Surveillance	
Fishery products, unspecified - cooked - at processing plant - Surveillance (Processing source 1)	
Fishery products, unspecified - cooked - at processing plant - Surveillance (Processing source 5)	
Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Fishery products, unspecified - cooked - at retail - Surveillance	
Fishery products, unspecified - raw - at processing plant - Surveillance (Processing source 1)	
Fishery products, unspecified - raw - at processing plant - Surveillance (Processing source 5)	
Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Fishery products, unspecified - raw - at retail - Surveillance	
Fishery products, unspecified - smoked - at retail - Surveillance	
Foodstuffs intended for special nutritional uses - dietary foods for special medical purposes - at retail - Surveillance	
Fruits and vegetables - at retail - Surveillance	

Table Salmonella in other food

	Salmonella spp., unspecified
Fruits and vegetables - precut - at processing plant - Surveillance (Processing source 1)	
Fruits and vegetables - precut - at retail - Surveillance	
Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Fruits and vegetables - products - at retail - Surveillance	
Infant formula - dried - at processing plant - Surveillance (Processing source 4)	
Infant formula - dried - at retail - Surveillance	
Infant formula - dried - intended for infants below 6 months - at processing plant - Surveillance (Processing source 4)	
Infant formula - liquid - at processing plant - Surveillance (Processing source 4)	
Juice - fruit juice - at retail - Surveillance	
Live bivalve molluscs - at processing plant - Surveillance (Processing source 5)	
Molluscan shellfish - at processing plant - Surveillance (Processing source 5)	
Molluscan shellfish - cooked - at processing plant - Surveillance (Processing source 5)	
Molluscan shellfish - cooked - at retail - Surveillance	
Molluscan shellfish - raw - at retail - Surveillance	
Nuts and nut products - at retail - Surveillance	

Table Salmonella in other food

	Salmonella spp., unspecified
Other processed food products and prepared dishes - noodles - at retail - Surveillance	
Other processed food products and prepared dishes - pasta - at retail - Surveillance	
Other processed food products and prepared dishes - pasta/rice salad - at retail - Surveillance	
Other processed food products and prepared dishes - sandwiches - at retail - Surveillance	
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance (Processing source 1)	
Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	
Other processed food products and prepared dishes - unspecified - at retail - Surveillance	
Other processed food products and prepared dishes - vegetarian pate - at retail - Surveillance	
Ready-to-eat salads - at retail - Surveillance	
Sauce and dressings - at retail - Surveillance	
Seeds, dried - at retail - Surveillance	
Soups - at retail - Surveillance	
Spices and herbs - at retail - Surveillance	
Sweets - at retail - Surveillance	

Footnote:

The sampling program for all samples was Surveillance. Samples from Processing source 4, DSL: batches comprised of 1-20 samples each of 25g weight.

The following amendments were made:

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Fishery products, unspecified - cooked - at retail - Surveillance	Units tested	201	177
2009-12-08	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		1166
	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		1
	Egg products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Duisburg		1
	Egg products - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	1	0
	Egg products - at processing plant - Surveillance (Processing source 1)	S. Duisburg	1	0
	Egg products - at processing plant - Surveillance (Processing source 1)	Units tested	1166	0
	Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		Various
	Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		91
	Eggs - table eggs - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Eggs - table eggs - at processing plant - Surveillance (Processing source 1)	Units tested	91	0
	Fishery products, unspecified - smoked - at retail - Surveillance	Source of information		OFML
	Fishery products, unspecified - smoked - at retail - Surveillance	Sampling unit		single
	Fishery products, unspecified - smoked - at retail - Surveillance	Sample weight		25g
	Fishery products, unspecified - smoked - at retail - Surveillance	Units tested		24
	Fishery products, unspecified - smoked - at retail - Surveillance	Total units positive for Salmonella spp.		0
	Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		27

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Fishery products, unspecified - raw - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Fishery products, unspecified - raw - at processing plant - Surveillance (Processing source 1)	Units tested	27	0
	Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		6
	Fishery products, unspecified - cooked - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Fishery products, unspecified - cooked - at processing plant - Surveillance (Processing source 1)	Units tested	6	0
	Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		2563

Date of Modification	Species	Column	Old Value	New Value
2009-12-08	Fruits and vegetables - products - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		0
	Fruits and vegetables - precut - at processing plant - Surveillance (Processing source 1)	Units tested	2563	0
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Source of information		CVRL
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sampling unit		single
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Sample weight		25g
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Units tested		15737
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	Total units positive for Salmonella spp.		13
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance - HACCP and own checks (Processing source 1)	S. Typhimurium		13
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance (Processing source 1)	Total units positive for Salmonella spp.	13	0
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance (Processing source 1)	Units tested	15737	0
	Other processed food products and prepared dishes - unspecified - at processing plant - Surveillance (Processing source 1)	S. Typhimurium	13	0

2.1.4 Salmonella in animals

Table Salmonella in breeding flocks of Gallus gallus

	Number of existing flocks	Source of information	Sampling unit	Units tested	Total units positive for Salmonella spp.	S. Dublin	S. Enteritidis	S. Hadar	S. Infantis	S. Kentucky	S. Typhimurium
Gallus gallus (fowl) - grandparent breeding flocks for meat production line - during production period - at farm - environmental sample - boot swabs - Control and eradication programmes - official sampling	8	NCP, DAFF	flock	11	0						
Gallus gallus (fowl) - parent breeding flocks for meat production line - during production period - at farm - environmental sample - boot swabs - Control and eradication programmes - official sampling	112	NCP, DAFF	flock	192	4	1	1			2	
Gallus gallus (fowl) - parent breeding flocks for meat production line - during rearing period	54	Industry	flock				0				0

	S. Virchow	Salmonella spp., unspecified
Gallus gallus (fowl) - grandparent breeding flocks for meat production line - during production period - at farm - environmental sample - boot swabs - Control and eradication programmes - official sampling		
Gallus gallus (fowl) - parent breeding flocks for meat production line - during production period - at farm - environmental sample - boot swabs - Control and eradication programmes - official sampling		
Gallus gallus (fowl) - parent breeding flocks for meat production line - during rearing period		

Table Salmonella in breeding flocks of Gallus gallus

Footnote:

NCP - National Control Plan
DAFF - Department of Agriculture, Fisheries & Food
Data for 'Number of existing flocks' relates to 2009
Volume of testing by industry of parent breeding flocks for broiler production during rearing period for 2008 was not identified. Procedures have been amended to facilitate collection of this information in 2009.

Table Salmonella in other poultry

	Number of existing flocks	Source of information	Sampling unit	Units tested	Total units positive for Salmonella spp.	S. Brandenburg	S. Derby	S. Dublin	S. Duisburg	S. Enteritidis	S. Schwarzengrund
Ducks - breeding flocks - at hatchery - Monitoring - official sampling - selective sampling (Fluff sample)		NCP, DAFF	batch	21	4	2			1		1
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - industry sampling - census sampling	362		flock		2		1				
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official and industry sampling	362		flock		3						
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official sampling - objective sampling (Animal & Environmental sample. Faeces, boot swab & dust)	362	NCP, DAFF	flock	204	2		1	1		0	
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official sampling - suspect sampling	362		flock	1	0					0	
Turkeys - breeding flocks - at hatchery - Monitoring - official sampling - selective sampling (fluff)		NCP, DAFF	batch	8	0						

	S. Typhimurium	Salmonella spp., unspecified
Ducks - breeding flocks - at hatchery - Monitoring - official sampling - selective sampling (Fluff sample)		

Table Salmonella in other poultry

	S. Typhimurium	Salmonella spp., unspecified
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - industry sampling - census sampling	1	
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official and industry sampling	1	2
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official sampling - objective sampling (Animal & Environmental sample. Faeces, boot swab & dust)	0	
Gallus gallus (fowl) - laying hens - during production period - at farm - Control and eradication programmes - official sampling - suspect sampling	0	
Turkeys - breeding flocks - at hatchery - Monitoring - official sampling - selective sampling (fluff)		

Footnote:

NCP - National Control Plan

DAFF - Department of Agriculture, Fisheries & Food

Data for number of existing flocks in table relates to 2009.

Table Salmonella in other birds

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified
Ducks	Diagnostic	animal	18	0			
Geese	Diagnostic	animal	3	0			
Guinea fowl	Diagnostic	animal	0				
Ostriches	Diagnostic	animal	0				
Partridges	Diagnostic	animal	0				
Pheasants	Diagnostic	animal	30	0			
Pigeons	Diagnostic	animal	11	1		1	
Quails	Diagnostic	animal	0				
Wild animals	Diagnostic	animal	35	2		1	1
Zoo animals, all	Diagnostic	animal	35	0			

Table Salmonella in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Salmonella spp.	S. Aberdeen	S. Agona	S. Altona	S. Anatum	S. Brandenburg	S. Bredeney	S. Derby
Alpacas	Diagnostic	animal	7	0							
Badgers	Diagnostic	animal	1	0							
Cats	Diagnostic	animal	66	0							
Cattle (bovine animals) - adult cattle over 2 years	Diagnostic	animal	761	50							
Cattle (bovine animals) - calves (under 1 year)	Diagnostic	animal	8693	248	1	1					
Cheetahs	Diagnostic	animal	4	0							
Deer	Diagnostic	animal	27	0							
Dogs	Diagnostic	animal	509	0							
Goats	Diagnostic	animal	106	0							
Hares	Diagnostic	animal	26	0							
Mice - laboratory animal	Diagnostic	animal	15	0							
Other animals - exotic pet animals	Diagnostic	animal	28	1							
Pigs - breeding animals	Diagnostic	animal	27	1							
Pigs - breeding animals - at farm - Survey - EU baseline survey		holding	190	94	0	0	3	1	1	12	28
Pigs - fattening pigs	Diagnostic	animal	453	18							2
Rabbits	Diagnostic	animal	45	0							
Sheep	Diagnostic	animal	1063	4							
Snakes	Diagnostic	animal	1	1							
Solipeds, domestic - donkeys	Diagnostic	animal	23	0							
Solipeds, domestic - horses	Diagnostic	animal	1134	4							

Table Salmonella in other animals

	S. Dublin	S. Enteritidis	S. Give	S. Goldcoast	S. Infantis	S. Kentucky	S. Livingstone	S. London	S. Manhattan	S. Mbandaka	S. Muenster
Alpacas											
Badgers											
Cats											
Cattle (bovine animals) - adult cattle over 2 years	39										
Cattle (bovine animals) - calves (under 1 year)	224										
Cheetahs											
Deer											
Dogs											
Goats											
Hares											
Mice - laboratory animal											
Other animals - exotic pet animals											
Pigs - breeding animals											
Pigs - breeding animals - at farm - Survey - EU baseline survey	0	0	4	1	14	3	5	5	1	1	1
Pigs - fattening pigs	2								1		
Rabbits											
Sheep	3										
Snakes											
Solipeds, domestic - donkeys											
Solipeds, domestic - horses	2										

Table Salmonella in other animals

	S. Paratyphi B	S. Putten	S. Saintpaul	S. Thompson	S. Typhimurium	S. Virchow	S. Wien	S. enterica subsp. arizonae	Salmonella spp., unspecified	S. enterica subsp. salamae
Alpacas										
Badgers										
Cats										
Cattle (bovine animals) - adult cattle over 2 years					11					
Cattle (bovine animals) - calves (under 1 year)	1				21					
Cheetahs										
Deer										
Dogs										
Goats										
Hares										
Mice - laboratory animal										
Other animals - exotic pet animals				1						
Pigs - breeding animals					1					
Pigs - breeding animals - at farm - Survey - EU baseline survey	0	1	1	0	33	2	1	0	0	2
Pigs - fattening pigs					12				1	
Rabbits										
Sheep					1					
Snakes								1		
Solipeds, domestic - donkeys										
Solipeds, domestic - horses					2					

2.1.5 Salmonella in feedingstuffs

Table Salmonella in feed material of animal origin

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified
Feed material of marine animal origin - fish meal - at feed mill - domestic production		single	25g	1	0			

Table Salmonella in other feed matter

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified
Feed material of cereal grain origin - barley derived - in total (domestic production & imported material)		single	25g	35	0			
Feed material of cereal grain origin - maize (at port, imported material)		single	25g	6	0			
Feed material of cereal grain origin - maize - derived (at port, imported material)		single	25g	6	0			
Feed material of cereal grain origin - other cereal grain derived - in total (domestic production)		single	25g	13	0			
Feed material of cereal grain origin - wheat derived - in total (domestic production & imported material)		single	25g	17	0			
Feed material of oil seed or fruit origin - palm kernel derived (at port, imported material)		single	25g	4	0			
Feed material of oil seed or fruit origin - rape seed derived - in total (at feed mills & port, domestic production & imported material)		single	25g	14	0			
Feed material of oil seed or fruit origin - soya (bean) derived (at port, imported material)		single	25g	12	1			1
Feed material of oil seed or fruit origin - sunflower seed derived (at port, imported material)		single	25g	7	0			
Other feed material - forages and roughages (at port, imported material)		single	25g	1	0			
Other feed material - other seeds and fruits (at port, imported material)		single	25g	1	0			
Other feed material - tubers, roots and similar products (at port, imported material)		single	25g	2	0			

Table Salmonella in compound feedingstuffs

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella spp.	S. Agona	S. Enteritidis	S. Typhimurium	Salmonella spp., unspecified
Compound feedingstuffs for cattle - final product - at feed mill - domestic production		single	25g	46	0				
Compound feedingstuffs for fish - final product - at feed mill - domestic production		single	25g	6	0				
Compound feedingstuffs for horses - final product - at feed mill - domestic production		single	25g	1	0				
Compound feedingstuffs for pigs - final product - at feed mill - domestic production		single	25g	17	1	1			
Compound feedingstuffs for poultry - laying hens - final product - at feed mill - domestic production		single	25g	16	0				
Compound feedingstuffs for poultry -breeders - final product - at feed mill - domestic production		single	25g	1	0				
Compound feedingstuffs for sheep - final product - at feed mill - domestic production		single	25g	2	0				
Compound feedingstuffs for turkeys - final product - at feed mill - domestic production		single	25g	4	0				
Compound feedingstuffs for poultry - broilers - final product - at feed mill - domestic production		single	25g	8	0				

