

## FRANCE

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

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

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

## IN 2012

## INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: France

Reporting Year: 2012

## 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 France during the year 2012 .

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

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

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

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

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

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## 1. ANIMAL POPULATIONS

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

Table Susceptible animal populations

\* Only if different than current reporting year

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Cattle (bovine animals)	meat production animals <sup>1)</sup>					4099789	2010	121200	2010
	dairy cows and heifers <sup>2)</sup>			2281751		3715795	2010	82427	2010
	calves (under 1 year) <sup>3)</sup>			1491163		4982870	2007	158656	2007
	- unspecified <sup>4)</sup>	224514		4940539		24095402		192843	2010
	unspecified <sup>5)</sup>			1167625					
Deer	farmed <sup>6)</sup>			3166					
Ducks	meat production flocks <sup>7)</sup>			41060100		12957000	2011	16201	2007
	- unspecified <sup>8)</sup>			77832304		26786000	2011	21883	2007
	foie gras production flocks <sup>9)</sup>			36772200		13829000	2011	6703	2007
Gallus gallus (fowl)	parent breeding flocks for egg production line <sup>10)</sup>					45793596	2010	73518	2010
	laying hens <sup>11)</sup>			345339008		76847528	2010	75776	2010
	broilers <sup>12)</sup>	54085		771354180		141311584	2010	38400	2010
	- unspecified <sup>13)</sup>			805888130		275782944	2007	134581	2007

Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Gallus gallus (fowl)	elite breeding flocks for broiler production line - adult <sup>14)</sup>	18							
	elite breeding flocks for broiler production line - during rearing period <sup>15)</sup>	61							
	elite breeding flocks for egg production line - adult <sup>16)</sup>	1							
	elite breeding flocks for egg production line - during rearing period <sup>17)</sup>	1							
	grandparent breeding flocks for broiler production line - adult <sup>18)</sup>	262							
	grandparent breeding flocks for broiler production line - during rearing period <sup>19)</sup>	243							
	grandparent breeding flocks for egg production line - adult <sup>20)</sup>	41							
	grandparent breeding flocks for egg production line - during rearing period <sup>21)</sup>	6							
	laying hens - adult <sup>22)</sup>	4026							
	laying hens - during rearing period - flocks under control programme <sup>23)</sup>	3156							
	parent breeding flocks for broiler production line - adult <sup>24)</sup>	1856							
	parent breeding flocks for broiler production line - during rearing period <sup>25)</sup>	1290							
	parent breeding flocks for egg production line - adult <sup>26)</sup>	160							



Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Gallus gallus (fowl)	parent breeding flocks for egg production line - during rearing period <sup>27)</sup>	96							
Geese	- unspecified <sup>28)</sup>			250000		571000	2011	7915	2007
Goats	milk goats <sup>29)</sup>			148723		977016	2010	14336	2010
	- unspecified <sup>30)</sup>	24781		819113		1039857		15093	2010
Pigs	fattening pigs <sup>31)</sup>			23464400					
	breeding animals - unspecified - sows and gilts <sup>32)</sup>					1114920	2010	7898	2010
	- unspecified <sup>33)</sup>			24122112		13818410	2010	22288	2010
	unspecified <sup>34)</sup>			657712		4277901	2010	8377	2010
Sheep	meat production animals <sup>35)</sup>					4142872	2010	49918	2010
	milk ewes <sup>36)</sup>			560211		1387190	2010	5458	2010
	- unspecified <sup>37)</sup>	89250		4356329		5708141		34586	2007
Solipeds, domestic	horses <sup>38)</sup>			18529		632154	2011		
Turkeys	meat production flocks <sup>39)</sup>	10479							
	- unspecified <sup>40)</sup>			50290800		23743000	2011	8016	2007

Table Susceptible animal populations

Animal species	Category of animals	Number of herds or flocks		Number of slaughtered animals		Livestock numbers (live animals)		Number of holdings	
		Data	Year*	Data	Year*	Data	Year*	Data	Year*
Turkeys	grandparent breeding flocks - adult <sup>41)</sup>	51							
	grandparent breeding flocks - during rearing period <sup>42)</sup>	34							
	parent breeding flocks - adult <sup>43)</sup>	912							
	parent breeding flocks - during rearing period <sup>44)</sup>	520							
Wild boars	farmed <sup>45)</sup>			672					
Ratites (ostrich, emu, nandu)	farmed <sup>46)</sup>			200					

## Comments:

- <sup>1)</sup> Source : Agreste
- <sup>2)</sup> including sucker cows, Source : Agreste
- <sup>3)</sup> Source : Agreste
- <sup>4)</sup> Source : Agreste for slaughtered animals and holdings  
Source : BDNI for flocks and animals
- <sup>5)</sup> mixed production animals and mixed herds, Source : Agreste
- <sup>6)</sup> Source : Agreste
- <sup>7)</sup> Source : Agreste
- <sup>8)</sup> Source : Agreste
- <sup>9)</sup> Source : Agreste

## Table Susceptible animal populations

### Comments:

- <sup>10)</sup> Source : Agreste
- <sup>11)</sup> Source : Agreste
- <sup>12)</sup> Source : Agreste for slaughtered animals, animals and holdings Source : SIGAL for flocks
- <sup>13)</sup> Source : Agreste
- <sup>14)</sup> Source : SIGAL
- <sup>15)</sup> Source : SIGAL
- <sup>16)</sup> Source : SIGAL
- <sup>17)</sup> Source : SIGAL
- <sup>18)</sup> Source : SIGAL
- <sup>19)</sup> Source : SIGAL
- <sup>20)</sup> Source : SIGAL
- <sup>21)</sup> Source : SIGAL
- <sup>22)</sup> Source : SIGAL
- <sup>23)</sup> Source : SIGAL
- <sup>24)</sup> Source : SIGAL
- <sup>25)</sup> Source : SIGAL
- <sup>26)</sup> Source : SIGAL
- <sup>27)</sup> Source : SIGAL
- <sup>28)</sup> Source : Agreste
- <sup>29)</sup> including ram, Source : Agreste
- <sup>30)</sup> Source : Agreste for slaughtered animals and holdings  
Source : BDNI for flocks and animals
- <sup>31)</sup> Source : Agreste

## Table Susceptible animal populations

### Comments:

- <sup>32)</sup> Source : Agreste
- <sup>33)</sup> Source : Agreste
- <sup>34)</sup> Source : Agreste
- <sup>35)</sup> Source : Agreste
- <sup>36)</sup> Source : BDNI for flocks and animals  
Source : Agreste for holdings
- <sup>37)</sup> Source : Agreste for slaughtered animals and holdings  
Source : BDNI for animals and flocks
- <sup>38)</sup> Source : Agreste
- <sup>39)</sup> Source : SIGAL
- <sup>40)</sup> Source : Agreste
- <sup>41)</sup> Source : SIGAL
- <sup>42)</sup> Source : SIGAL
- <sup>43)</sup> Source : SIGAL
- <sup>44)</sup> Source : SIGAL
- <sup>45)</sup> Source : Agreste
- <sup>46)</sup> Source : Agreste

## 2. INFORMATION ON SPECIFIC ZONNOSES AND ZOONOTIC AGENTS

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

## 2.1 SALMONELLOSIS

### 2.1.1 General evaluation of the national situation

### 2.1.2 Salmonella in foodstuffs

Table Salmonella in poultry meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample > meat	Unknown	Single	25 g	32	1		
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample > meat	Unknown	Single	25 g	3	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified									
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance											
Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance											