2.1.6 Salmonella serovars and phagetype distribution

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

Table Salmonella serovars in animals

Serovars	Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Other poultry		Other animals	
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates										
Number of isolates in the laboratory	0	298	0	18	0	0			0	10
Number of isolates serotyped	0	298	0	18	0	0	0	0	0	10
Number of isolates per serovar										
S. Aberdeen	0	1	0	0	0	0			0	0
S. Agama	0	1	0	0	0	0			0	0
S. Derby	0	0	0	2	0	0			0	0
S. Dublin	0	263	0	2	0	0			0	5
S. Enteritidis	0	0	0	0	0	0			0	0
S. Manhattan	0	0	0	1	0	0			0	0
S. Paratyphi B	0	1	0	0	0	0			0	0

Table Salmonella serovars in animals

Serovars	Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Other poultry		Other animals	
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates										
Number of isolates in the laboratory	0	298	0	18	0	0			0	10
Number of isolates serotyped	0	298	0	18	0	0	0	0	0	10
Number of isolates per serovar										
S. Thompson	0	0	0	0	0	0			0	1
S. Typhimurium	0	32	0	13	0	0			0	3
S. enterica subsp. arizonae	0	0	0	0	0	0			0	1

Table Salmonella serovars in food

Serovars	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Meat from other animal species or not specified		Meat from sheep	
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	
	Sources of isolates													
	Number of isolates in the laboratory	67		205		233		31		3		40		2
	Number of isolates serotyped	67	0	201	0	229	0	31	0	3	0	40	0	2
Number of isolates per serovar														
S. Aberdeen			1											
S. Agona	10		35		17						5			
S. Brandenburg	1		1				5							
S. Bredeney	2		12		1						1			
S. Derby	3		23								1			
S. Dublin	7		1											
S. Duisburg														
S. Enteritidis			2		1									
S. Give			4								7			
S. Hadar					1		1				1			
S. Infantis			5		4									
S. Kentucky	19		1		157		12				2		1	

Table Salmonella serovars in food

Serovars	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Meat from other animal species or not specified		Meat from sheep
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring
	Sources of isolates												
	Number of isolates in the laboratory												
	Number of isolates serotyped												
Number of isolates per serovar													
S. Kottbus					2		3						
S. Livingstone					1								
S. London	1		16										
S. Manchester													
S. Mbandaka					1								
S. Minnesota					16								
S. Newport					1								
S. Nottingham	1		3		1		2						
S. Ohio					1		1						
S. Paratyphi B					14		1						
S. Reading	1										1		
S. Rissen	1		1						2		10		

Table Salmonella serovars in food

Serovars	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Meat from other animal species or not specified		Meat from sheep
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring
Sources of isolates													
Number of isolates in the laboratory	67		205		233		31		3		40		2
Number of isolates serotyped	67	0	201	0	229	0	31	0	3	0	40	0	2
Number of isolates per serovar													
S. Saintpaul	1												
S. Schwarzengrund							2						
S. Tennessee					2								
S. Thompson							1						
S. Typhimurium	20		95		7		3		1		12		
S. Virchow			1		2								
S. enterica subsp. arizonae													1

Table Salmonella serovars in food

Serovars	Meat from sheep	Egg products		Other processed food products and prepared dishes		Cheeses, made from unspecified milk or other animal milk		Dairy products (excluding cheeses) - dairy products, not specified		Dairy products (excluding cheeses) - milk powder and whey powder	
	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates											
Number of isolates in the laboratory		2		13		2		2		9	
Number of isolates serotyped	0	2	0	13	0	0	0	0	0	9	0
Number of isolates per serovar											
S. Aberdeen											
S. Agona											
S. Brandenburg											
S. Bredeney											
S. Derby											
S. Dublin											
S. Duisburg		1									
S. Enteritidis		1									
S. Give											
S. Hadar											
S. Infantis											
S. Kentucky											

Table Salmonella serovars in food

Serovars	Meat from sheep	Egg products		Other processed food products and prepared dishes		Cheeses, made from unspecified milk or other animal milk		Dairy products (excluding cheeses) - dairy products, not specified		Dairy products (excluding cheeses) - milk powder and whey powder	
	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates											
Number of isolates in the laboratory		2		13		2		2		9	
Number of isolates serotyped	0	2	0	13	0	0	0	0	0	9	0
Number of isolates per serovar											
S. Kottbus											
S. Livingstone											
S. London											
S. Manchester										7	
S. Mbandaka										2	
S. Minnesota											
S. Newport											
S. Nottingham											
S. Ohio											
S. Paratyphi B											
S. Reading											
S. Rissen											

Table Salmonella serovars in food

Serovars	Meat from sheep	Egg products		Other processed food products and prepared dishes		Cheeses, made from unspecified milk or other animal milk		Dairy products (excluding cheeses) - dairy products, not specified		Dairy products (excluding cheeses) - milk powder and whey powder	
Sources of isolates	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Number of isolates in the laboratory		2		13		2		2		9	
Number of isolates serotyped	0	2	0	13	0	0	0	0	0	9	0
Number of isolates per serovar											
S. Saintpaul											
S. Schwarzengrund											
S. Tennessee											
S. Thompson											
S. Typhimurium				13							
S. Virchow											
S. enterica subsp. arizonae											

Table Salmonella Enteritidis phagetypes in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Eggs - at retail	
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates												
Number of isolates in the laboratory			1		2						1	
Number of isolates phagetyped	0	0	1	0	2	0	0	0	0	0	1	0
Number of isolates per type												
PT 4											1	
PT 8			1									
PT 2					2							

Table Salmonella Typhimurium phage types in animals

Phagetype	Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Other poultry		Other animals	
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical
Sources of isolates										
Number of isolates in the laboratory		32		13		0				4
Number of isolates phagetyped	0	32	0	13	0	0	0	0	0	4
Number of isolates per type										
DT 12				1						
DT 104		19		1						1
DT 104b		7		4						1
DT 193		2		2						
U 311		1								
DT 135		2								
U 288				3						1
DT 56										1
193				2						
DT 41b		1								

Table Salmonella Typhimurium phagetypes in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Meat from other animal species or not specified		Other processed food products and prepared dishes
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring
	Sources of isolates												
	Number of isolates in the laboratory												
	Number of isolates phagetyped												
Number of isolates per type													
DT 12	2		5										
DT 104	2		10								1		6
DT 104b	9		32		2						4		2
DT 120			1										
DT 193	2		11		1		1						1
DT 208			1										
U 302	1		1								1		
DT 49							2						2
DT 17	1		2										
U 288	1		9		1				1		1		

Table Salmonella Typhimurium phagetypes in food

Phagetype	Meat from bovine animals		Meat from pig		Meat from broilers (Gallus gallus)		Other poultry		Other products of animal origin		Meat from other animal species or not specified		Other processed food products and prepared dishes
	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring	Clinical	Monitoring
	20		95		7		3		1		12		13
	18	0	74	0	4	0	3	0	1	0	7	0	12
DT 112			2										
DT 170b													1

Phagetype	Other processed food products and prepared dishes
	Clinical
	0
DT 12	
DT 104	

Table Salmonella Typhimurium phagetypes in food

Phagetype	Other processed food products and prepared dishes
Sources of isolates	Clinical
Number of isolates in the laboratory	
Number of isolates phagetyped	0
Number of isolates per type	
DT 104b	
DT 120	
DT 193	
DT 208	
U 302	
DT 49	
DT 17	
U 288	
DT 112	
DT 170b	

2.1.7 Antimicrobial resistance in Salmonella isolates

Table Antimicrobial susceptibility testing of S. Altona - qualitative data

S. Altona		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		5	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	5	0
	Kanamycin	5	0
	Streptomycin	5	0
Amphenicols	Chloramphenicol	5	0
	Florfenicol	5	0
Cephalosporins	Cefotaxim	5	0
	Ceftazidim	5	0
Fluoroquinolones	Ciprofloxacin	5	0
Fully sensitive	Fully sensitive	5	0
Penicillins	Ampicillin	5	0
Quinolones	Nalidixic acid	5	0
Sulfonamides	Sulfonamide	5	0
Tetracyclines	Tetracyclin	5	0
Trimethoprim	Trimethoprim	5	0

Table Antimicrobial susceptibility testing of S. Altona in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Altona Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																											
		5																											
		break points	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			
Aminoglycosides	Gentamicin	2	5	0						2	3														.25	32			
	Kanamycin	4	5	0									5												4	128			
	Neomycin		0	0																									
	Streptomycin	32	5	0										5											2	128			
Amphenicols	Chloramphenicol	16	5	0									5												2	64			
	Florfenicol	16	5	0									5												2	64			
Cephalosporins	3rd generation cephalosporins		0	0																									
	Cefotaxim	.5	5	0				1	4																.06	4			
	Ceftazidim	2	5	0							5														.25	16			
Fluoroquinolones	Ciprofloxacin	.06	5	0		4	1																		.008	8			
	Enrofloxacin		0	0																									
Penicillins	Ampicillin	4	5	0							1	4													.5	32			
Quinolones	Nalidixic acid	16	5	0									5												4	64			
Sulfonamides	Sulfonamide	256	5	0												1	2	2							8	1024			
Tetracyclines	Tetracyclin	8	5	0								5													1	64			
Trimethoprim	Trimethoprim	2	5	0							5														.5	32			
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																									
	Trimethoprim + sulfonamides		0	0																									

Table Antimicrobial susceptibility testing of S. Anatum in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Anatum <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																										
		yes																										
		2																										
		break points	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		
Aminoglycosides	Gentamicin	2	2	0						2														.25	32			
	Kanamycin	4	2	0									2											4	128			
	Neomycin		0	0																								
	Streptomycin	32	2	0										2										2	128			
Amphenicols	Chloramphenicol	16	2	0									2											2	64			
	Florfenicol	16	2	0								2												2	64			
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	2	0			2																	.008	8			
	Ceftazidim	2	2	0					2															.25	16			
Fluoroquinolones	Ciprofloxacin	.06	2	0		2																		.008	8			
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	2	0							2													.5	32			
Quinolones	Nalidixic acid	16	2	0								2												4	64			
Sulfonamides	Sulfonamide	256	2	0												1	1							8	1024			
Tetracyclines	Tetracyclin	8	2	0								2												1	64			
Trimethoprim	Trimethoprim	2	2	0						2														.5	32			
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of *S. Anatum* - qualitative data

S. Anatum		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		2	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	2	0
	Kanamycin	2	0
	Streptomycin	2	0
Amphenicols	Chloramphenicol	2	0
	Florfenicol	2	0
Cephalosporins	Cefotaxim	2	0
	Ceftazidim	2	0
Fluoroquinolones	Ciprofloxacin	2	0
Fully sensitive	Fully sensitive	2	0
Penicillins	Ampicillin	2	0
Quinolones	Nalidixic acid	2	0
Sulfonamides	Sulfonamide	2	0
Tetracyclines	Tetracyclin	2	0
Trimethoprim	Trimethoprim	2	0

Table Antimicrobial susceptibility testing of S. Brandenburg - qualitative data

S. Brandenburg Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - Monitoring	
		yes	
		1	
		N	n
Aminoglycosides	Gentamicin	1	0
	Kanamycin	1	0
	Streptomycin	1	0
Amphenicols	Chloramphenicol	1	0
	Florfenicol	1	0
Cephalosporins	Cefotaxim	1	0
	Ceftazidim	1	0
Fluoroquinolones	Ciprofloxacin	1	0
Penicillins	Ampicillin	1	0
Quinolones	Nalidixic acid	1	0
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	1	0
Sulfonamides	Sulfonamide	1	1
Tetracyclines	Tetracyclin	1	1
Trimethoprim	Trimethoprim	1	1

Table Antimicrobial susceptibility testing of S. Brandenburg in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Brandenburg <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		1																									
		break points	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	
Aminoglycosides	Gentamicin	2	1	0						1														.25	32		
	Kanamycin	4	1	0									1											4	128		
	Neomycin		0	0																							
	Streptomycin	32	1	0										1										2	128		
Amphenicols	Chloramphenicol	16	1	0									1											2	64		
	Florfenicol	16	1	0									1											2	64		
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	1	0				1																.06	4		
	Ceftazidim	2	1	0						1														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	1	0		1																		.008	8		
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	1	0							1													.5	32		
Quinolones	Nalidixic acid	16	1	0									1											4	64		
Sulfonamides	Sulfonamide	256	1	1																	1			8	1024		
Tetracyclines	Tetracyclin	8	1	1													1							1	64		
Trimethoprim	Trimethoprim	2	1	1												1								.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of *S. Bredeney* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Bredeney		Pigs - breeding animals - Survey - EU baseline survey																											
		Isolates out of a monitoring program (yes/no)																											
		Number of isolates available in the laboratory																											
Antimicrobials:		22																											
		break points	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			
Aminoglycosides	Gentamicin	2	22	0						7	15															.25	32		
	Kanamycin	4	22	0										22												4	128		
	Neomycin		0	0																									
	Streptomycin	32	22	0												21	1									2	128		
Amphenicols	Chloramphenicol	16	22	0										1	21											2	64		
	Florfenicol	16	22	0										22												2	64		
Cephalosporins	3rd generation cephalosporins		0	0																									
	Cefotaxim	.5	22	0				21	1																	.06	4		
	Ceftazidim	2	22	0						21	1															.25	16		
Fluoroquinolones	Ciprofloxacin	.06	22	0		4	18																			.008	8		
	Enrofloxacin		0	0																									
Penicillins	Ampicillin	4	22	1								8	13				1									.5	32		
Quinolones	Nalidixic acid	16	22	0										22												4	64		
Sulfonamides	Sulfonamide	256	22	1													13	7		1		1				8	1024		
Tetracyclines	Tetracyclin	8	22	0								1	20	1												1	64		
Trimethoprim	Trimethoprim	2	22	0							22															.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																									
	Trimethoprim + sulfonamides		0	0																									

Table Antimicrobial susceptibility testing of *S. Bredeney* - qualitative data

S. Bredeney		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		22	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	22	0
	Kanamycin	22	0
	Streptomycin	22	0
Amphenicols	Chloramphenicol	22	0
	Florfenicol	22	0
Cephalosporins	Cefotaxim	22	0
	Ceftazidim	22	0
Fluoroquinolones	Ciprofloxacin	22	0
Fully sensitive	Fully sensitive	20	0
Penicillins	Ampicillin	22	1
Quinolones	Nalidixic acid	22	0
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	2	0
Sulfonamides	Sulfonamide	22	1
Tetracyclines	Tetracyclin	22	0
Trimethoprim	Trimethoprim	22	0

Table Antimicrobial susceptibility testing of S. Derby in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Derby		Pigs - breeding animals - Survey - EU baseline survey																										
		Isolates out of a monitoring program (yes/no)																										
		Number of isolates available in the laboratory																										
		63																										
Antimicrobials:		break points	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		
Aminoglycosides	Gentamicin	2	63	0						19	41	3													.25	32		
	Kanamycin	4	63	0										63											4	128		
	Neomycin		0	0																								
	Streptomycin	32	63	20											1	27	13	2	1	19					2	128		
Amphenicols	Chloramphenicol	16	63	0											59	4									2	64		
	Florfenicol	16	63	0										21	42										2	64		
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	63	0				3	60																.06	4		
	Ceftazidim	2	63	0						3	60														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	63	0		26	37																		.008	8		
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	63	1								23	39				1								.5	32		
Quinolones	Nalidixic acid	16	63	0										62	1										4	64		
Sulfonamides	Sulfonamide	256	63	35												3	5	14	4	2		35			8	1024		
Tetracyclines	Tetracyclin	8	63	42									21					42							1	64		
Trimethoprim	Trimethoprim	2	63	13							49	1					13								.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of S. Derby in laying hens - Gallus gallus (fowl) - during production period - Control and eradication programmes - quantitative data [Dilution method]

S. Derby		Gallus gallus (fowl) - laying hens - during production period - Control and eradication programmes																										
		Isolates out of a monitoring program (yes/no)																										
		Number of isolates available in the laboratory																										
Antimicrobials:		break points	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		
Aminoglycosides	Gentamicin	2	1	0					1																.25	32		
	Kanamycin	4	1	0								1													4	128		
	Neomycin		0	0																								
	Streptomycin	32	1	0								1													2	128		
Amphenicols	Chloramphenicol	16	1	0									1												2	64		
	Florfenicol	16	1	0								1													2	64		
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	1	0				1																	.06	4		
	Ceftazidim	2	1	0				1																	.25	16		
Fluoroquinolones	Ciprofloxacin	.06	1	0		1																			.08	8		
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	1	0						1															.5	32		
Quinolones	Nalidixic acid	16	1	0								1													4	64		
Sulfonamides	Sulfonamide	256	8	0											8										8	1024		
Tetracyclines	Tetracyclin	8	1	0							1														1	64		
Trimethoprim	Trimethoprim	2	1	0					1																.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of S. Derby - qualitative data

S. Derby Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Gallus gallus (fowl) - laying hens - Monitoring		Pigs - Monitoring	
		yes		yes	
		1		63	
		N	n	N	n
Antimicrobials:					
Aminoglycosides	Gentamicin	1	0	63	0
	Kanamycin	1	0	63	0
	Streptomycin	1	0	63	20
Amphenicols	Chloramphenicol	1	0	63	0
	Florfenicol			63	0
Cephalosporins	Cefotaxim	1	0	63	0
	Ceftazidim	1	0	63	0
Fluoroquinolones	Ciprofloxacin	1	0	63	0
Fully sensitive	Fully sensitive	1	0	19	0
Penicillins	Ampicillin	1	0	63	1
Quinolones	Nalidixic acid	1	0	63	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial			11	0
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials			32	0
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials			1	0
Sulfonamides	Sulfonamide	1	0	63	35
Tetracyclines	Tetracyclin	1	0	63	42
Trimethoprim	Trimethoprim	1	0	63	13

The following amendments were made:

Date of Modification	Antimicrobial	Column	Old Value	New Value
2009-09-21	Fully sensitive	Gallus gallus (fowl) - laying hens - Monitoring - n		0

Table Antimicrobial susceptibility testing of S. Dublin in laying hens - Gallus gallus (fowl) - during production period - Control and eradication programmes - quantitative data [Dilution method]

S. Dublin		Gallus gallus (fowl) - laying hens - during production period - Control and eradication programmes																										
		Isolates out of a monitoring program (yes/no)																										
		Number of isolates available in the laboratory																										
Antimicrobials:		break points	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		
Aminoglycosides	Gentamicin	2	1	0				1																	.25	32		
	Kanamycin	4	1	0								1													4	128		
	Neomycin		0	0																								
	Streptomycin	32	1	0										1											2	128		
Amphenicols	Chloramphenicol	16	1	0								1													2	64		
	Florfenicol	16	1	0							1														2	64		
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	1	0				1																	.06	4		
	Ceftazidim	2	1	0				1																	.25	16		
Fluoroquinolones	Ciprofloxacin	.06	1	0		1																			.008	8		
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	1	0						1															.5	32		
Quinolones	Nalidixic acid	16	1	0								1													4	64		
Sulfonamides	Sulfonamide	256	1	0										1											8	1024		
Tetracyclines	Tetracyclin	8	1	0						1															1	64		
Trimethoprim	Trimethoprim	2	1	0					1																.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of S. Dublin - qualitative data

S. Dublin Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Cattle (bovine animals)		Pigs		Gallus gallus (fowl) - laying hens - Monitoring	
		no		no		yes	
		221		3		1	
		N	n	N	n	N	n
Aminoglycosides	Apramycin	179	3	3	0		
	Framycetin	190	0	3	0		
	Gentamicin					1	0
	Kanamycin					1	0
	Neomycin	194	5	3	1		
	Streptomycin	24	4			1	0
Amphenicols	Chloramphenicol					1	0
	Florfenicol	220	2	3	0		
Cephalosporins	Cefalexin	24	4				
	Cefotaxim					1	0
	Ceftazidim					1	0
Fluoroquinolones	Ciprofloxacin					1	0
	Enrofloxacin	221	1	3	0		
Fully sensitive	Fully sensitive	221	187	3	3	1	0
Penicillins	Amoxicillin / Clavulanic acid	221	1	3	0		
	Ampicillin					1	0
	Penicillin	24	14				
Quinolones	Nalidixic acid					1	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	221	23	3	0		
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	221	10	3	0		

Table Antimicrobial susceptibility testing of S. Dublin - qualitative data

S. Dublin Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Cattle (bovine animals)		Pigs		Gallus gallus (fowl) - laying hens - Monitoring	
		no		no		yes	
		221		3		1	
		N	n	N	n	N	n
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	221	1	3	1		
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials	221	0	3	0		
Resistant to >4 antimicrobials	Resistant to >4 antimicrobials	221	0	3	0		
Sulfonamides	Sulfonamide					1	0
Tetracyclines	Tetracyclin	217	8	3	1	1	0
Trimethoprim	Trimethoprim					1	0
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol	221	4	3	1		

Table Antimicrobial susceptibility testing of S. Give - qualitative data

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		6	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	6	0
	Kanamycin	6	0
	Streptomycin	6	0
Amphenicols	Chloramphenicol	6	0
	Florfenicol	6	0
Cephalosporins	Cefotaxim	6	0
	Ceftazidim	6	0
Fluoroquinolones	Ciprofloxacin	6	0
Fully sensitive	Fully sensitive	1	0
Penicillins	Ampicillin	6	0
Quinolones	Nalidixic acid	6	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	1	0
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	2	0
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	2	0
Sulfonamides	Sulfonamide	6	4
Tetracyclines	Tetracyclin	6	3
Trimethoprim	Trimethoprim	6	4

Table Antimicrobial susceptibility testing of S. Give in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Give Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		6																									
		break points	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	
Aminoglycosides	Gentamicin	2	6	0						6														.25	32		
	Kanamycin	4	6	0									6											4	128		
	Neomycin		0	0																							
	Streptomycin	32	6	0										3	3									2	128		
Amphenicols	Chloramphenicol	16	6	0										4	2									2	64		
	Florfenicol	16	6	0									4	2										2	64		
Cephalosporins	Cefotaxim	.5	6	0				4	2															.06	4		
	Ceftazidim	2	6	0						6														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	6	0		1	3	2																.008	8		
Penicillins	Ampicillin	4	6	0							3	2	1											.5	32		
Quinolones	Nalidixic acid	16	6	0									4	2										4	64		
Sulfonamides	Sulfonamide	256	6	4													1	1			4			8	1024		
Tetracyclines	Tetracyclin	8	6	3								3					3							1	64		
Trimethoprim	Trimethoprim	2	6	4							1	1					4							.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of *S. Goldcoast* - qualitative data

S. Goldcoast Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - Monitoring	
		yes	
		1	
		N	n
Aminoglycosides	Gentamicin	1	0
	Kanamycin	1	0
	Streptomycin	1	0
Amphenicols	Chloramphenicol	1	0
	Florfenicol	1	0
Cephalosporins	Cefotaxim	1	0
	Ceftazidim	1	0
Fluoroquinolones	Ciprofloxacin	1	0
Fully sensitive	Fully sensitive	1	0
Penicillins	Ampicillin	1	0
Quinolones	Nalidixic acid	1	0
Sulfonamides	Sulfonamide	1	0
Tetracyclines	Tetracyclin	1	0
Trimethoprim	Trimethoprim	1	0

Table Antimicrobial susceptibility testing of *S. Goldcoast* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Goldcoast Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																											
		yes																											
		1																											
		break points	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			
Aminoglycosides	Gentamicin	2	1	0						1														.25	32				
	Kanamycin	4	1	0									1											4	128				
	Neomycin		0	0																									
	Streptomycin	32	1	0										1										2	128				
Amphenicols	Chloramphenicol	16	1	0									1											2	64				
	Florfenicol	16	1	0									1											2	64				
Cephalosporins	3rd generation cephalosporins		0	0																									
	Cefotaxim	.5	1	0				1																.06	4				
	Ceftazidim	2	1	0						1														.25	16				
Fluoroquinolones	Ciprofloxacin	.06	1	0			1																	.008	8				
	Enrofloxacin		0	0																									
Penicillins	Ampicillin	4	1	0								1												.5	32				
Quinolones	Nalidixic acid	16	1	0									1											4	64				
Sulfonamides	Sulfonamide	256	1	0												1								8	1024				
Tetracyclines	Tetracyclin	8	1	0								1												1	64				
Trimethoprim	Trimethoprim	2	1	0						1														.5	32				
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																									
	Trimethoprim + sulfonamides		0	0																									

Table Antimicrobial susceptibility testing of *S. Infantis* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																								
		yes																								
		32																								
		break points	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
Aminoglycosides	Gentamicin	2	32	1						22	9					1									.25	32
	Kanamycin	4	32	1										31					1						4	128
	Neomycin		0	0																						
	Streptomycin	32	32	1										1	27	3			1						2	128
Amphenicols	Chloramphenicol	16	32	1											30	1		1							2	64
	Florfenicol	16	32	0										16	16										2	64
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	32	0				1	30	1															.06	4
	Ceftazidim	2	32	0						4	28														.25	16
Fluoroquinolones	Ciprofloxacin	.06	32	0		7	25																		.008	8
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	32	0								6	26												.5	32
Quinolones	Nalidixic acid	16	32	0										32											4	64
Sulfonamides	Sulfonamide	256	32	2												1	6	14	8	1		2			8	1024
Tetracyclines	Tetracyclin	8	32	1									29	2				1							1	64
Trimethoprim	Trimethoprim	2	32	1						31							1								.5	32
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of *S. Infantis* - qualitative data

S. Infantis Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - Monitoring	
		yes	
		32	
		N	n
Aminoglycosides	Gentamicin	32	1
	Kanamycin	32	1
	Streptomycin	32	1
Amphenicols	Chloramphenicol	32	1
	Florfenicol	32	0
Cephalosporins	Cefotaxim	32	0
	Ceftazidim	32	0
Fluoroquinolones	Ciprofloxacin	32	0
Fully sensitive	Fully sensitive	30	0
Penicillins	Ampicillin	32	0
Quinolones	Nalidixic acid	32	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	1	0
Resistant to >4 antimicrobials	Resistant to >4 antimicrobials	1	0
Sulfonamides	Sulfonamide	32	2
Tetracyclines	Tetracyclin	32	1
Trimethoprim	Trimethoprim	32	1

Table Antimicrobial susceptibility testing of *S. Kentucky* - qualitative data

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Gallus gallus (fowl) - broilers - Monitoring		Pigs - Monitoring	
		yes		yes	
		38		7	
		N	n	N	n
Aminoglycosides	Gentamicin	38	0	7	0
	Kanamycin	38	0	7	0
	Streptomycin	38	1	7	1
Amphenicols	Chloramphenicol	38	0	7	0
	Florfenicol			7	0
Cephalosporins	Cefotaxim	38	0	7	0
	Ceftazidim	38	0	7	0
Fluoroquinolones	Ciprofloxacin	38	0	7	3
Fully sensitive	Fully sensitive	7	0	3	0
Penicillins	Ampicillin	38	4	7	0
Quinolones	Nalidixic acid	38	0	7	3
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	28	0	1	0
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	2	0		
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	1	0	1	0
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials			2	0
Sulfonamides	Sulfonamide	38	29	7	3
Tetracyclines	Tetracyclin	38	0	7	0
Trimethoprim	Trimethoprim	38	0	7	2

Table Antimicrobial susceptibility testing of S. Kentucky - qualitative data

The following amendments were made:

Date of Modification	Antimicrobial	Column	Old Value	New Value
2009-09-21	Fully sensitive	Gallus gallus (fowl) - broilers - Monitoring - n		0
	Resistant to 1 antimicrobial	Gallus gallus (fowl) - broilers - Monitoring - n		0
	Resistant to 2 antimicrobials	Gallus gallus (fowl) - broilers - Monitoring - n		0
	Resistant to 3 antimicrobials	Gallus gallus (fowl) - broilers - Monitoring - n		0