Table Salmonella in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - ice-cream - made from raw or low heat-treated milk - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	283	0		
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Unknown	Single	25 g	28	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified									
Dairy products (excluding cheeses) - ice-cream - made from raw or low heat-treated milk - at retail - Surveillance											
Dairy products (excluding cheeses) - dairy desserts - at retail - Surveillance											



Table Salmonella in red meat and products thereof

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from pig - fresh - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	25 g	334	7	0	1
Meat from pig - minced meat - intended to be eaten cooked - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	10 g	165	9	1	2
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	2438	2		
Meat from bovine animals - fresh - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	25 g	247	2	0	0
Meat from bovine animals - minced meat - intended to be eaten raw - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	25 g	16	0		
Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	10 g	231	1	1	
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Unknown	Single	25 g	46	2		
Meat from pig - meat preparation - intended to be eaten cooked - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample > meat	Unknown	Single	25 g	183	4		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified									
Meat from pig - fresh - at retail - Surveillance	1	5									

Table Salmonella in red meat and products thereof

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified
Meat from pig - minced meat - intended to be eaten cooked - at retail - Surveillance	1	5
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance		
Meat from bovine animals - fresh - at retail - Surveillance	1	1
Meat from bovine animals - minced meat - intended to be eaten raw - at retail - Surveillance		
Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance		
Meat from bovine animals - meat products - raw but intended to be eaten cooked - at retail - Surveillance		
Meat from pig - meat preparation - intended to be eaten cooked - at retail - Surveillance		

Footnote:

"Meat" includes fresh meat other than "minced meat" and "meat preparation". On row 15, the 2438 units were also tested for *Listeria monocytogenes*.

## 2.1.3 Salmonella in animals

Table Salmonella in breeding flocks of Gallus gallus

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - breeding flocks for egg production line - adult - at farm - Control and eradication programmes	160		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	160	0	
Gallus gallus (fowl) - breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes	96		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	96	0	
Gallus gallus (fowl) - elite breeding flocks for broiler production line - adult - at farm - Control and eradication programmes	18		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	18	0	
Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes	61		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	61	1	
Gallus gallus (fowl) - elite breeding flocks for egg production line - adult - at farm - Control and eradication programmes	1		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	1	0	
Gallus gallus (fowl) - elite breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes	1		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	1	0	
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes	262		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	262	2	
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes	243		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	243	1	

Table Salmonella in breeding flocks of Gallus gallus

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes	41		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	41	0	
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes	6		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	6	0	
Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes	1856		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	1856	1	
Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes	1290		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	1290	6	
	S. Hadar	S. Infantis	S. Typhimurium	S. Virchow	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Typhimurium, monophasic				
Gallus gallus (fowl) - breeding flocks for egg production line - adult - at farm - Control and eradication programmes											
Gallus gallus (fowl) - breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes											
Gallus gallus (fowl) - elite breeding flocks for broiler production line - adult - at farm - Control and eradication programmes											

Table Salmonella in breeding flocks of Gallus gallus

	S. Hadar	S. Infantis	S. Typhimurium	S. Virchow	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Typhimurium, monophasic
Gallus gallus (fowl) - elite breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes			1				
Gallus gallus (fowl) - elite breeding flocks for egg production line - adult - at farm - Control and eradication programmes							
Gallus gallus (fowl) - elite breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes							
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes			2				
Gallus gallus (fowl) - grandparent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes							1
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - adult - at farm - Control and eradication programmes							
Gallus gallus (fowl) - grandparent breeding flocks for egg production line - during rearing period - at farm - Control and eradication programmes							
Gallus gallus (fowl) - parent breeding flocks for broiler production line - adult - at farm - Control and eradication programmes							1
Gallus gallus (fowl) - parent breeding flocks for broiler production line - during rearing period - at farm - Control and eradication programmes			4				2

Table Salmonella in breeding flocks of Gallus gallus

Table Salmonella in other poultry

	No of flocks under control programme	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Target Verification	Sampling unit	Units tested	Total units positive for Salmonella	S. Enteritidis
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes	4026		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	4026	57	26
Gallus gallus (fowl) - laying hens - during rearing period - flocks under control programme - at farm - Control and eradication programmes	3156		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	3156	3	3
Other poultry - at farm - Control and eradication programmes	64563		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	64563	321	93
Turkeys - grandparent breeding flocks - adult - at farm - Control and eradication programmes	51		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	51	0	
Turkeys - grandparent breeding flocks - during rearing period - at farm - Control and eradication programmes	34		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	34	0	
Turkeys - parent breeding flocks - adult - at farm - Control and eradication programmes	912		Census	Official and industry sampling	environmental sample	Domestic	yes	herd/flock	912	5	1
Turkeys - parent breeding flocks - during rearing period - at farm - Control and eradication programmes	520		Census	Official and industry sampling	environmental sample	Domestic	no	herd/flock	520	0	
	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Typhimurium, monophasic							
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes	32			3							

Table Salmonella in other poultry

	S. Typhimurium	S. 1,4,[5],12:i:-	Salmonella spp., unspecified	S. Typhimurium, monophasic
Gallus gallus (fowl) - laying hens - during rearing period - flocks under control programme - at farm - Control and eradication programmes				
Other poultry - at farm - Control and eradication programmes	191			37
Turkeys - grandparent breeding flocks - adult - at farm - Control and eradication programmes				
Turkeys - grandparent breeding flocks - during rearing period - at farm - Control and eradication programmes				
Turkeys - parent breeding flocks - adult - at farm - Control and eradication programmes	2			2
Turkeys - parent breeding flocks - during rearing period - at farm - Control and eradication programmes				



## 2.1.4 Salmonella in feedingstuffs

Table Salmonella in compound feedingstuffs

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Compound feedingstuffs for pigs - final product - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample	Domestic	Single	100 g	2	0		
Compound feedingstuffs for poultry (non specified) - final product - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample	Domestic	Single	100 g	46	0		
Compound feedingstuffs for poultry - breeders - final product - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample	Domestic	Single	100 g	20	0		
Compound feedingstuffs for poultry - laying hens - final product - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample	Domestic	Single	100 g	58	0		
Compound feedingstuffs for poultry - broilers - final product - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample	Domestic	Single	100 g	74	0		
Compound feedingstuffs for horses - final product - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	8	0		
Compound feedingstuffs for pigs - final product - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	86	2		1
Compound feedingstuffs for poultry (non specified) - final product - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	83	1		
Compound feedingstuffs for rabbits - final product - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	7	0		
Compound feedingstuffs, not specified - final product - at feed mill - Surveillance (petfood)	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	3	0		

Table Salmonella in compound feedingstuffs

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified
Compound feedingstuffs for pigs - final product - at feed mill - Surveillance		
Compound feedingstuffs for poultry (non specified) - final product - at feed mill - Surveillance		
Compound feedingstuffs for poultry - breeders - final product - at feed mill - Surveillance		
Compound feedingstuffs for poultry - laying hens - final product - at feed mill - Surveillance		
Compound feedingstuffs for poultry - broilers - final product - at feed mill - Surveillance		
Compound feedingstuffs for horses - final product - at feed mill - Surveillance		
Compound feedingstuffs for pigs - final product - at feed mill - Surveillance		1
Compound feedingstuffs for poultry (non specified) - final product - at feed mill - Surveillance		1
Compound feedingstuffs for rabbits - final product - at feed mill - Surveillance		
Compound feedingstuffs, not specified - final product - at feed mill - Surveillance (petfood)		

Footnote:

Analysis method : Rapid salmonella (BRD 07/11-12/05) valiated according to ISO 16140:2003 Standard.