Table Antimicrobial susceptibility testing of *S. Kentucky* in *Gallus gallus* (fowl) - broilers - Survey - EU baseline survey - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Gallus gallus (fowl) - broilers - Survey - EU baseline survey																								
		break points	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
Aminoglycosides	Gentamicin	2	38	0						20	17	1													.25	32
	Kanamycin	4	38	0										38											4	128
	Neomycin	0	0	0																						
	Streptomycin	32	38	1											33	4		1							2	128
Amphenicols	Chloramphenicol	16	38	0											36	2									2	64
	Florfenicol	16	38	0										31	7										2	64
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	38	0					36	2															.06	4
	Ceftazidim	2	38	0						1	36	1													.25	16
Fluoroquinolones	Ciprofloxacin	.06	38	0		3	32	3																	.008	8
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	38	4								27	6	1			4								.5	32
Quinolones	Nalidixic acid	16	38	0										37	1										4	64
Sulfonamides	Sulfonamide	256	38	29													1		6	2	1	28			8	1024
Tetracyclines	Tetracyclin	8	38	0								37	1												1	64
Trimethoprim	Trimethoprim	2	38	1							36	1					1								.5	32
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of *S. Kentucky* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Kentucky Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																										
		yes																										
		7																										
		break points	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		
Aminoglycosides	Gentamicin	2	7	0					4	3														.25	32			
	Kanamycin	4	7	0									7											4	128			
	Neomycin		0	0																								
	Streptomycin	32	7	1										5	1		1							2	128			
Amphenicols	Chloramphenicol	16	7	0										7										2	64			
	Florfenicol	16	7	0									3	4										2	64			
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	7	0				1	6															.06	4			
	Ceftazidim	2	7	0					1	6														.25	16			
Fluoroquinolones	Ciprofloxacin	.06	7	3		1	3			3														.008	8			
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	7	0							3	4												.5	32			
Quinolones	Nalidixic acid	16	7	3									4				3							4	64			
Sulfonamides	Sulfonamide	256	7	3													3	1	1	2				8	1024			
Tetracyclines	Tetracyclin	8	7	0								5	2											1	64			
Trimethoprim	Trimethoprim	2	7	2						5						2								.5	32			
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of *S. Livingstone* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		9																									
		break points	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	
Aminoglycosides	Gentamicin	2	9	0						6	3													.25	32		
	Kanamycin	4	9	0									9											4	128		
	Neomycin		0	0																							
	Streptomycin	32	9	0										1	8									2	128		
Amphenicols	Chloramphenicol	16	9	0									2	7										2	64		
	Florfenicol	16	9	0									9											2	64		
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	9	0				8	1															.06	4		
	Ceftazidim	2	9	0						7	2													.25	16		
Fluoroquinolones	Ciprofloxacin	.06	9	0		3	6																	.008	8		
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	9	0							8	1												.5	32		
Quinolones	Nalidixic acid	16	9	0									9											4	64		
Sulfonamides	Sulfonamide	256	9	1												1	6	1		1				8	1024		
Tetracyclines	Tetracyclin	8	9	0								9												1	64		
Trimethoprim	Trimethoprim	2	9	0							9													.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of S. Livingstone - qualitative data

S. Livingstone Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		9	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	9	0
	Kanamycin	9	0
	Streptomycin	9	0
Amphenicols	Chloramphenicol	9	0
	Florfenicol	9	0
Cephalosporins	Cefotaxim	9	0
	Ceftazidim	9	0
Fluoroquinolones	Ciprofloxacin	9	0
Fully sensitive	Fully sensitive	8	0
Penicillins	Ampicillin	9	0
Quinolones	Nalidixic acid	9	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	1	0
Sulfonamides	Sulfonamide	9	1
Tetracyclines	Tetracyclin	9	0
Trimethoprim	Trimethoprim	9	0

Table Antimicrobial susceptibility testing of S. London in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. London		Pigs - breeding animals - Survey - EU baseline survey																								
		Isolates out of a monitoring program (yes/no)																								
		Number of isolates available in the laboratory																								
Antimicrobials:		break points	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
Aminoglycosides	Gentamicin	2	8	0						2	6														.25	32
	Kanamycin	4	8	0										8											4	128
	Neomycin	0	0	0																						
	Streptomycin	32	8	0										3	5										2	128
Amphenicols	Chloramphenicol	16	8	0										1	7										2	64
	Florfenicol	16	8	0										8											2	64
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	8	0				8																	.06	4
	Ceftazidim	2	8	0						8															.25	16
Fluoroquinolones	Ciprofloxacin	.06	8	0		5	3																		.008	8
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	8	0								7	1												.5	32
Quinolones	Nalidixic acid	16	8	0										8											4	64
Sulfonamides	Sulfonamide	256	8	0													1	6	1						8	1024
Tetracyclines	Tetracyclin	8	8	0								4	4												1	64
Trimethoprim	Trimethoprim	2	8	0							7	1													.5	32
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of S. London - qualitative data

S. London Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		8	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	8	0
	Kanamycin	8	0
	Streptomycin	8	0
Amphenicols	Chloramphenicol	8	0
	Florfenicol	8	0
Cephalosporins	Cefotaxim	8	0
	Ceftazidim	8	0
Fluoroquinolones	Ciprofloxacin	8	0
Fully sensitive	Fully sensitive	8	0
Penicillins	Ampicillin	8	0
Quinolones	Nalidixic acid	8	0
Sulfonamides	Sulfonamide	8	0
Tetracyclines	Tetracyclin	8	0
Trimethoprim	Trimethoprim	8	0

Table Antimicrobial susceptibility testing of S. Manhattan - qualitative data

S. Manhattan		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		5	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	5	0
	Kanamycin	5	0
	Streptomycin	5	0
Amphenicols	Chloramphenicol	5	0
	Florfenicol	5	0
Cephalosporins	Cefotaxim	5	0
	Ceftazidim	5	0
Fluoroquinolones	Ciprofloxacin	5	0
Fully sensitive	Fully sensitive	2	0
Penicillins	Ampicillin	5	0
Quinolones	Nalidixic acid	5	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	3	0
Sulfonamides	Sulfonamide	5	3
Tetracyclines	Tetracyclin	5	0
Trimethoprim	Trimethoprim	5	0

Table Antimicrobial susceptibility testing of S. Manhattan in Pigs - Survey - EU baseline survey - quantitative data [Dilution method]

S. Manhattan <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> Antimicrobials:		Pigs - Survey - EU baseline survey																									
		yes																									
		5																									
		break points	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	
Aminoglycosides	Gentamicin	2	5	0						3	2													.25	32		
	Kanamycin	4	5	0									5											4	128		
	Neomycin		0	0																							
	Streptomycin	32	5	0										4	1									2	128		
Amphenicols	Chloramphenicol	16	5	0									5											2	64		
	Florfenicol	16	5	0								5												2	64		
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	5	0				5																.06	4		
	Ceftazidim	2	5	0						5														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	5	0		5																		.008	8		
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	5	0							5													.5	32		
Quinolones	Nalidixic acid	16	5	0									5											4	64		
Sulfonamides	Sulfonamide	256	5	2													2	1		2				8	1024		
Tetracyclines	Tetracyclin	8	5	0								5												1	64		
Trimethoprim	Trimethoprim	2	5	0							5													.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of S. Mbandaka - qualitative data

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		1	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	1	0
	Kanamycin	1	0
	Streptomycin	1	1
Amphenicols	Chloramphenicol	1	1
	Florfenicol	1	0
Cephalosporins	Cefotaxim	1	0
	Ceftazidim	1	0
Fluoroquinolones	Ciprofloxacin	1	0
Penicillins	Ampicillin	1	0
Quinolones	Nalidixic acid	1	0
Resistant to >4 antimicrobials	Resistant to >4 antimicrobials	1	0
Sulfonamides	Sulfonamide	1	1
Tetracyclines	Tetracyclin	1	1
Trimethoprim	Trimethoprim	1	1

Table Antimicrobial susceptibility testing of *S. Mbandaka* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Mbandaka Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																											
		yes																											
		1																											
		break points	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			
Aminoglycosides	Gentamicin	2	1	0						1														.25	32				
	Kanamycin	4	1	0									1											4	128				
	Neomycin		0	0																									
	Streptomycin	32	1	1														1						2	128				
Amphenicols	Chloramphenicol	16	1	1													1							2	64				
	Florfenicol	16	1	0											1									2	64				
Cephalosporins	3rd generation cephalosporins		0	0																									
	Cefotaxim	.5	1	0					1															.06	4				
	Ceftazidim	2	1	0						1														.25	16				
Fluoroquinolones	Ciprofloxacin	.06	1	0		1																		.008	8				
	Enrofloxacin		0	0																									
Penicillins	Ampicillin	4	1	0							1													.5	32				
Quinolones	Nalidixic acid	16	1	0									1											4	64				
Sulfonamides	Sulfonamide	256	1	1																	1			8	1024				
Tetracyclines	Tetracyclin	8	1	1													1							1	64				
Trimethoprim	Trimethoprim	2	1	1													1							.5	32				
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																									
	Trimethoprim + sulfonamides		0	0																									

Table Antimicrobial susceptibility testing of S. Muenster in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Muenster <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																										
		yes																										
		2																										
		break points	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		
Aminoglycosides	Gentamicin	2	2	0						1	1													.25	32			
	Kanamycin	4	2	0									2											4	128			
	Neomycin		0	0																								
	Streptomycin	32	2	0										1	1									1	128			
Amphenicols	Chloramphenicol	16	2	0										2										2	64			
	Florfenicol	16	2	0									1	1										2	64			
Cephalosporins	3rd generation cephalosporins		0	0																								
	Cefotaxim	.5	2	0				1	1															.06	4			
	Ceftazidim	2	2	0							2													.25	16			
Fluoroquinolones	Ciprofloxacin	.06	2	2						2														.008	8			
	Enrofloxacin		0	0																								
Penicillins	Ampicillin	4	2	0								2												.5	32			
Quinolones	Nalidixic acid	16	2	2													2							4	64			
Sulfonamides	Sulfonamide	256	2	1												1						1		8	1024			
Tetracyclines	Tetracyclin	8	2	0								2												1	64			
Trimethoprim	Trimethoprim	2	2	1							1					1								.5	32			
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																								
	Trimethoprim + sulfonamides		0	0																								

Table Antimicrobial susceptibility testing of S. Muenster - qualitative data

S. Muenster		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		2	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	2	0
	Kanamycin	2	0
	Streptomycin	2	0
Amphenicols	Chloramphenicol	2	0
	Florfenicol	2	0
Cephalosporins	Cefotaxim	2	0
	Ceftazidim	2	0
Fluoroquinolones	Ciprofloxacin	2	2
Penicillins	Ampicillin	2	0
Quinolones	Nalidixic acid	2	2
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	1	0
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials	1	0
Sulfonamides	Sulfonamide	2	1
Tetracyclines	Tetracyclin	2	0
Trimethoprim	Trimethoprim	2	1

Table Antimicrobial susceptibility testing of S. Putten - qualitative data

S. Putten Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		1	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	1	0
	Kanamycin	1	0
	Streptomycin	1	0
Amphenicols	Chloramphenicol	1	0
	Florfenicol	1	0
Cephalosporins	Cefotaxim	1	0
	Ceftazidim	1	0
Fluoroquinolones	Ciprofloxacin	1	0
Fully sensitive	Fully sensitive	1	0
Penicillins	Ampicillin	1	0
Quinolones	Nalidixic acid	1	0
Sulfonamides	Sulfonamide	1	0
Tetracyclines	Tetracyclin	1	0
Trimethoprim	Trimethoprim	1	0

Table Antimicrobial susceptibility testing of *S. Putten* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Putten <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		1																									
		break points	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	
Aminoglycosides	Gentamicin	2	1	0						1														.25	32		
	Kanamycin	4	1	0									1											4	128		
	Neomycin		0	0																							
	Streptomycin	32	1	0										1										2	128		
Amphenicols	Chloramphenicol	16	1	0									1											2	64		
	Florfenicol	16	1	0									1											2	64		
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	1	0					1															.06	4		
	Ceftazidim	2	1	0						1														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	1	0			1																	.008	8		
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	1	0								1												.5	32		
Quinolones	Nalidixic acid	16	1	0									1											4	64		
Sulfonamides	Sulfonamide	256	1	0													1							8	1024		
Tetracyclines	Tetracyclin	8	1	0									1											1	64		
Trimethoprim	Trimethoprim	2	1	0						1														.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of *S. Saintpaul* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																											
		yes																											
		1																											
		break points	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			
Aminoglycosides	Gentamicin	2	1	0						1															.25	32			
	Kanamycin	4	1	0									1												4	128			
	Neomycin		0	0																									
	Streptomycin	32	1	0								1													2	128			
Amphenicols	Chloramphenicol	16	1	0										1											2	64			
	Florfenicol	16	1	0									1												2	64			
Cephalosporins	3rd generation cephalosporins		0	0																									
	Cefotaxim	.5	1	0				1																	.06	4			
	Ceftazidim	2	1	0						1															.25	16			
Fluoroquinolones	Ciprofloxacin	.06	1	0		1																			.008	8			
	Enrofloxacin		0	0																									
Penicillins	Ampicillin	4	1	0							1														.5	32			
Quinolones	Nalidixic acid	16	1	0									1												4	64			
Sulfonamides	Sulfonamide	256	1	0													1								8	1024			
Tetracyclines	Tetracyclin	8	1	0								1													1	64			
Trimethoprim	Trimethoprim	2	1	0							1														.5	32			
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																									
	Trimethoprim + sulfonamides		0	0																									

Table Antimicrobial susceptibility testing of *S. Saintpaul* - qualitative data

S. Saintpaul Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - Monitoring	
		yes	
		1	
		N	n
Aminoglycosides	Gentamicin	1	0
	Kanamycin	1	0
	Streptomycin	1	0
Amphenicols	Chloramphenicol	1	0
	Florfenicol	1	0
Cephalosporins	Cefotaxim	1	0
	Ceftazidim	1	0
Fluoroquinolones	Ciprofloxacin	1	0
Fully sensitive	Fully sensitive	1	0
Penicillins	Ampicillin	1	0
Quinolones	Nalidixic acid	1	0
Sulfonamides	Sulfonamide	1	0
Tetracyclines	Tetracyclin	1	0
Trimethoprim	Trimethoprim	1	0

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Pigs - Clinical investigations - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - Clinical investigations																								
		break points	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
Aminoglycosides	Gentamicin	2	0	0																						
	Kanamycin	4	0	0																						
	Neomycin		0	0																						
	Streptomycin	32	0	0																						
Amphenicols	Chloramphenicol	16	0	0																						
	Florfenicol	16	0	0																						
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	0	0																						
	Ceftazidim	2	0	0																						
Fluoroquinolones	Ciprofloxacin	.06	0	0																						
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	0	0																						
Quinolones	Nalidixic acid	16	0	0																						
Sulfonamides	Sulfonamide	256	0	0																						
Tetracyclines	Tetracyclin	8	0	0																						
Trimethoprim	Trimethoprim	2	0	0																						
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of *S. Typhimurium* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		82																									
		break points	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	
Aminoglycosides	Gentamicin	2	82	0						21	60	1													.25	32	
	Kanamycin	4	82	0									82												4	128	
	Neomycin		0	0																							
	Streptomycin	32	82	68										1	12		1	35	33						2	128	
Amphenicols	Chloramphenicol	16	82	49									5	24	4		49								2	64	
	Florfenicol	16	82	40									22	14	6	33	7								2	64	
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	82	0				62	17	1	2														.06	4	
	Ceftazidim	2	82	0						67	15														.25	16	
Fluoroquinolones	Ciprofloxacin	.06	82	7		15	54	6		6	1														.008	8	
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	82	68								1	11	2	2		66								.5	32	
Quinolones	Nalidixic acid	16	82	7										70	5			7							4	64	
Sulfonamides	Sulfonamide	256	82	73													2	6	1				73		8	1024	
Tetracyclines	Tetracyclin	8	82	67									11	4			30	37							1	64	
Trimethoprim	Trimethoprim	2	82	23							58	1					23								.5	32	
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of S.Typhimurium in animals

S. Typhimurium Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Clinical investigations		Pigs - Monitoring		Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Turkeys		Gallus gallus (fowl) - laying hens		Gallus gallus (fowl) - broilers	
		no		yes		no											
		4		82		12											
		N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n
Antimicrobials:																	
Aminoglycosides	Apramycin	3	1			12	2										
	Framycetin	3	0			12	1										
	Gentamicin			82	0												
	Kanamycin			82	0												
	Neomycin	3	1			12	4										
	Streptomycin			82	68												
Amphenicols	Chloramphenicol			82	49												
	Florfenicol	4	0	82	40	12	9										
Cephalosporins	Cefotaxim			82	0												
	Ceftazidim			82	0												
Fluoroquinolones	Ciprofloxacin			82	7												
	Enrofloxacin	4	0			12	1										
Fully sensitive	Fully sensitive	4	0			12	2										
Penicillins	Amoxicillin / Clavulanic acid	4	1			12	2										
	Ampicillin			82	68												
Quinolones	Nalidixic acid			82	7												
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	4	1			12	2										
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	4	1			12	4										
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	4	0			12	2										
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials	4	2			12	1										

Table Antimicrobial susceptibility testing of S.Typhimurium in animals

S. Typhimurium		Pigs - Clinical investigations		Pigs - Monitoring		Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Turkeys		Gallus gallus (fowl) - laying hens		Gallus gallus (fowl) - broilers	
Isolates out of a monitoring program (yes/no)		no		yes		no											
Number of isolates available in the laboratory		4		82		12											
Antimicrobials:		N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n
Resistant to >4 antimicrobials	Resistant to >4 antimicrobials	4	0			12	1										
Sulfonamides	Sulfonamide			82	73												
Tetracyclines	Tetracyclin	4	3	82	67	12	9										
Trimethoprim	Trimethoprim			82	23												
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol	4	3			12	1										

Table Antimicrobial susceptibility testing of *S. Virchow* - qualitative data

S. Virchow		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		3	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	3	0
	Kanamycin	3	0
	Streptomycin	3	0
Amphenicols	Chloramphenicol	3	0
	Florfenicol	3	0
Cephalosporins	Cefotaxim	3	0
	Ceftazidim	3	0
Fluoroquinolones	Ciprofloxacin	3	0
Fully sensitive	Fully sensitive	3	0
Penicillins	Ampicillin	3	0
Quinolones	Nalidixic acid	3	0
Sulfonamides	Sulfonamide	3	0
Tetracyclines	Tetracyclin	3	0
Trimethoprim	Trimethoprim	3	0

Table Antimicrobial susceptibility testing of *S. Virchow* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Virchow Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																								
		yes																								
		3																								
		break points	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
Aminoglycosides	Gentamicin	2	3	0						3															.25	32
	Kanamycin	4	3	0										3											4	128
	Neomycin		0	0																						
	Streptomycin	32	3	0											2	1									2	128
Amphenicols	Chloramphenicol	16	3	0											3										2	64
	Florfenicol	16	3	0										2	1										2	64
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	3	0				1	2																.06	4
	Ceftazidim	2	3	0						2	1														.25	16
Fluoroquinolones	Ciprofloxacin	.06	3	0		1	2																		.008	8
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	3	0									3												.5	32
Quinolones	Nalidixic acid	16	3	0										3											4	64
Sulfonamides	Sulfonamide	256	3	0													1	1		1					8	1024
Tetracyclines	Tetracyclin	8	3	0									3												1	64
Trimethoprim	Trimethoprim	2	3	0							3														.5	32
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of S. Wien - qualitative data

S. Wien		Pigs - Monitoring	
Isolates out of a monitoring program (yes/no)		yes	
Number of isolates available in the laboratory		2	
Antimicrobials:		N	n
Aminoglycosides	Gentamicin	2	0
	Kanamycin	2	0
	Streptomycin	2	0
Amphenicols	Chloramphenicol	2	1
	Florfenicol	2	0
Cephalosporins	Cefotaxim	2	0
	Ceftazidim	2	0
Fluoroquinolones	Ciprofloxacin	2	0
Fully sensitive	Fully sensitive	1	0
Penicillins	Ampicillin	2	0
Quinolones	Nalidixic acid	2	0
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	1	0
Sulfonamides	Sulfonamide	2	1
Tetracyclines	Tetracyclin	2	1
Trimethoprim	Trimethoprim	2	0

Table Antimicrobial susceptibility testing of *S. Wien* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data [Dilution method]

S. Wien Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																								
		break points	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
Aminoglycosides	Gentamicin	2	2	0								2													.25	32
	Kanamycin	4	2	0										2											4	128
	Neomycin		0	0																						
	Streptomycin	32	1	0													1								2	128
Amphenicols	Chloramphenicol	16	2	1												1		1							2	64
	Florfenicol	16	2	0											1	1									2	64
Cephalosporins	3rd generation cephalosporins		0	0																						
	Cefotaxim	.5	2	0				2																	.06	4
	Ceftazidim	2	2	0						2															.25	16
Fluoroquinolones	Ciprofloxacin	.06	2	0				2																	.008	8
	Enrofloxacin		0	0																						
Penicillins	Ampicillin	4	2	0								2													.5	32
Quinolones	Nalidixic acid	16	2	0												2									4	64
Sulfonamides	Sulfonamide	256	2	1															1				1		8	1024
Tetracyclines	Tetracyclin	8	2	1										1				1							1	64
Trimethoprim	Trimethoprim	2	2	1									1	1											.5	32
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																						
	Trimethoprim + sulfonamides		0	0																						

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* in Pigs - breeding animals - Survey - EU baseline survey - quantitative data
[Dilution method]

S. enterica subsp. salamae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Pigs - breeding animals - Survey - EU baseline survey																									
		yes																									
		2																									
		break points	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	
Aminoglycosides	Gentamicin	2	2	0						1	1													.25	32		
	Kanamycin	4	2	0									2											4	128		
	Neomycin		0	0																							
	Streptomycin	32	2	1										1			1							2	128		
Amphenicols	Chloramphenicol	16	2	0										2										2	64		
	Florfenicol	16	2	0									2											2	64		
Cephalosporins	3rd generation cephalosporins		0	0																							
	Cefotaxim	.5	2	0				2																.06	4		
	Ceftazidim	2	2	0						2														.25	16		
Fluoroquinolones	Ciprofloxacin	.06	2	0		2																		.008	8		
	Enrofloxacin		0	0																							
Penicillins	Ampicillin	4	2	0							1	1												.5	32		
Quinolones	Nalidixic acid	16	2	0									2											4	64		
Sulfonamides	Sulfonamide	256	2	2																1	1			8	1024		
Tetracyclines	Tetracyclin	8	2	0								2												1	64		
Trimethoprim	Trimethoprim	2	2	0							2													.5	32		
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide		0	0																							
	Trimethoprim + sulfonamides		0	0																							

Table Antimicrobial susceptibility testing of *S. enterica* subsp. *salamae* - qualitative data

S. enterica subsp. salamae Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory		Pigs - Monitoring	
		yes	
		2	
		N	n
Antimicrobials:			
Aminoglycosides	Gentamicin	2	0
	Kanamycin	2	0
	Streptomycin	2	1
Amphenicols	Chloramphenicol	2	0
	Florfenicol	2	0
Cephalosporins	Cefotaxim	2	0
	Ceftazidim	2	0
Fluoroquinolones	Ciprofloxacin	2	0
Penicillins	Ampicillin	2	0
Quinolones	Nalidixic acid	2	0
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	1	0
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	1	0
Sulfonamides	Sulfonamide	2	2
Tetracyclines	Tetracyclin	2	0
Trimethoprim	Trimethoprim	2	0

Table Breakpoints for antibiotic resistance testing

Test Method Used	
Disc diffusion	○
Agar dilution	○
Broth dilution	●
E-test	○

Standards used for testing
EUCAST

			Breakpoint concentration (microg/ml)			Range tested concentration (microg/ml)		Disk content	Breakpoint Zone diameter (mm)		
		Standard for breakpoint	Susceptible <=	Intermediate	Resistant >	lowest	highest	microg	Susceptible >=	Intermediate	Resistant <=
Aminoglycosides	Gentamicin	EUCAST			2	.25	32				
	Kanamycin	EUCAST			4	4	128				
	Streptomycin	EUCAST			32	2	128				
Amphenicols	Chloramphenicol	EUCAST			16	2	64				
	Florfenicol	EUCAST			16	2	64				
Cephalosporins	Cefotaxim	EUCAST			.5	.06	4				
	Ceftazidim	EUCAST			2	.25	16				
Fluoroquinolones	Ciprofloxacin	EUCAST			.06	.008	8				
Penicillins	Ampicillin	EUCAST			4	.5	32				
Quinolones	Nalidixic acid	EUCAST			16	4	64				
Sulfonamides	Sulfonamide	EUCAST			256						
Tetracyclines	Tetracyclin	EUCAST			8	1	64				
Trimethoprim + sulfonamides	Trimethoprim + Sulfonamide	EUCAST				8	1024				
Trimethoprim	Trimethoprim	EUCAST			2	.5	32				

2.2 CAMPYLOBACTERIOSIS

2.2.1 General evaluation of the national situation

2.2.2 Campylobacteriosis in humans

2.2.3 Campylobacter in foodstuffs

Table Campylobacter in poultry meat

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	6	0					
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	OFML	single	25g	1	0					
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	OFML	single	25g	209	1	1				
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	18	0					
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	162	0					
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	2	0					
Meat from duck - meat products - at retail - Surveillance	OFML	single	25g	6	0					
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	6	0					

Table Campylobacter in poultry meat

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	8	0					
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0					
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	4	0					
Meat from turkey - meat products - at retail - Surveillance	OFML	single	25g	32	0					
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	19	0					
Meat from turkey - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	26	0					

Footnote:

The sampling program for all samples was Surveillance.

Table Campylobacter in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Bakery products - desserts - at retail - Surveillance	OFML	single	25g	3	0					
Bakery products - pastry - at retail - Surveillance	OFML	single	25g	2	0					
Cereals and meals - at retail - Surveillance	OFML	single	25g	16	0					
Cheeses, made from unspecified milk or other animal milk - at retail - Surveillance	OFML	single	25g	5	0					
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	4	0					
Crustaceans - unspecified - at retail - Surveillance	OFML	single	25g	8	0					
Crustaceans - unspecified - cooked - at retail - Surveillance	OFML	single	25g	1	0					
Crustaceans - unspecified - raw - at retail - Surveillance	OFML	single	25g	1	0					
Dairy products (excluding cheeses) - at retail - Surveillance	OFML	single	25g	1	0					
Dairy products (excluding cheeses) - cream - at retail - Surveillance	OFML	single	25g	1	0					
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	OFML	single	25g	1	0					
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	OFML	single	25g	4	0					
Egg products - at retail - Surveillance	OFML	single	25g	7	0					
Eggs - raw material (liquid egg) for egg products - at retail - Surveillance	OFML	single	25g	3	0					
Eggs - table eggs - at retail - Surveillance	OFML	single	25g	6	0					

Table Campylobacter in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Fishery products, unspecified - at retail - Surveillance	OFML	single	25g	4	0					
Fishery products, unspecified - raw - at retail - Surveillance	OFML	single	25g	1	0					
Fruits and vegetables - at retail - Surveillance	OFML	single	25g	2	0					
Fruits and vegetables - products - at retail - Surveillance	OFML	single	25g	2	0					
Juice - fruit juice - at retail - Surveillance	OFML	single	25g	1	0					
Meat from bovine animals - fresh - at retail - Surveillance	OFML	single	25g	1	0					
Meat from bovine animals - meat products - at retail - Surveillance	OFML	single	25g	36	0					
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	36	0					
Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	1	0					
Meat from other animal species or not specified - meat products - at retail - Surveillance	OFML	single	25g	21	0					
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	15	0					
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	2	0					
Meat from pig - meat products - at retail - Surveillance	OFML	single	25g	122	0					
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	66	0					

Table Campylobacter in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	90	0					
Meat from rabbit - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0					
Meat from sheep - meat products - at retail - Surveillance	OFML	single	25g	2	0					
Meat from sheep - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	8	0					
Meat, mixed meat - meat products - at retail - Surveillance	OFML	single	25g	11	0					
Meat, mixed meat - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	5	0					
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	9	0					
Milk from other animal species or unspecified - raw - at retail - Surveillance	OFML	single	25g	1	0					
Other processed food products and prepared dishes - at retail - Surveillance	OFML	single	25g	18	0					
Other processed food products and prepared dishes - noodles - at retail - Surveillance	OFML	single	25g	2	0					
Other processed food products and prepared dishes - pasta - at retail - Surveillance	OFML	single	25g	1	0					
Other processed food products and prepared dishes - pasta/rice salad - at retail - Surveillance	OFML	single	25g	8	0					
Other processed food products and prepared dishes - sandwiches - at retail - Surveillance	OFML	single	25g	179	0					
Ready-to-eat salads - at retail - Surveillance	OFML	single	25g	16	0					
Sauce and dressings - at retail - Surveillance	OFML	single	25g	20	0					

Table Campylobacter in other food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Soups - at retail - Surveillance	OFML	single	25g	3	0					
Spices and herbs - at retail - Surveillance	OFML	single	25g	2	0					

Footnote:

The sampling program for these samples was Surveillance.