Table Salmonella in feed material of animal origin

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of land animal origin - dairy products - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	1	0		
Feed material of land animal origin - animal fat - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	3	0		
Feed material of marine animal origin - fish meal - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	26	1		
Feed material of marine animal origin - fish oil - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	5	0		

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified
Feed material of land animal origin - dairy products - at feed mill - Surveillance		
Feed material of land animal origin - animal fat - at feed mill - Surveillance		0
Feed material of marine animal origin - fish meal - at feed mill - Surveillance		1
Feed material of marine animal origin - fish oil - at feed mill - Surveillance		

Footnote:

Analysis method : Rapid salmonella (BRD 07/11-12/05) validated according to ISO 16140:2003 Standard.

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	3	0		
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	22	0		
Feed material of cereal grain origin - other cereal grain derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	2	0		
Feed material of cereal grain origin - maize derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	25	0		
Feed material of oil seed or fruit origin - rape seed derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	39	0		
Feed material of oil seed or fruit origin - palm kernel derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	4	0		
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	60	0		
Feed material of oil seed or fruit origin - sunflower seed derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	18	0		
Feed material of oil seed or fruit origin - linseed derived - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	4	2		
Other feed material - tubers, roots and similar products - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	2	0		
Other feed material - other seeds and fruits - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	1	0		
Other feed material - forages and roughages - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	6	0		

Table Salmonella in other feed matter

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance	CCA - DGAL	Objective sampling	Official sampling	feed sample	Domestic	Single	100 g	1	1		
Other feed material - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	2	0		
Other feed material - yeast - at feed mill - Surveillance	CCA - DGCCRF	Selective sampling	Official sampling	feed sample		Single	100 g	4	0		
Other feed material - yeast - at feed mill - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	feed sample		Single	100 g	2	0		
	S. 1,4,[5],12:i:-	Salmonella spp., unspecified									
Feed material of cereal grain origin - barley derived - at feed mill - Surveillance											
Feed material of cereal grain origin - wheat derived - at feed mill - Surveillance											
Feed material of cereal grain origin - other cereal grain derived - at feed mill - Surveillance											
Feed material of cereal grain origin - maize derived - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - rape seed derived - at feed mill - Surveillance											
Feed material of oil seed or fruit origin - palm kernel derived - at feed mill - Surveillance											

Table Salmonella in other feed matter

	S. 1,4,[5],12:i:-	Salmonella spp., unspecified
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance		
Feed material of oil seed or fruit origin - sunflower seed derived - at feed mill - Surveillance		
Feed material of oil seed or fruit origin - linseed derived - at feed mill - Surveillance		2
Other feed material - tubers, roots and similar products - at feed mill - Surveillance		
Other feed material - other seeds and fruits - at feed mill - Surveillance		
Other feed material - forages and roughages - at feed mill - Surveillance		
Feed material of oil seed or fruit origin - soya (bean) derived - at feed mill - Surveillance		1
Other feed material - at feed mill - Surveillance		
Other feed material - yeast - at feed mill - Surveillance		
Other feed material - yeast - at feed mill - Surveillance		

Footnote:

Analysis method : Rapid salmonella (BRD 07/11-12/05) validated according to ISO 16140:2003 Standard.

## 2.2 CAMPYLOBACTERIOSIS

### 2.2.1 General evaluation of the national situation

### 2.2.2 Campylobacter in foodstuffs

Table Campylobacter in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Campylobacter	C. coli	C. jejuni
Meat from pig - fresh - at retail	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	1 g	334	0		
Meat from bovine animals - fresh - at retail	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	1 g	247	0		
Meat from bovine animals - minced meat - intended to be eaten raw - at retail	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	1 g	16	0		
Meat from bovine animals - minced meat - intended to be eaten cooked - chilled - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	1 g	231	0		
Meat from pig - minced meat - intended to be eaten cooked - chilled - at retail - Surveillance	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	Single	1 g	165	0		
	C. lari	C. upsaliensis	Thermophilic Campylobacter spp., unspecified								
Meat from pig - fresh - at retail											
Meat from bovine animals - fresh - at retail											

Table Campylobacter in other food

	C. lari	C. upsaliensis	Thermophilic Campylobact er spp., unspecified
Meat from bovine animals - minced meat - intended to be eaten raw - at retail			
Meat from bovine animals - minced meat - intended to be eaten cooked - chilled - at retail - Surveillance			
Meat from pig - minced meat - intended to be eaten cooked - chilled - at retail - Surveillance			

Footnote:

"Meat" includes fresh meat other than "minced meat" and "meat preparation"



## 2.2.3 Antimicrobial resistance in Campylobacter isolates

Table Antimicrobial susceptibility testing of Campylobacter in Pigs

Campylobacter	C. coli		C. jejuni		Campylobacter spp., unspecified	
	Isolates out of a monitoring program (yes/no)		yes			
	Number of isolates available in the laboratory		96		1	
	Antimicrobials:		N	n	N	n
Aminoglycosides - Gentamicin	96	0	1	0		
Fluoroquinolones - Ciprofloxacin	96	39	1	1		
Macrolides - Erythromycin	96	35	1	0		
Quinolones - Nalidixic acid	96	38	1	1		
Tetracyclines - Tetracycline			1	1		
Fully sensitive	96	3	1	0		
Resistant to 1 antimicrobial	96	36	1	0		
Resistant to 2 antimicrobials	96	45	1	1		
Resistant to 3 antimicrobials	96	12	1	0		

Footnote:

number of multiresistant isolates calculated for gentamicin, ciprofloxacin, erythromycin and tetracycline (when available for tetracycline)

Table Antimicrobial susceptibility testing of Campylobacter in Gallus gallus (fowl)

Campylobacter  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory  Antimicrobials:	C. coli		C. jejuni		Campylobacter spp., unspecified	
	yes		yes			
	78		49			
	N	n	N	n	N	n
Aminoglycosides - Gentamicin	78	0	49	0		
Fluoroquinolones - Ciprofloxacin	78	51	49	24		
Macrolides - Erythromycin	78	12	49	2		
Quinolones - Nalidixic acid	78	49	49	23		
Tetracyclines - Tetracycline	78	72	49	24		
Fully sensitive	78	46	49	17		
Resistant to 1 antimicrobial	78	8	49	14		
Resistant to 2 antimicrobials	78	18	49	18		
Resistant to 3 antimicrobials	78	4	49	0		
Resistant to 4 antimicrobials	78	2				

Footnote:  
number of multiresistant strains isolated calculated for gentamycin, ciprofloxacin, erythromycin and tetracycline

Table Antimicrobial susceptibility testing of C. coli in Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]

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

C. coli	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	78																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	78	0								2	4	67	5														
Fluoroquinolones - Ciprofloxacin	1	78	51							2	14	10	1			1	50											
Quinolones - Nalidixic acid	32	78	49												1	12	13	1	2	26	23							
Tetracyclines - Tetracycline	2	78	72									4		1	1			1	71									
Macrolides - Erythromycin	16	78	12										38	20	7			1		12								

C. coli	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	78	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin		
Fluoroquinolones - Ciprofloxacin		
Quinolones - Nalidixic acid		
Tetracyclines - Tetracycline		
Macrolides - Erythromycin		

Table Antimicrobial susceptibility testing of C. coli in Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]

Table Antimicrobial susceptibility testing of C. coli in Pigs - fattening pigs - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]

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

C. coli	Pigs - fattening pigs - at slaughterhouse - Monitoring - EFSA specifications																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	96																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	96	0										10	80	6													
Fluoroquinolones - Ciprofloxacin	1	96	39							7	29	19	2		1	2	36											
Quinolones - Nalidixic acid	32	96	38													34	22	1	1	18	20							
Tetracyclines - Tetracycline	2	96	88									6	1		1	4	4	13	67									
Macrolides - Erythromycin	16	96	35										25	28	7		1			35								

C. coli	Pigs - fattening pigs - at slaughterhouse - Monitoring - EFSA specifications	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Aminoglycosides - Gentamicin		
Fluoroquinolones - Ciprofloxacin		
Quinolones - Nalidixic acid		
Tetracyclines - Tetracycline		
Macrolides - Erythromycin		

Table Antimicrobial susceptibility testing of C. coli in Pigs - fattening pigs - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]

Table Antimicrobial susceptibility testing of C. jejuni - C. jejuni subsp. jejuni in Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]

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

C. jejuni subsp. jejuni	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications																										
	Isolates out of a monitoring program (yes/no)																										
	Number of isolates available in the laboratory																										
	49																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	1	49	0								6	28	14	1													
Aminoglycosides - Streptomycin	2	49	2											39	8			1	1								
Fluoroquinolones - Ciprofloxacin	1	49	24							3	16	3	3			1	23										
Quinolones - Nalidixic acid	16	49	23												1	19	5	1		5	18						
Tetracyclines - Tetracycline	2	49	24									19	4	1	1				24								

C. jejuni subsp. jejuni	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		
Fluoroquinolones - Ciprofloxacin		
Quinolones - Nalidixic acid		
Tetracyclines - Tetracycline		

Table Antimicrobial susceptibility testing of *C. jejuni* - *C. jejuni* subsp. *jejuni* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - quantitative data [Dilution method]



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

Test Method Used		Standard methods used for testing		
Broth dilution		NCCLS/CLSI		

  

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	2	
	Streptomycin	NON-EFSA		
Fluoroquinolones	Ciprofloxacin	EFSA	1	
Macrolides	Erythromycin	EFSA	16	
Quinolones	Nalidixic acid		32	
Tetracyclines	Tetracycline	EFSA	2	

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

Test Method Used		Standard methods used for testing		
Broth dilution		NCCLS/CLSI		

  

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

## 2.3 LISTERIOSIS

### 2.3.1 General evaluation of the national situation

### 2.3.2 Listeria in foodstuffs

Table Listeria monocytogenes in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogenes	Units tested with detection method	Listeria monocytogenes presence in x g
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	129	2	129	2
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	CCA-DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	277	3	277	3
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	142	0	142	0
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	CCA-DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	984	3	901	3
Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	54	5	54	5
Cheeses made from cows' milk - hard - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	54	0	54	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	21	1	21	1
Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	15	0	15	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	11	0	11	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	4	0	0	0
Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	4	0	4	0
Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	15	0	15	0
Cheeses made from sheep's milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	3	0	3	0
Cheeses made from sheep's milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	1	0	0	0
Cheeses made from sheep's milk - hard - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	2	0	2	0

Table *Listeria monocytogenes* in milk and dairy products

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Cheeses made from cows' milk - fresh - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	47	0	47	0
Cheeses made from cows' milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	9	0	9	0
Cheeses made from cows' milk - hard - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	8	0	8	0
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	4	0	4	0
Cheeses made from cows' milk - unspecified - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	1	0	1	0
Cheeses made from goats' milk - fresh - made from pasteurised milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	3	0	3	0
Cheeses made from goats' milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	1	0	1	0
Cheeses made from sheep's milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	1	0	1	0
Cheeses made from sheep's milk - hard - at processing plant - Surveillance	CCA - DGAL	Objective sampling	Official sampling	food sample	Domestic	Single	25 g	1	1	1	1

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance	2	1	1
Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	277	2	1
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	984	3	0
Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - at processing plant - Surveillance	54	4	1
Cheeses made from cows' milk - hard - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance			
Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	15	0	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	4	0	0
Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - at processing plant - Surveillance			
Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - at retail - Surveillance	15	0	0
Cheeses made from sheep's milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from sheep's milk - soft and semi-soft - made from pasteurised milk - at retail - Surveillance	1	0	0
Cheeses made from sheep's milk - hard - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from cows' milk - fresh - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from cows' milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance			
Cheeses made from cows' milk - hard - at processing plant - Surveillance			
Cheeses made from cows' milk - soft and semi-soft - at processing plant - Surveillance			

Table *Listeria monocytogenes* in milk and dairy products

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses made from cows' milk - unspecified - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from goats' milk - fresh - made from pasteurised milk - at processing plant - Surveillance			
Cheeses made from goats' milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance			
Cheeses made from sheep's milk - fresh - made from raw or low heat-treated milk - at processing plant - Surveillance			
Cheeses made from sheep's milk - hard - at processing plant - Surveillance			



Table *Listeria monocytogenes* in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for <i>L. monocytogenes</i>	Units tested with detection method	<i>Listeria monocytogenes</i> presence in x g
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	3678	30	1542	30
Fish - smoked - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Unknown	Single	25 g	934	24	508	24
Crustaceans - unspecified - cooked - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Unknown	Single	25 g	39	3	39	3
Vegetables - pre-cut - ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	4609	6	4	6
Juice - vegetable juice - pasteurised - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	222	0	0	0
Meat from duck - meat products - cooked, ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Single	25 g	405	2	103	2

	Units tested with enumeration method	> detection limit but ≤ 100 cfu/g	<i>L. monocytogenes</i> > 100 cfu/g
Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance	3678	28	2
Fish - smoked - at retail - Surveillance	934	24	0
Crustaceans - unspecified - cooked - at retail - Surveillance	39	2	1
Vegetables - pre-cut - ready-to-eat - at retail - Surveillance	4609	6	0

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Juice - vegetable juice - pasteurised - at retail - Surveillance	222	0	0
Meat from duck - meat products - cooked, ready-to- eat - at retail - Surveillance	405	1	1

## 2.4 E. COLI INFECTIONS

### 2.4.1 General evaluation of the national situation

### 2.4.2 Escherichia coli, pathogenic in foodstuffs

Table VT E. coli in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E. coli (VTEC) - VTEC O157
Meat from bovine animals - fresh - at processing plant - Surveillance <sup>1)</sup>	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Domestic	ISO/PRF TS 13136	Single	25 g	1923	7	3
Vegetables - pre-cut - ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Real-Time PCR	Single	25 g	16	0	0
Seeds, sprouted - ready-to-eat - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Domestic	Real-Time PCR	Single	25 g	387	0	0
Fruits and vegetables - non-pre-cut - at retail - Surveillance	CCA - DGCCRF	Suspect sampling	Official sampling	food sample	Unknown	Real-Time PCR	Single	25 g	162	0	0