2.2.4 Campylobacter in animals

Table Campylobacter in animals

	Source of information	Sampling unit	Units tested	Total units positive for thermophilic Campylobacter spp.	C. coli	C. jejuni	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified
Cattle (bovine animals) - calves (under 1 year)	Diagnostic	animal	2549	304		304			
Cattle (bovine animals) - dairy cows	Diagnostic	animal	18	2		2			
Deer	Diagnostic	animal	4	1		1			
Dogs	Diagnostic	animal	33	9		9			
Gallus gallus (fowl) - broilers - at farm	Diagnostic	animal	0						
Gallus gallus (fowl) - broilers - at slaughterhouse	Diagnostic	animal	0						
Goats	Diagnostic	animal	10	0					
Pigs	Diagnostic	animal	7	2		2			
Sheep	Diagnostic	animal	178	6		6			
Solipeds, domestic	Diagnostic	animal	14	1		1			

2.2.5 Antimicrobial resistance in Campylobacter isolates

Table Antimicrobial susceptibility testing of C. coli in Gallus gallus (fowl) - broilers - Survey - EU baseline survey - quantitative data [Dilution method]

C. coli Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Gallus gallus (fowl) - broilers - Survey - EU baseline survey																									
		yes																									
		59																									
		break points	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	
Aminoglycosides	Gentamicin	2	59	0					2	22	33	2															
	Streptomycin	4	59	7								44	8			7											
Amphenicols	Chloramphenicol	16	59	0									39	20													
Fluoroquinolones	Ciprofloxacin	1	59	10				41	4	4				10													
Macrolides	Erythromycin	16	59	0							40	17	2														
Penicillins	Ampicillin		0	0																							
Quinolones	Nalidixic acid	32	59	9									1	38	8	2	1	9									
Tetracyclines	Tetracyclin	2	59	7						47	5					7											

Table Antimicrobial susceptibility testing of *C. jejuni* in *Gallus gallus* (fowl) - broilers - Survey - EU baseline survey - quantitative data [Dilution method]

C. jejuni Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:		Gallus gallus (fowl) - broilers - Survey - EU baseline survey																									
		yes																									
		110																									
		break points	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	
Aminoglycosides	Gentamicin	1	110	2					29	57	22		1			1											
	Streptomycin	2	110	2								103	5			2											
Amphenicols	Chloramphenicol	16	110	0								102	8														
Fluoroquinolones	Ciprofloxacin	1	110	17				68	21	2	1	1		17													
Macrolides	Erythromycin	4	110	1							106	2	1		1												
Penicillins	Ampicillin		0	0																							
Quinolones	Nalidixic acid	16	110	18								20	61	10	1	2	16										
Tetracyclines	Tetracyclin	2	110	55						54	1			1	2	52											

Table Breakpoints used for antimicrobial susceptibility testing

Test Method Used		Standards used for testing	
Disc diffusion	<input type="radio"/>	EUCAST	
Agar dilution	<input type="radio"/>		
Broth dilution	<input checked="" type="radio"/>		
E-test	<input type="radio"/>		

			Breakpoint concentration (microg/ml)			Range tested concentration (microg/ml)		Disk content	Breakpoint Zone diameter (mm)		
		Standard for breakpoint	Susceptible <=	Intermediate	Resistant >	lowest	highest	microg	Susceptible >=	Intermediate	Resistant <=
Aminoglycosides	Gentamicin	EUCAST			1	.12	16				
	Streptomycin	EUCAST			2	1	16				
Amphenicols	Chloramphenicol	EUCAST			16	2	32				
Fluoroquinolones	Ciprofloxacin	EUCAST			1	.06	4				
Macrolides	Erythromycin				4	.5	32				
Quinolones	Nalidixic acid	EUCAST			16	2	64				
Tetracyclines	Tetracyclin	EUCAST			2	.25	16				

Footnote:

Where 2 figures are listed in the resistant column, the first one indicates C. jejuni resistant and the second one indicates C. coli resistant.
e.g. Nalidixic acid is C. jejuni resistant at >16 and C. coli resistant at >32.

2.3 LISTERIOSIS

2.3.1 General evaluation of the national situation

2.3.2 Listeriosis in humans

2.3.3 Listeria in foodstuffs

Table Listeria monocytogenes in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for L.monocytogenes	Units tested with detection method	Listeria monocytogenes presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogenes > 100 cfu/g
Cheeses made from cows' milk - unspecified - at retail - Surveillance	OFML	single	25g	1	0	1	0	1	0	0
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	10	0	10	0			
Cheeses made from goats' milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Cheeses made from goats' milk - unspecified - at retail - Surveillance	OFML	single	25g	8	0	2	0	8	0	0
Cheeses made from goats' milk - unspecified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	15	0	15	0			
Cheeses made from goats' milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	5	0	5	0			
Cheeses made from sheep's milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	1	0	1	0	1	0	0
Cheeses made from sheep's milk - unspecified - at retail - Surveillance	OFML	single	25g	2	0	1	0	2	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Cheeses made from sheep's milk - unspecified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	10	0	10	0			
Cheeses made from sheep's milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	5	0	5	0			
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance	OFML	single	25g	6	2	2	1	6	0	1
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	22	0	18	0	22	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	100	0	100	0			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	1	0	1	0			
Cheeses, made from unspecified milk or other animal milk - unspecified - at retail - Surveillance	OFML	single	25g	200	1	35	1	200	0	0
Cheeses, made from unspecified milk or other animal milk - unspecified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	885	12	885	12			
Cheeses, made from unspecified milk or other animal milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	550	33	550	33			
Dairy products (excluding cheeses) - butter - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Dairy products (excluding cheeses) - butter - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	245	0	245	0			
Dairy products (excluding cheeses) - butter - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	15	0	15	0			
Dairy products (excluding cheeses) - cream - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	100	0	100	0			
Dairy products (excluding cheeses) - cream - at retail - Surveillance	OFML	single	25g	57	0	11	0	57	0	0
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	OFML	single	25g	69	0	26	0	69	0	0
Dairy products (excluding cheeses) - dairy products, not specified - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	451	0	451	0			
Dairy products (excluding cheeses) - dairy products, not specified - at retail - Surveillance	OFML	single	25g	7	0	4	0	7	0	0
Dairy products (excluding cheeses) - dairy products, not specified - made from pasteurised milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	280	0	280	0			
Dairy products (excluding cheeses) - ice-cream - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	526	10	526	0			
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	OFML	single	25g	86	0	32	0	86	0	0
Dairy products (excluding cheeses) - milk powder and whey powder - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	385	0	30	0	355	0	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Milk from other animal species or unspecified - at retail - Surveillance	OFML	single	25g	5	0	3	0	5	0	0
Milk from other animal species or unspecified - pasteurised - at retail - Surveillance	OFML	single	25g	7	0	1	0	7	0	0
Milk from other animal species or unspecified - raw - at retail - Surveillance	OFML	single	25g	1	1	1	1	1	0	0
Milk from other animal species or unspecified - raw milk for manufacture - intended for manufacture of raw or low heat-treated products - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	11	0	11	0			
Milk, goats' - raw milk for manufacture - intended for manufacture of raw or low heat-treated products - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	10	0	10	0			

Footnote:

The sampling program for all samples was Surveillance. Samples from Processing source 4, DSL: batches comprised of 1-20 samples each of 25g weight.

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but <= 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Bakery products - at retail - Surveillance	OFML	single	25g	6	0	0	0	6	0	0
Bakery products - bread - at retail - Surveillance	OFML	single	25g	15	0	4	0	15	0	0
Bakery products - cakes - at retail - Surveillance	OFML	single	25g	137	0	41	0	137	0	0
Bakery products - desserts - at retail - Surveillance	OFML	single	25g	147	0	37	0	147	0	0
Bakery products - pastry - at retail - Surveillance	OFML	single	25g	67	0	5	0	67	0	0
Beverages, non-alcoholic - soft drinks - at retail - Surveillance	OFML	single	25g	40	0	15	0	40	0	0
Cereals and meals - at retail - Surveillance	OFML	single	25g	214	2	23	1	208	1	1
Chocolate - at retail - Surveillance	OFML	single	25g	2	0	1	0	2	0	0
Cocoa and cocoa preparations, coffee and tea - at retail - Surveillance	OFML	single	25g	16	0	1	0	16	0	0
Confectionery products and pastes - at retail - Surveillance	OFML	single	25g	26	0	12	0	26	0	0
Crustaceans - unspecified - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	1	0	1	0			
Crustaceans - unspecified - at retail - Surveillance	OFML	single	25g	42	1	19	1	42	0	0
Crustaceans - unspecified - cooked - at retail - Surveillance	OFML	single	25g	34	0	19	0	34	0	0
Crustaceans - unspecified - raw - at retail - Surveillance	OFML	single	25g	3	0	0	0	3	0	0
Egg products - at retail - Surveillance	OFML	single	25g	426	1	36	0	424	1	0
Eggs - raw material (liquid egg) for egg products - at retail - Surveillance	OFML	single	25g	3	0	2	0	3	0	0
Eggs - table eggs - at retail - Surveillance	OFML	single	25g	4	0	1	0	4	0	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Fish - smoked - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	7	0	7	0			
Fish - smoked - at retail - Surveillance	OFML	single	25g	29	2	17	2	29	0	0
Fishery products, unspecified - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	4	0	4	0			
Fishery products, unspecified - at retail - Surveillance	OFML	single	25g	165	1	24	0	165	1	0
Fishery products, unspecified - cooked - at retail - Surveillance	OFML	single	25g	175	0	13	0	173	0	0
Fishery products, unspecified - raw - at retail - Surveillance	OFML	single	25g	4	0	2	0	4	0	0
Fruits and vegetables - at retail - Surveillance	OFML	single	25g	140	0	5	0	140	0	0
Fruits and vegetables - precut - at retail - Surveillance	OFML	single	25g	58	1	5	0	58	1	0
Fruits and vegetables - products - at retail - Surveillance	OFML	single	25g	89	5	17	5	89	0	0
Infant formula - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	260	0	260	0			
Juice - fruit juice - at retail - Surveillance	OFML	single	25g	8	0	4	0	0	8	0
Meat from bovine animals - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	1	0	1	0			
Meat from bovine animals - fresh - at retail - Surveillance	OFML	single	25g	1	0	1	0	1	0	0
Meat from bovine animals - meat products - at retail - Surveillance	OFML	single	25g	266	1	21	1	264	0	0
Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	28	0	28	0			

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	OFML	single	25g	0	0	0	0	0	0	0
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	218	2	43	1	212	0	1
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Meat from bovine animals and pig - meat products - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	2	0	2	0			
Meat from broilers (<i>Gallus gallus</i>) - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	8	0	8	0			
Meat from broilers (<i>Gallus gallus</i>) - fresh - at retail - Surveillance	OFML	single	25g	1	0	1	0	1	0	0
Meat from broilers (<i>Gallus gallus</i>) - meat products - at retail - Surveillance	OFML	single	25g	765	0	40	0	764	0	0
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	78	5	78	5			
Meat from broilers (<i>Gallus gallus</i>) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	372	3	70	3	359	0	0
Meat from broilers (<i>Gallus gallus</i>) - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Meat from deer (venison) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Meat from duck - meat products - at retail - Surveillance	OFML	single	25g	26	1	4	0	26	0	1

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	16	0	1	0	16	0	0
Meat from other animal species or not specified - meat products - at retail - Surveillance	OFML	single	25g	158	0	46	0	158	0	0
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	70	1	15	1	55	0	0
Meat from other animal species or not specified - minced meat - at retail - Surveillance	OFML	single	25g	5	0	0	0	5	0	0
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	0	0	0	0	0	0	0
Meat from pig - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	2	0	2	0			
Meat from pig - meat products - at retail - Surveillance	OFML	single	25g	615	3	115	2	615	0	1
Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	86	7	86	7			
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	258	0	53	0	257	0	0
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	8	0	7	0	8	0	0
Meat from poultry, unspecified - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	24	0	24	0			
Meat from rabbit - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Meat from sheep - meat products - at retail - Surveillance	OFML	single	25g	27	0	3	0	24	0	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Meat from sheep - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	1	0	1	0			
Meat from sheep - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	34	0	3	0	34	0	0
Meat from turkey - fresh - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	9	0	9	0			
Meat from turkey - meat products - at retail - Surveillance	OFML	single	25g	108	0	9	0	107	0	0
Meat from turkey - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	37	0	37	0			
Meat from turkey - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	53	0	9	0	53	0	0
Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	3	0	3	0			
Meat, mixed meat - meat products - at retail - Surveillance	OFML	single	25g	45	1	13	1	44	1	0
Meat, mixed meat - meat products - cooked, ready-to-eat - at processing plant - Surveillance (Processing source 2)	CMCL	single	25g	9	1	9	1			
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	23	0	5	0	23	0	0
Molluscan shellfish - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	6	0	6	0			
Molluscan shellfish - cooked - at processing plant - Surveillance (Processing source 5)	SFPA	single	25g	2	0	2	0			
Molluscan shellfish - cooked - at retail - Surveillance	OFML	single	25g	4	0	2	0	4	0	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Nuts and nut products - at retail - Surveillance	OFML	single	25g	4	0	1	0	4	0	0
Other food of non-animal origin - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Other processed food products and prepared dishes - ices and similar frozen desserts - at retail - Surveillance	OFML	single	25g	2	0	0	0	2	0	0
Other processed food products and prepared dishes - noodles - at retail - Surveillance	OFML	single	25g	18	0	3	0	18	0	0
Other processed food products and prepared dishes - pasta - at retail - Surveillance	OFML	single	25g	39	0	5	0	38	0	0
Other processed food products and prepared dishes - pasta/rice salad - at retail - Surveillance	OFML	single	25g	90	1	17	1	90	0	0
Other processed food products and prepared dishes - sandwiches - at retail - Surveillance	OFML	single	25g	10	0	4	0	10	0	0
Other processed food products and prepared dishes - sandwiches - non-meat - at retail - Surveillance	OFML	single	25g	107	4	17	4	107	1	0
Other processed food products and prepared dishes - sandwiches - with meat - at retail - Surveillance	OFML	single	25g	395	0	65	0	395	0	0
Other processed food products and prepared dishes - unspecified - ready-to-eat foods - at retail - Surveillance	OFML	single	25g	1166	3	157	3	1166	0	0
Other processed food products and prepared dishes - vegetarian pate - at retail - Surveillance	OFML	single	25g	2	0	2	0	2	0	0
Potato chips - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0
Ready-to-eat salads - at retail - Surveillance	OFML	single	25g	661	3	70	3	661	1	0
Ready-to-eat salads - containing mayonnaise - at retail - Surveillance	OFML	single	25g	2	0	1	0	2	0	0