	Verotoxigenic E. coli (VTEC) - VTEC non-O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Meat from bovine animals - fresh - at processing plant - Surveillance <sup>1)</sup>	4	0
Vegetables - pre-cut - ready-to-eat - at retail - Surveillance	0	0

Table VT E. coli in food

	Verotoxigenic E. coli (VTEC) - VTEC non- O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Seeds, sprouted - ready-to-eat - at retail - Surveillance	0	0
Fruits and vegetables - non-pre-cut - at retail - Surveillance	0	0

## Comments:

- <sup>1)</sup> In addition to the screening of the 5 VTEC serogroups listed in the ISO/PR TS 13136, screening for the presence of O45 VTEC and O121 VTEC was performed by PCR according to the MLG-5B- Novembre 2011 method (FSIS). Strain isolation was only performed if vtx genes and eae gene and one of the 7 markers for the presence of O157, O26, O103, O111, O145, O45 and O121 VTEC were detected by PCR. No VTEC isolation was performed in other cases. The VTEC serogroups detected in fresh bovine meat were O103:H2 eae positive and stx1 positive (2), O26:H11 eae positive and stx2 positive (2), O157:H7 eae positive, stx1 and stx2 positive (2), O157:H7 eae positive and stx2 positive (1).

## Footnote:

On row 25 the samples are not sprouted seeds .

## 2.5 TUBERCULOSIS, MYCOBACTERIAL DISEASES

### 2.5.1 General evaluation of the national situation

### 2.5.2 Tuberculosis, mycobacterial diseases in humans

Table Mycobacterium in humans - Species/serotype distribution

Species/serotype Distribution	Cases	Cases Inc.	Autochthon cases	Autochthon Inc.	Imported cases	Imported Inc.
Mycobacterium	385	0	0	0	0	0
M. bovis	12					
M. tuberculosis	373					

Footnote:

The national reference centre for mycobacteria (CNR-MyRMA) coordinates a laboratory network and collect information on patients with tuberculosis bacteriologically confirmed (positive culture). Information on M. bovis is collected as part of this network. In 2011, among 385 strains of complex M. Tuberculosis mycobacteria received at the CNR-MyRMA, 12 were M. bovis.

## 2.5.3 Mycobacterium in animals

Table Tuberculosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Mycobacterium	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Pigs	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	6	5	0	0	0
Badgers	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	1598	85	33	0	40
Cats - pet animals - veterinary clinics - Clinical investigations	NRL	Suspect sampling	Not applicable	animal sample > organ/tissue		Animal	4	2	0	0	0
Cattle (bovine animals) - at slaughterhouse - Control and eradication programmes	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	489	389	280	0	71
Deer - wild - fallow deer - from hunting - Surveillance	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	5	5	0	0	3
Deer - wild - red deer - from hunting - Surveillance	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	301	27	1	0	21
Deer - wild - roe deer - from hunting - Surveillance	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	152	1	1	0	0
Dogs - pet animals - veterinary clinics - Clinical investigations	NRL	Suspect sampling	Not applicable	animal sample > organ/tissue		Animal	9	1	0	1	0
Elephants - zoo animals - at zoo - Clinical investigations	NRL	Suspect sampling	Not applicable	animal sample > organ/tissue		Animal	1	1	0	1	0
Foxes - wild - from hunting - Surveillance	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	2	2	0	0	0

## Table Tuberculosis in other animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Mycobacterium	M. bovis	M. tuberculosis	Mycobacterium spp., unspecified
Monkeys - veterinary clinics - Clinical investigations	NRL	Suspect sampling	Not applicable	animal sample > organ/tissue		Animal	1	0	0	0	0
Sea lion - zoo animals - at zoo - Clinical investigations	NRL	Suspect sampling	Not applicable	animal sample > nasal swab		Animal	8	2	0	0	2
Solipeds, domestic - horses - veterinary clinics - Clinical investigations	NRL	Suspect sampling	Official sampling	animal sample > nasal swab		Animal	3	1	0	0	0
Wild boars - wild - from hunting - Surveillance	NRL	Suspect sampling	Official sampling	animal sample > organ/tissue		Animal	1052	186	39	0	106

	M. avium complex	M. caprae	M. microti
Pigs	5	0	0
Badgers	12	0	0
Cats - pet animals - veterinary clinics - Clinical investigations	0	0	2
Cattle (bovine animals) - at slaughterhouse - Control and eradication programmes	38	0	0
Deer - wild - fallow deer - from hunting - Surveillance	2	0	0
Deer - wild - red deer - from hunting - Surveillance	5	0	0

Table Tuberculosis in other animals

	M. avium complex	M. caprae	M. microti
Deer - wild - roe deer - from hunting - Surveillance	0	0	0
Dogs - pet animals - veterinary clinics - Clinical investigations	0	0	0
Elephants - zoo animals - at zoo - Clinical investigations	0	0	0
Foxes - wild - from hunting - Surveillance	2	0	0
Monkeys - veterinary clinics - Clinical investigations	0	0	0
Sea lion - zoo animals - at zoo - Clinical investigations	0	0	0
Solipeds, domestic - horses - veterinary clinics - Clinical investigations	1	0	0
Wild boars - wild - from hunting - Surveillance	41	0	0



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

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing bovine		Officially free herds		Infected herds		Routine tuberculin testing		Number of tuberculin tests carried out before the introduction into the herds (Annex A(I)(2)(c) third indent (1) of Directive 64/432/EEC)	Number of animals with suspicious lesions of tuberculosis examined and submitted to histopathological and bacteriological	Number of animals detected positive in bacteriological examination
	Herds	Animals	Number of herds	%	Number of herds	%	Interval between routine tuberculin tests	Number of animals tested			
France	224514	24095402	224055	99.8	169	.08	others, please specify : cf.	678095	107435	166	18
Total : <sup>1)</sup>	224514	24095402	224055	99.8	169	.08	N.A.	678095	107435	166	18

## Comments:

<sup>1)</sup> N.A.

## Footnote:

56 départements : no routine test

10 départements : annual tests

7 départements : tests every 2 years

8 départements : tests every 3 years

2 départements : tests every 4 years

12 départements : no tests except in certain municipalities placed in annual screening due to the detection of a risk area

## 2.6 BRUCELLOSIS

### 2.6.1 General evaluation of the national situation

### 2.6.2 Brucella in animals

Table Brucellosis in other animals

		Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Brucella	B. abortus	B. melitensis	B. suis
Pigs	1)	veterinary laboratories and NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Herd	3	3			3
Alpine chamois - wild - natural habitat - Clinical investigations (local clinical and serological investigations on hunting bag (around a cattle outbreak of unknown origin))	2)	veterinary laboratories and NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	55	1		1	
Hares - in total - Surveillance (dead wild animals surveillance)	3)	national surveillance network of game death causes (SAGIR) and NRL	Suspect sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	3	3			3
Other ruminants - wild - natural habitat - Clinical investigations (local clinical and serological investigations on a endangered species (alpine ibex : capra ibex) around a cattle outbreak of unknown origin)	4)	veterinary laboratories and NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	24	5		5	
Wild boars - wild - from hunting - Surveillance (local investigations)	5)	veterinary laboratories and NRL	Suspect sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	15	15			15

## Table Brucellosis in other animals

		Brucella spp., unspecified
Pigs	1)	
Alpine chamois - wild - natural habitat - Clinical investigations (local clinical and serological investigations on hunting bag (around a cattle outbreak of unknown origin))	2)	
Hares - in total - Surveillance (dead wild animals surveillance)	3)	
Other ruminants - wild - natural habitat - Clinical investigations (local clinical and serological investigations on a endangered species (alpine ibex : capra ibex) around a cattle outbreak of unknown origin)	4)	
Wild boars - wild - from hunting - Surveillance (local investigations)	5)	

### Comments:

- 1) investigation in pig herds with signs evocative of brucellosis (abortion, orchitis) and confirmed by serology brucella suis biovar 2
- 2) one seropositive animal (brucella melitensis biovar 3)
- 3) analysis by NRL, brucella suis biovar 2 (number of units initially tested unknown)
- 4) 139 animals observed, 3 animals with clinical signs killed, 21 other animals captured for blood sampling, 12 seropositive animals out of 24 tested, 5 culture positive animals for brucella melitensis biovar 3
- 5) analysis by NRL, brucella suis biovar 2 (number of units initially tested unknown)

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

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing		Officially free herds		Infected herds		Surveillance			Investigations of suspect cases				
	Herds	Animals	Number of herds	%	Number of herds	%	Number of herds tested	Number of animals tested	Number of infected herds	Number of animals tested with serological blood tests	Number of animals positive serologically	Number of animals examined microbiologically	Number of animals positive microbiologically	Number of suspended herds
France	114031	6747998	113658	99.67	0	0	47970	1591114	0	18498	369	211	0	105
Total : <sup>1)</sup>	114031	6747998	113658	99.67	0	0	47970	1591114	0	18498	369	211	0	105

Comments:

<sup>1)</sup> N.A.

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

If present, the row "Total -1" refers to analogous data of the previous year.

Region	Total number of existing bovine		Officially free herds		Infected herds		Surveillance						Investigations of suspect cases								
							Serological tests			Examination of bulk milk			Information about			Epidemiological investigation					
	Herds	Animals	Number of herds	%	Number of herds	%	Number of bovine herds tested	Number of animals tested	Number of infected herds	Number of bovine herds tested	Number of animals or pools tested	Number of infected herds	Number of notified abortions whatever cause	Number of isolations of Brucella infection	Number of abortions due to Brucella abortus	Number of animals tested with serological blood tests	Number of suspended herds	Number of positive animals		Number of animals examined microbiologically	Number of animals positive microbiologically
																		Sero logically	BST		
France	224514	24095402	224432	99.96	2	0	127343	1414431	0	66829	61764	0	70853	0	0	3838	233	26	0	55	2
Total : <sup>1)</sup>	224514	24095402	224432	99.96	2	0	127343	1414431	0	66829	61764	0	70853	0	0	3838	233	26	0	55	2

## Comments:

<sup>1)</sup> N.A.

## 2.7 YERSINIOSIS

### 2.7.1 General evaluation of the national situation

## 2.8 TRICHINELLOSIS

### 2.8.1 General evaluation of the national situation

### 2.8.2 Trichinella in animals

Table Trichinella in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified	T. britovi
Pigs - fattening pigs - raised under controlled housing conditions - at slaughterhouse - Surveillance <sup>1)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	81043	0			
Pigs - fattening pigs - not raised under controlled housing conditions - at slaughterhouse - Surveillance <sup>2)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	326085	5			5
Pigs - breeding animals <sup>3)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	343105	0			
Solipeds, domestic - horses - at slaughterhouse - Surveillance <sup>4)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue	Unknown	Animal	18374	0			
Wild boars - farmed - Surveillance <sup>5)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	861	0			

Table Trichinella in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Units tested	Total units positive for Trichinella	T. spiralis	Trichinella spp., unspecified	T. britovi
Wild boars - wild - Surveillance <sup>6)</sup>	veterinary services	Objective sampling	Official sampling	animal sample > organ/tissue		Animal	40746	2			2
Wolves - wild - from hunting	veterinary services	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	1	1			1

## Comments:

- <sup>1)</sup> at slaughterhouse
- <sup>2)</sup> at slaughterhouse (positive units are from freerange pigs from Corsica)
- <sup>3)</sup> at slaughterhouse
- <sup>4)</sup> at slaughterhouse
- <sup>5)</sup> at slaughterhouse
- <sup>6)</sup> from hunting, one positive boar hunted in Alpes-Maritimes (France), the other one in Spain

## 2.9 ECHINOCOCCOSIS

### 2.9.1 General evaluation of the national situation

### 2.9.2 Echinococcus in animals

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at slaughterhouse - Surveillance	CCA/NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	France	848	47	47	
Sheep - at slaughterhouse - Surveillance	CCA/NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	France	247	66	66	
Goats - at slaughterhouse - Surveillance	CCA/NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	France	7	0		
Pigs - at slaughterhouse - Surveillance	CCA/NRL	Suspect sampling	Official sampling	animal sample > organ/tissue	Domestic	Animal	France	96	69	69	
Dogs	NRL	Convenience sampling	Not applicable	animal sample > faeces	Domestic	Animal	Meurthe-et-Moselle	201	0		
Cats	NRL	Convenience sampling	Not applicable	animal sample > faeces	Domestic	Animal	Meurthe-et-Moselle	70	0		
Foxes - Monitoring <sup>1)</sup>	NRL	Convenience sampling	Not applicable	animal sample > faeces	Domestic	Animal	Meurthe-et-Moselle	315	31		31
Badgers - wild <sup>2)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Meurthe-et-Moselle	1	0		



Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cats <sup>3)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Ardennes	20	1		1
Coypu <sup>4)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Moselle	1	0		
Coypu <sup>5)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Bas-Rhin	1	1		1
Foxes - from hunting - Monitoring - active <sup>6)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Meurthe-et-Moselle	93	30		30
Foxes - wild - from hunting <sup>7)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Ille-et-Vilaine	84	5		5
Foxes - wild - from hunting - Monitoring - active <sup>8)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Morbihan	44	0		
Lynx - zoo animal - Monitoring - active	nrl	Convenience sampling	Not applicable	animal sample > faeces	Unknown	Animal	Moselle	18	0		
Other mustelides - wild - Monitoring - active (civet, captive wildlife)	NRL	Convenience sampling	Not applicable	animal sample > faeces	Domestic	Animal	Moselle	6	0		
Raccoons - zoo animal	nrl	Convenience sampling	Not applicable	animal sample > faeces	Unknown	Animal	Moselle	20	0		
Reptiles - zoo animal <sup>9)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Unknown	Animal	Moselle	1	1		1
Voies - wild - unspecified - Monitoring - active <sup>10)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Moselle	37	8		8
Wild boars - wild <sup>11)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Meurthe-et-Moselle	1	0		

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Wild boars - wild <sup>12)</sup>	NRL	Convenience sampling	Not applicable	animal sample > organ/tissue	Domestic	Animal	Pyrénées-Atlantiques	1	0		
Wolves - zoo animal - Monitoring - active	nrl	Convenience sampling	Not applicable	animal sample > faeces	Domestic	Animal	Moselle	111	1		1