Table *Listeria monocytogenes* in other foods

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for <i>L.monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g	Units tested with enumeration method	> detection limit but <= 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Sauce and dressings - Mayonnaise - at retail - Surveillance	OFML	single	25g	32	0	5	0	32	0	0
Sauce and dressings - at retail - Surveillance	OFML	single	25g	281	0	30	0	280	0	0
Seeds, dried - at retail - Surveillance	OFML	single	25g	15	0	6	0	15	0	0
Soups - at retail - Surveillance	OFML	single	25g	112	0	12	0	111	0	0
Spices and herbs - at retail - Surveillance	OFML	single	25g	28	0	12	0	27	0	0
Sweets - at retail - Surveillance	OFML	single	25g	1	0	0	0	1	0	0

Footnote:

The sampling program for all samples was Surveillance.

The following amendments were made:

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested with enumeration method	8	0
	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested with detection method	4	0
	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	8	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	Units tested	218	0

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	Total units positive for L.monocytogenes	2	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	Units tested with detection method	43	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	Listeria monocytogenes presence in x g	1	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	Units tested with enumeration method	212	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail	L. monocytogenes > 100 cfu/g	1	0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Source of information		OFML
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Sampling unit		single
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Sample weight		25g
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Units tested		218
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Total units positive for L.monocytogenes		2
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Units tested with detection method		43
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Listeria monocytogenes presence in x g		1
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Units tested with enumeration method		212
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	> detection limit but <= 100 cfu/g		0
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	L. monocytogenes > 100 cfu/g		1

Date of Modification	Species	Column	Old Value	New Value
2009-12-03	Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail - Surveillance	Units tested	62	70
	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	0	1
	Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	Units tested	1	0
2010-01-13	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Total units positive for L.monocytogenes	2	1
	Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	Total units positive for L.monocytogenes	1	2

2.3.4 Listeria in animals

Table Listeria in animals

	Source of information	Sampling unit	Units tested	Total units positive for Listeria spp.	L. monocytogenes	Listeria spp., unspecified	L. grayi
Birds - wild	Diagnostic	animal	47	0			
Cattle (bovine animals) - calves (under 1 year)	Diagnostic	animal	5840	4	3	1	1
Cattle (bovine animals) - dairy cows	Diagnostic	animal	574	4	3	1	
Cattle (bovine animals) - unspecified - at farm - animal sample - foetus/stillbirth - Clinical investigations	Diagnostic	animal	2252	62	41	20	1
Gallus gallus (fowl)	Diagnostic	animal	166	0			
Goats	Diagnostic	animal	106	0			
Lamas	Diagnostic	animal	1	1	1		
Pigs	Diagnostic	animal	480	0			
Sheep	Diagnostic	animal	1065	11	8	3	
Turkeys	Diagnostic	animal	32	0			

2.4 E. COLI INFECTIONS

2.4.1 General evaluation of the national situation

2.4.2 E. coli infections in humans

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 Verotoxigeni c E. coli (VTEC)	Verotoxigeni c E. coli (VTEC)- VTEC O157	Verotoxigeni c E. coli (VTEC)- VTEC non-O157	Verotoxigeni c E. coli (VTEC)- VTEC, unspecified
Beverages, non-alcoholic - soft drinks - at retail - Surveillance	OFML	single	25g	1	0			
Cereals and meals - at retail - Surveillance	OFML	single	25g	5	0			
Cheeses, made from unspecified milk or other animal milk - hard - at retail - Surveillance	OFML	single	25g	4	0			
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - at retail - Surveillance	OFML	single	25g	2	0			
Crustaceans - unspecified - at retail - Surveillance	OFML	single	25g	1	0			
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	OFML	single	25g	2	0			
Dairy products (excluding cheeses) - ice-cream - at retail - Surveillance	OFML	single	25g	1	0			
Egg products - at retail - Surveillance	OFML	single	25g	2	0			
Eggs - at retail - Surveillance	OFML	single	25g	1	0			
Fishery products, unspecified - at retail - Surveillance	OFML	single	25g	2	0			

Table VT E. coli in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigeni c E. coli (VTEC)	Verotoxigeni c E. coli (VTEC)- VTEC O157	Verotoxigeni c E. coli (VTEC)- VTEC non-O157	Verotoxigeni c E. coli (VTEC)- VTEC, unspecified
Fishery products, unspecified - cooked - at retail - Surveillance	OFML	single	25g	1	0			
Fruits and vegetables - at retail - Surveillance	OFML	single	25g	5	0			
Fruits and vegetables - products - at retail - Surveillance	OFML	single	25g	2	0			
Juice - fruit juice - at retail - Surveillance	OFML	single	25g	4	0			
Juice - vegetable juice - at retail - Surveillance	OFML	single	25g	1	0			
Meat from bovine animals - meat products - at retail - Surveillance	OFML	single	25g	7	0			
Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	8	0			
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	5	0			
Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	2	0			
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	OFML	single	25g	1	0			
Meat from broilers (Gallus gallus) - meat products - at retail - Surveillance	OFML	single	25g	3	0			
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	15	0			
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0			
Meat from other animal species or not specified - meat products - at retail - Surveillance	OFML	single	25g	3	0			

Table VT E. coli in food

	Source of information	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigeni c E. coli (VTEC)	Verotoxigeni c E. coli (VTEC)- VTEC O157	Verotoxigeni c E. coli (VTEC)- VTEC non-O157	Verotoxigeni c E. coli (VTEC)- VTEC, unspecified
Meat from other animal species or not specified - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	5	0			
Meat from other animal species or not specified - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	1	0			
Meat from other animal species or not specified - minced meat - at retail - Surveillance	OFML	single	25g	2	0			
Meat from other animal species or not specified - minced meat - intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	2	0			
Meat from pig - meat products - at retail - Surveillance ¹⁾	OFML	single	25g	4	1	1		
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	4	0			
Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	2	0			
Meat from sheep - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	2	0			
Meat from turkey - meat products - at retail - Surveillance	OFML	single	25g	4	0			
Meat, mixed meat - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	0			
Milk from other animal species or unspecified - raw - at retail - Surveillance	OFML	single	25g	1	0			
Other processed food products and prepared dishes - pasta/rice salad - at retail - Surveillance	OFML	single	25g	1	0			
Other processed food products and prepared dishes - sandwiches - non-meat - at retail - Surveillance	OFML	single	25g	2	0			

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 (VTEC)-VTEC O157	Verotoxigenic E. coli (VTEC)-VTEC non-O157	Verotoxigenic E. coli (VTEC)-VTEC, unspecified
Other processed food products and prepared dishes - unspecified - ready-to-eat foods - at retail - Surveillance	OFML	single	25g	3	0			
Sauce and dressings - at retail - Surveillance	OFML	single	25g	2	0			

Comments:

¹⁾ The Phage Type of the positive VTEC O157 sample is PT32

Footnote:

VTEC testing routinely performed by the OFML labs detects the O157 and O26 serotypes only. Of the total 115 tests performed, 23 were O26 tests and 92 were O157 tests.

2.4.4 Escherichia coli, pathogenic in animals

2.5 TUBERCULOSIS, MYCOBACTERIAL DISEASES

2.5.1 General evaluation of the national situation

2.5.2 Tuberculosis, mycobacterial diseases in humans

2.5.3 Mycobacterium in animals

Table Tuberculosis in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Mycobacterium spp.	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Badgers	DAFF Lab &	animal	1754	406	399		7
Birds	RVL	animal	2	0			
Cats	RVL	animal	2	1		1	
Cattle (bovine animals)	RVL	animal	18	7	7		
Deer	DAFF Lab &	animal	138	61	57		4
Goats	DAFF Lab &	animal	6000	340	340		
Pigs	DAFF Lab &	animal	4	0	0		
Sheep	DAFF Lab &	animal	45	5	5		
Zoo animals, all	RVL	animal	3	0	0	0	0

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

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	Indicators		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
IRELAND	118030	118030	116184	7042	6837	25	.36	98.44	6.06	5.88
Total	118030	118030	116184	7042	6837	25	0.36	98.44	6.06	5.88
Total - 1	120652	120652	116964	7235	7046	21	.29	96.94	6.19	6.02

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

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		Indicators	
						Number of animals with positive result slaughtered or	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
IRELAND	6150159	6150159	6054387	6053970	29901	29901	32345	98.44	.49
Total	6150159	6150159	6054387	6053970	29901	29901	32345	98.44	0.49
Total - 1	6084037	6084037	6009402	6009402	27711	27211	29277	98.77	.46

Table Bovine tuberculosis - data on status of herds at the end of the period - Community co-financed eradication programmes

	Status of herds and animals under the programme													
	Total number of herds and animals under the programme		Unknown		Not free or not officially free				Free or officially free suspended		Free		Officially free	
					Last check positive		Last check positive							
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
IRELAND	118030	6150159	0	0	1974	221125	1850	191328	303	34046	0	0	113903	5703660
Total	118030	6150159	0	0	1974	221125	1850	191328	303	34046	0	0	113903	5703660
Total - 1	120652	6084037	0	0	2303	235513	1733	166470	334	33670	0	0	116282	5648384

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

Region	Total number of existing bovine		Officially free herds		Infected herds		Routine tuberculin testing		Number of tuberculin tests carried out before the introduction into the herds (Annex A(I)(2)(c) third indent (1) of Directive 64/432/EEC)	Number of animals with suspicious lesions of tuberculosis examined and submitted to histopathological and bacteriological examinations	Number of animals detected positive in bacteriological examination
	Herds	Animals	Number of herds	%	Number of herds	%	Interval between routine tuberculin tests	Number of animals tested			
IRELAND	118030	6150159	0	0	6837	5.79		6054387		4821	3199
Total	118030	6150159	0	0.0	6837	5.79	0	6054387	0	4821	3199
Total - 1											

2.6 BRUCELLOSIS

2.6.1 General evaluation of the national situation

2.6.2 Brucellosis in humans

2.6.3 Brucella in animals

Table Brucellosis in other animals

	Source of information	Sampling unit	Units tested	Total units positive for Brucella spp.	B. abortus	B. melitensis	B. suis	Brucella spp., unspecified
Badgers	Diagnostic	animal	1	0				
Cattle (bovine animals)	Diagnostic	animal	2109	0				
Deer	Diagnostic	animal	3	0				
Pigs	Diagnostic	animal	1	0				
Sheep	diagnostic	animal	1	0				
Solipeds, domestic - horses	Diagnostic	animal	16	0				
Zoo animals, all	Diagnostic	animal	2	0				

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

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	Indicators		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence
IRELAND	118030	118030	116184	111	111	0	0	98.44	.1	.1
Total	118030	118030	116184	111	111	0	0.0	98.44	0.1	0.1
Total - 1	120654	120654	116952	161	161	0	0	96.93	.14	.14

Footnote:

On the basis of further testing and detailed epidemiological investigations, all 111 herds with positive serological results in 2008 were found not to be infected with Brucellosis. (The same applies to the 161 herds in 2007).

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

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		Indicators	
						Number of animals with positive result slaughtered or	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence
IRELAND	6150163	3391515	3391515	3391515	140	140	149	100	0
Total	6150163	3391515	3391515	3391515	140	140	149	100.0	0.0
Total - 1	6066989	3324511	3324511	3324511	192	192	192	100	.01

Footnote:

All positive animals in 2008 were false positive/ non-specific reactions. In addition to 140 seropositive animals slaughtered, 9 in-contact animals were also slaughtered as a precaution. There have been no confirmed brucellosis positive animals in Ireland since 2006.

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

	Status of herds and animals under the programme													
	Total number of herds and animals under the programme		Unknown		Not free or not officially free				Free or officially free suspended		Free		Officially free	
					Last check positive		Last check positive							
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
IRELAND	118030	6150163	0	0	14	1300	4	350	0	0	0	0	118012	6148513
Total	118030	6150163	0	0	14	1300	4	350	0	0	0	0	118012	6148513
Total - 1	120654	6066989	0	0	24	2500	8	650	0	0	0	0	120622	6063839

Footnote:

Any positive results in 2008 were false positive serological reactions. There has been no confirmed brucellosis in Ireland since 2006.

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

Region	Total number of existing		Officially free herds		Infected herds		Surveillance			Investigations of suspect cases				
	Herds	Animals	Number of herds	%	Number of herds	%	Number of herds tested	Number of animals tested	Number of infected herds	Number of animals tested with serological blood tests	Number of animals positive serologically	Number of animals examined microbiologically	Number of animals positive microbiologically	Number of suspended herds
IRELAND	35000	3600000	35000	100	0	0	1300	25000	0	0	0	0	0	0
Total	35000	3600000	35000	100.0	0	0.0	1300	25000	0	0	0	0	0	0
Total - 1														

Footnote:

Ireland is recognised as Officially Free of B.Meletensis (Commission Decision 93/52), and carries out an annual survey to confirm this freedom. Figures for 2008 are provisional; final figures can be forwarded when available.