	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - Surveillance	
Sheep - at slaughterhouse - Surveillance	
Goats - at slaughterhouse - Surveillance	
Pigs - at slaughterhouse - Surveillance	
Dogs	
Cats	
Foxes - Monitoring <sup>1)</sup>	
Badgers - wild <sup>2)</sup>	
Cats <sup>3)</sup>	
Coypu <sup>4)</sup>	
Coypu <sup>5)</sup>	
Foxes - from hunting - Monitoring - active <sup>6)</sup>	

## Table Echinococcus in animals

	Echinococcus spp., unspecified
Foxes - wild - from hunting 7)	
Foxes - wild - from hunting - Monitoring - active 8)	
Lynx - zoo animal - Monitoring - active	
Other mustelides - wild - Monitoring - active (civet, captive wildlife)	
Raccoons - zoo animal	
Reptiles - zoo animal 9)	
Voles - wild - unspecified - Monitoring - active 10)	
Wild boars - wild 11)	
Wild boars - wild 12)	
Wolves - zoo animal - Monitoring - active	

### Comments:

- 1) field collect
- 2) organ : liver
- 3) road accident, sample:intestine
- 4) organ : liver
- 5) organ : liver
- 6) sample:intestine
- 7) sample:intestine

Table Echinococcus in animals

Comments:

- 8) sample:intestine
- 9) sample : liver
- 10) microtus arvalis, sample : liver
- 11) sample : liver
- 12) sample : liver

Footnote:

E.granulosus sensus lato includes E.granulosus-G1, -G2, -G3, E.canadensis G6-7 or E.ortleppi G5

## 2.10 TOXOPLASMOSIS

### 2.10.1 General evaluation of the national situation

### 2.10.2 Toxoplasma in animals

Table Toxoplasma in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Toxoplasma	T. gondii	Toxoplasma spp., unspecified
Solipeds, domestic - horses - at border control - Monitoring - active	CCA/NRL	Objective sampling	Official sampling	food sample > meat	Imported from outside EU	Modified agglutination test (MAT)	Slaughter batch	269	84	84	

Footnote:

imported from America (Central, North and South)

Mexique 240 samples (76 positives)

Canada 16 samples (4 positives)

Argentine 8 samples (3 positives)

Australie 1 (1 positives)

## 2.11 RABIES

### 2.11.1 General evaluation of the national situation

### 2.11.2 Lyssavirus (rabies) in animals

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Cattle (bovine animals)	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		6	0		
Goats	institut pasteur	Suspect sampling		animal sample > brain		Animal		2	0		
Pigs	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		2	0		
Solipeds, domestic	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		3	0		
Dogs - stray dogs	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		659	0		
Cats - stray cats	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		564	0		
Bats - wild - Monitoring <sup>1)</sup>	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		228	5		4
Foxes - wild - Monitoring	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		43	0		

Table Rabies in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Lyssavirus (rabies)	Rabies virus (RABV)	EBLV-1
Coypu	Anses	Suspect sampling		animal sample > brain		Animal		1	0		
Deer	institut pasteur	Suspect sampling		animal sample > brain		Animal		2	0		
Ferrets	institut pasteur and Anses	Suspect sampling		animal sample > brain		Animal		9	0		
Marten - wild	institut pasteur	Suspect sampling		animal sample > brain		Animal		2	0		
Monkeys	institut pasteur	Suspect sampling		animal sample > brain		Animal		1	0		
Rabbits	institut pasteur	Suspect sampling		animal sample > brain		Animal		1	0		
Reptiles (lemur)	institut pasteur	Suspect sampling		animal sample > brain		Animal		1	0		
Rodents	institut pasteur	Suspect sampling		animal sample > brain		Animal		8	0		
Squirrels	institut pasteur	Suspect sampling		animal sample > brain		Animal		3	0		
Weasel	institut pasteur	Suspect sampling		animal sample > brain		Animal		1	0		
Wild boars	institut pasteur	Suspect sampling		animal sample > brain		Animal		2	0		

## Table Rabies in animals

	EBLV-2	Lyssavirus (unspecified virus)	Bokeloh Bat Lyssavirus
Cattle (bovine animals)			
Goats			
Pigs			
Solipeds, domestic			
Dogs - stray dogs			
Cats - stray cats			
Bats - wild - Monitoring <sup>1)</sup>			1
Foxes - wild - Monitoring			
Coypu			
Deer			
Ferrets			
Marten - wild			
Monkeys			
Rabbits			
Reptiles (lemur)			
Rodents			
Squirrels			
Weasel			
Wild boars			



## Table Rabies in animals

### Comments:

- <sup>1)</sup> one positive bat for EBLV1 was sampled in Cher, one in Morbihan, one in Girone and one in Moselle. The positive bat for bokeloo bat lyssavirus was found in Moselle

### Footnote:

The Bokeloh Bat Lyssavirus (BBLV) was found in *Myotis nattereri* for the first time in north-eastern France in July 2012. This French isolate showed 98.7% nucleotide identity with the first BBLV strain isolated in 2010 in Germany. The results of Lyssavirus distribution investigation with the detection of infectious virus in the salivary glands suggested a possible transmission of the virus.

## 2.12 STAPHYLOCOCCUS INFECTION

### 2.12.1 General evaluation of the national situation

## 2.13 Q-FEVER

### 2.13.1 General evaluation of the national situation

## 2.14 WEST NILE VIRUS INFECTIONS

### 2.14.1 General evaluation of the national situation

### 2.14.2 West Nile Virus in animals

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Hauts-de-Seine	1	1
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Corse	1	1
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Guyane	1	1

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Ain	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Aube	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Aveyron	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Bouches-du-Rhône	5	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Charente-Maritime	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Calvados	3	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Eure	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Gard	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Haute-Garonne	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic		ELISA	Animal	Hérault	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Jura	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Manche	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Haute-Marne	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Meurthe-et-Moselle	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Morbihan	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Moselle	3	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Oise	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Orne	6	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Pas-de-Calais	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Rhône	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Seine-Maritime	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Seine-et-Marne	3	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Yvelines	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Somme	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Tarn	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Vaucluse	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Vendée	2	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Haute-Vienne	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Vosges	1	0
Solipeds, domestic - horses - at farm - Clinical investigations	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Hauts-de-Seine	1	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Alpes-Maritimes	1	1
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Bouches-du-Rhône	3	3
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Calvados	9	8
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Corse	1	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Loiret	2	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Nièvre	1	0

Table West Nile Virus in Animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Vaccination status	Analytical Method	Sampling unit	Region	Units tested	Total units positive for West Nile Virus
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Oise	15	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Orne	3	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Yvelines	4	0
Solipeds, domestic - horses - at farm - Monitoring - passive	CCA - NRL	Suspect sampling	Official sampling	animal sample > blood	Domestic	no	ELISA	Animal	Vienne	1	0

### 3. INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL RESISTANCE

### 3.1 ESCHERICHIA COLI, NON-PATHOGENIC

#### 3.1.1 General evaluation of the national situation

#### 3.1.2 Antimicrobial resistance in Escherichia coli, non-pathogenic

Table Antimicrobial susceptibility testing of E. coli in Pigs

Escherichia coli, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E.coli, non-pathogenic, unspecified	
	yes	
	200	
Antimicrobials:	N	n
Amphenicols - Chloramphenicol	200	19
Amphenicols - Florfenicol	200	1
Penicillins - Ampicillin	200	44
Tetracyclines - Tetracycline	200	127