2.7 YERSINIOSIS

2.7.1 General evaluation of the national situation

2.7.2 Yersiniosis in humans

2.7.3 Yersinia in animals

Table Yersinia in animals

	Source of information	Sampling unit	Units tested	Total units positive for Yersinia spp.	Y. enterocolitic a	Yersinia spp., unspecified	Y. enterocolitic a-O:3	Y. enterocolitic a-O:9	Y. enterocolitic a-unspecified
Cats	Diagnostic	animal	68	0					
Cattle (bovine animals)	Diagnostic	animal	9613	0					
Dogs	Diagnostic	animal	535	0					
Goats	Diagnostic	animal	106	0					
Pigs	Diagnostic	animal	480	0					
Poultry, unspecified	Diagnostic	animal	198	0					
Sheep	Diagnostic	animal	1065	0					
Solipeds, domestic	Diagnostic	animal	1160	0					

2.8 TRICHINELLOSIS

2.8.1 General evaluation of the national situation

2.8.2 Trichinellosis in humans

2.8.3 Trichinella in animals

Table Trichinella in animals

	Source of information	Sampling unit	Units tested	Total units positive for Trichinella spp.	T. spiralis	Trichinella spp., unspecified
Badgers - Survey - national survey		animal	445	0		
Foxes - from hunting - Survey - national survey		animal	452	2	2	
Pigs - at slaughterhouse - Monitoring - industry sampling		animal	2558362	0		
Pigs - at slaughterhouse - Monitoring - official sampling		animal	2931	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring - industry sampling		animal	1506	0		
Solipeds, domestic - horses - at slaughterhouse - Monitoring - official sampling		animal	80	0		

2.9 ECHINOCOCCOSIS

2.9.1 General evaluation of the national situation

2.9.2 Echinococcosis in humans

2.10 TOXOPLASMOSIS

2.10.1 General evaluation of the national situation

2.10.2 Toxoplasmosis in humans

2.10.3 Toxoplasma in animals

Table Toxoplasma in animals

	Source of information	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii
Cats	Diagnostic	animal	4	0	
Cattle (bovine animals)	Diagnostic	animal	37	1	1
Dogs	Diagnostic	animal	5	0	
Goats	Diagnostic	animal	10	1	1
Pigs	Diagnostic	animal	8	1	1
Sheep	Diagnostic	animal	521	81	81
Solipeds, domestic	Diagnostic	animal	9	0	

2.11 RABIES

2.11.1 General evaluation of the national situation

2.11.2 Rabies in humans

2.11.3 Lyssavirus (rabies) in animals

Table Rabies in animals

	Source of information	Sampling unit	Units tested	Total units positive for Lyssavirus (rabies)	Unspecified Lyssavirus	Classical rabies virus (genotype 1)	European Bat Lyssavirus - unspecified
Dogs	Diagnostic	animal	1	0			

2.12 Q-FEVER

2.12.1 General evaluation of the national situation

3. INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL RESISTANCE

3.1 ENTEROCOCCUS, NON-PATHOGENIC

3.1.1 General evaluation of the national situation

3.1.2 Antimicrobial resistance in Enterococcus, non-pathogenic isolates

Table Antimicrobial susceptibility testing of *E. faecium* - qualitative data

E. faecium		Cattle (bovine animals)		Dogs	
Isolates out of a monitoring program (yes/no)		no		no	
Number of isolates available in the laboratory		7		2	
Antimicrobials:		N	n	N	n
Aminoglycosides	Apramycin	0	0	0	0
	Framycetin	5	2	0	0
	Neomycin	5	5	0	0
	Streptomycin	2	2	2	1
Amphenicols	Florfenicol	2	0	2	0
Cephalosporins	Cefalexin	6	4	2	1
Fluoroquinolones	Enrofloxacin	2	1	2	0
Penicillins	Amoxicillin / Clavulanic acid	7	2	2	0
	Penicillin	7	3	2	0
Tetracyclines	Tetracyclines	7	5	2	0
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol	2	1	2	2

Table Antimicrobial susceptibility testing of *E. faecalis* - qualitative data

E. faecalis		Cattle (bovine animals)		Dogs	
Isolates out of a monitoring program (yes/no)		no		no	
Number of isolates available in the laboratory		60		5	
Antimicrobials:		N	n	N	n
Aminoglycosides	Apramycin	3	2	1	0
	Framycetin	58	11	1	1
	Neomycin	58	30	1	1
	Streptomycin	1	1	4	4
Amphenicols	Florfenicol	4	0	5	0
Cephalosporins	Cefalexin	57	23	4	4
Fluoroquinolones	Enrofloxacin	4	1	5	3
Penicillins	Amoxicillin / Clavulanic acid	60	2	5	1
	Penicillin	57	14	4	3
Tetracyclines	Tetracyclines	59	26	5	3
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol	4	3	5	4

Table Breakpoints for antibiotic resistance of Enterococcus, non-pathogenic

Test Method Used	
Disc diffusion	<input type="radio"/>
Agar dilution	<input type="radio"/>
Broth dilution	<input type="radio"/>
E-test	<input type="radio"/>

Standards used for testing

			Breakpoint concentration (microg/ml)			Range tested concentration (microg/ml)		Disk content	Breakpoint Zone diameter (mm)		
		Standard for breakpoint	Susceptible <=	Intermediate	Resistant >	lowest	highest	microg	Susceptible >=	Intermediate	Resistant <=
Aminoglycosides	Apramycin							15	21		14
	Framycetin							100	17		12
	Neomycin							10	17		12
Amphenicols	Florfenicol							30	19		14
Fluoroquinolones	Enrofloxacin							5	23		16
Penicillins	Amoxicillin / Clavulanic acid							30	18		13
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol							25	23		16
Tetracyclines	Tetracyclines							10	19		14

3.2 ESCHERICHIA COLI, NON-PATHOGENIC

3.2.1 General evaluation of the national situation

3.2.2 Antimicrobial resistance in Escherichia coli, non-pathogenic

Table Antimicrobial susceptibility testing of E. coli in animals

E. coli		Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Turkeys		Sheep		Dogs	
Isolates out of a monitoring program (yes/no)		no		no		no				no		no	
Number of isolates available in the laboratory		3967		50		17		0		152		124	
Antimicrobials:		N	n	N	n	N	n	N	n	N	n	N	n
Aminoglycosides	Apramycin	3224	1097	44	19	9	0			116	32	95	21
	Framycetin	3829	518	45	6	8	0			123	8	95	6
	Neomycin	3826	2630	45	26	8	3			124	49	94	53
	Streptomycin	118	86	3	2	7	4			28	13	29	14
Amphenicols	Florfenicol	3528	1538	49	5	16	0			152	31	124	20
Cephalosporins	Cefalexin	528	230	4	1	8	1			28	16	30	18
Fluoroquinolones	Enrofloxacin	3514	1148	49	16	17	2			149	13	124	25
Fully sensitive	Fully sensitive	3967	678	50	13					152	58	124	30
Penicillins	Amoxicillin / Clavulanic acid	3967	1437	48	7	10	1			152	17	124	29
	Penicillin	560	530	4	4	8	8			29	27	30	28
Resistant to 1 antimicrobial	Resistant to 1 antimicrobial	3967	265	50	3					152	23	124	20
Resistant to 2 antimicrobials	Resistant to 2 antimicrobials	3967	381	50	6					152	17	124	12
Resistant to 3 antimicrobials	Resistant to 3 antimicrobials	3967	561	50	9					152	19	124	26
Resistant to 4 antimicrobials	Resistant to 4 antimicrobials	3967	521	50	6					152	11	124	8

Table Antimicrobial susceptibility testing of E. coli in animals

E. coli		Cattle (bovine animals)		Pigs		Gallus gallus (fowl)		Turkeys		Sheep		Dogs	
Isolates out of a monitoring program (yes/no)		no		no		no				no		no	
Number of isolates available in the laboratory		3967		50		17		0		152		124	
Antimicrobials:		N	n	N	n	N	n	N	n	N	n	N	n
Resistant to >4 antimicrobials	Resistant to >4 antimicrobials	3967	1561	50	13					152	24	124	28
Tetracyclines	Tetracyclin	3948	3016	50	41	17	10			152	74	124	67
Trimethoprim + sulfonamides	Trimethoprim + Sulfamethoxazol	3543	2342	50	37	17	8			152	50	124	57

4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS

4.1 HISTAMINE

4.1.1 General evaluation of the national situation

4.1.2 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 processing plant - Surveillance (Processing source 5, weight 1)	SFPA	single	100g	88	0	88			
Fishery products, unspecified - at processing plant - Surveillance (Processing source 5, weight 2)	SFPA	single	1Kg	1	0	1			

Footnote:

The sampling program for these samples was Surveillance.

4.2 ENTEROBACTER SAKAZAKII

4.2.1 General evaluation of the national situation

4.2.2 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
Infant formula - dried - at retail - Surveillance	OFML	single	25g	40	0	
Infant formula - dried - intended for infants below 6 months - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	310	0	

Footnote:

The sampling program was Surveillance. Samples from Processing source 4, DSL: batches comprised of 1-20 samples of 25g weight.

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 Staphylococcal enterotoxins
Cheeses made from cows' milk - unspecified - at retail - Surveillance	OFML	single	25g	1	1
Cheeses made from cows' milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	6	0
Cheeses, made from unspecified milk or other animal milk - unspecified - made from raw or low heat-treated milk - at processing plant - Surveillance (Processing source 4)	DSL	batch	Various	42	0
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	2	2
Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at retail - Surveillance	OFML	single	25g	1	1
Meat from pig - meat products - at retail - Surveillance	OFML	single	25g	1	1
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	OFML	single	25g	1	1
Other processed food products and prepared dishes - sandwiches - with meat - at retail - Surveillance	OFML	single	25g	2	2

Table Staphylococcal enterotoxins in food

Footnote:

The sampling program for all samples was Surveillance. Samples from OFML were sent to PHL Colindale (UK) for testing. Of these, 4 were following reports of Food Poisoning/Complaints and 4 were routine investigations, 3 of which had a high Coagulase-positive S.aureus count.
Samples from Processing source 4, DSL: batches comprised of 1-20 samples each of 25g weight.

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.

Foodborne Outbreaks: summarized data

	Total number of outbreaks	Outbreaks	Human cases	Hospitalized	Deaths	Number of verified outbreaks
Bacillus	0	0	unknown	unknown	unknown	0
Campylobacter	1	1	2	0	0	0
Clostridium	0	0	unknown	unknown	unknown	0
Escherichia coli, pathogenic	10	7	21	7	0	3
Foodborne viruses	0	0	unknown	unknown	unknown	0
Listeria	0	0	unknown	unknown	unknown	0
Other agents	2	2	4	2	0	0
Parasites	3	3	7	4	0	0
Salmonella	10	8	36	9	0	2
Staphylococcus	0	0	unknown	unknown	unknown	0
Unknown	2	2	43	0	0	0
Yersinia	0	0	unknown	unknown	unknown	0

Verified Foodborne Outbreaks: detailed data**S. Agona**

Value

Code	HPSC-1-7-2008
Subagent Choice	Salmonella; S. Agona
Outbreak type	General
Human cases	11
Hospitalized	3
Deaths	0
Foodstuff implicated	Other or unspecified poultry meat and products thereof
More Foodstuff	foods of pig meat and bovine meat origin
Type of evidence	Laboratory characterization of food and human isolates, Analytical epidemiological evidence, Laboratory detection in human cases, Laboratory detection in implicated food
Setting	Other setting
Place of origin of problem	Processing plant
Origin of foodstuff	Domestic
Contributory factors	Cross-contamination
Outbreaks	1
Comment	These data only include the cases reported in Ireland. This was an international outbreak with 163 cases in total. http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=18956 http://www.hpsc.ie/hpsc/EPI-Insight/Volume92008/File,3130,en.pdf

S. Typhimurium

Value

Code	HPSC-1-4-2008
Subagent Choice	
Outbreak type	General
Human cases	4
Hospitalized	1
Deaths	0
Foodstuff implicated	Eggs and egg products
More Foodstuff	
Type of evidence	Analytical epidemiological evidence, Laboratory detection in human cases
Setting	Household
Place of origin of problem	Unknown
Origin of foodstuff	Unknown
Contributory factors	Unknown
Outbreaks	1
Comment	S Typhimurium U320. Part of larger outbreak in United Kingdom

Verified Foodborne Outbreaks: detailed data**VTEC O157**

Value

Code	SHB-C-2008-08-02
Subagent Choice	
Outbreak type	Household
Human cases	5
Hospitalized	3
Deaths	0
Foodstuff implicated	Tap water, including well water
More Foodstuff	family private well
Type of evidence	Laboratory characterization of food and human isolates, Laboratory detection in implicated food, Laboratory detection in human cases
Setting	Household
Place of origin of problem	Water source
Origin of foodstuff	Domestic
Contributory factors	Water treatment failure
Outbreaks	1
Comment	

VTEC O157

Value

Code	MHB-3-8-2008
Subagent Choice	
Outbreak type	Household
Human cases	5
Hospitalized	0
Deaths	0
Foodstuff implicated	Tap water, including well water
More Foodstuff	family private well
Type of evidence	Laboratory characterization of food and human isolates, Laboratory detection in human cases, Laboratory detection in implicated food
Setting	Household
Place of origin of problem	Water source
Origin of foodstuff	Domestic
Contributory factors	Water treatment failure
Outbreaks	1
Comment	

VTEC O157

Value

Code	SHB-c-2008-05-04
Subagent Choice	
Outbreak type	Household
Human cases	4
Hospitalized	2
Deaths	0
Foodstuff implicated	Tap water, including well water
More Foodstuff	family private well
Type of evidence	Laboratory detection in implicated food, Laboratory detection in human cases
Setting	Household
Place of origin of problem	Water source
Origin of foodstuff	Domestic
Contributory factors	Water treatment failure
Outbreaks	1
Comment	