Footnote:

strains collected in 2011



Table Antimicrobial susceptibility testing of *E. coli* in *Gallus gallus* (fowl)

<b>Escherichia coli, non-pathogenic</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E.coli, non-pathogenic, unspecified	
	yes	
	201	
Antimicrobials:	N	n
Aminoglycosides - Gentamicin	201	3
Aminoglycosides - Streptomycin	201	81
Amphenicols - Chloramphenicol	201	13
Amphenicols - Florfenicol	201	0
Fluoroquinolones - Ciprofloxacin	201	58
Penicillins - Ampicillin	201	117
Quinolones - Nalidixic acid	201	59
Tetracyclines - Tetracycline	201	153
Trimethoprim	201	83
Fully sensitive	201	26
Resistant to 1 antimicrobial	201	27
Resistant to 2 antimicrobials	201	16
Resistant to 3 antimicrobials	201	16
Resistant to 4 antimicrobials	201	41
Resistant to >4 antimicrobials	201	75
Cephalosporins - Cefotaxime	201	21
Cephalosporins - Ceftazidim	201	19
Sulfonamides - Sulfamethoxazole	201	116

Table Antimicrobial susceptibility testing of E. coli in Gallus gallus (fowl)

Footnote:  
strains collected in 2011

**Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Gallus gallus (fowl) - broilers - before slaughter - Slaughterhouse (strains collected in 2012)**

<b>Escherichia coli, non-pathogenic</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E.coli, non-pathogenic, unspecified	
	yes	
	201	
Antimicrobials:	N	n
Aminoglycosides - Gentamicin	201	1
Aminoglycosides - Streptomycin	201	74
Amphenicols - Chloramphenicol	201	10
Cephalosporins - Cefotaxime	201	16
Fluoroquinolones - Ciprofloxacin	201	64
Penicillins - Ampicillin	201	107
Quinolones - Nalidixic acid	201	69
Tetracyclines - Tetracycline	201	141
Trimethoprim	201	85
Carbapenems - Meropenem	201	0
Cephalosporins - Ceftazidim	201	12
Fully sensitive	201	34
Polymyxins - Colistin	201	0
Resistant to 1 antimicrobial	201	23
Resistant to 2 antimicrobials	201	33
Resistant to 3 antimicrobials	201	15
Resistant to 4 antimicrobials	201	25
Resistant to >4 antimicrobials	201	71

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Gallus gallus (fowl) - broilers - before slaughter - Slaughterhouse (strains collected in 2012)

Escherichia coli, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E. coli, non-pathogenic, unspecified	
	yes	
	201	
Antimicrobials:	N	n
Sulfonamides - Sulfamethoxazole	201	100

Footnote:  
strains collected in 2012

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Rabbits (strains collected in 2012)

Escherichia coli, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E.coli, non-pathogenic, unspecified	
	yes	
	82	
Antimicrobials:	N	n
Aminoglycosides - Gentamicin	82	4
Aminoglycosides - Streptomycin	82	52
Amphenicols - Chloramphenicol	82	13
Cephalosporins - Cefotaxime	82	1
Fluoroquinolones - Ciprofloxacin	82	14
Penicillins - Ampicillin	82	31
Quinolones - Nalidixic acid	82	16
Tetracyclines - Tetracycline	82	70
Trimethoprim	82	63
Carbapenems - Meropenem	82	0
Cephalosporins - Ceftazidim	82	2
Fully sensitive	82	9
Polymyxins - Colistin	82	3
Resistant to 1 antimicrobial	82	4
Resistant to 2 antimicrobials	82	3
Resistant to 3 antimicrobials	82	10
Resistant to 4 antimicrobials	82	20
Resistant to >4 antimicrobials	82	36
Sulfonamides - Sulfamethoxazole	82	64

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Rabbits (strains collected in 2012)

Footnote:  
strains collected in 2012

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Pigs (strains collected in 2012)

Escherichia coli, non-pathogenic	E.coli, non-pathogenic, unspecified	
	yes	
	194	
Isolates out of a monitoring program (yes/no)		
Number of isolates available in the laboratory		
Antimicrobials:	N	n
Aminoglycosides - Gentamicin	194	1
Aminoglycosides - Streptomycin	194	79
Amphenicols - Chloramphenicol	194	14
Cephalosporins - Cefotaxime	194	0
Fluoroquinolones - Ciprofloxacin	194	4
Penicillins - Ampicillin	194	36
Quinolones - Nalidixic acid	194	3
Tetracyclines - Tetracycline	194	116
Trimethoprim	194	64
Carbapenems - Meropenem	194	0
Cephalosporins - Ceftazidim	194	0
Fully sensitive	194	54
Polymyxins - Colistin	194	0
Resistant to 1 antimicrobial	194	33
Resistant to 2 antimicrobials	194	29
Resistant to 3 antimicrobials	194	35
Resistant to 4 antimicrobials	194	23
Resistant to >4 antimicrobials	194	20
Sulfonamides - Sulfamethoxazole	194	76

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Pigs (strains collected in 2012)

Footnote:  
strains collected in 2012



Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - animal sample - caecum (strains collected in 2011) - quantitative data [Dilution method]

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

E.coli, non-pathogenic, unspecified	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																										
	Isolates out of a monitoring program (yes/no) yes																										
	Number of isolates available in the laboratory 201																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	201	3								0	0	71	117	10	1	0	0	2								
Aminoglycosides - Streptomycin	16	201	81												0	12	84	24	14	26	9	16	16				
Amphenicols - Chloramphenicol	16	201	13												1	23	156	8	2	1	2	3	5				
Amphenicols - Florfenicol	16	201	0												4	68	121	8	0	0							
Cephalosporins - Cefotaxime	0.25	201	21				1		39	103	33	4	0	0	3	18											
Fluoroquinolones - Ciprofloxacin	0.064	201	58			3	64		62	14	8	25	15	5	1	0	4										
Penicillins - Ampicillin	8	201	117											7	49	26	2	0	0	0	4	113					
Quinolones - Nalidixic acid	16	201	59											5	105	29	2	1	4	7	29	19					
Tetracyclines - Tetracycline	8	201	153											7	35	5	1	1	19	74	57	2					
Trimethoprim	2	201	83								2	30	48	36	2	0	0	0	83								
Cephalosporins - Ceftazidim	0.5	201	19							16	103	59	4	10	6	2	1	0									
Sulfonamides - Sulfamethoxazole	64	201	116														5	20	44	16	1	0	0		0	115	

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications - Objective sampling - Official sampling - animal sample - caecum (strains collected in 2011) - quantitative data [Dilution method]

E.coli, non-pathogenic, unspecified	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
	Isolates out of a monitoring program (yes/no)	
	yes	
	Number of isolates available in the laboratory	
Antimicrobials:	201	
	lowest	highest
Aminoglycosides - Gentamicin	0.1	16
Aminoglycosides - Streptomycin	2	256
Amphenicols - Chloramphenicol	2	256
Amphenicols - Florfenicol	2	32
Cephalosporins - Cefotaxime	0.02	2
Fluoroquinolones - Ciprofloxacin	0.01	4
Penicillins - Ampicillin	1	128
Quinolones - Nalidixic acid	1	128
Tetracyclines - Tetracycline	1	128
Trimethoprim	0.1	16
Cephalosporins - Ceftazidim	0.1	8
Sulfonamides - Sulfamethoxazole	8	1024

**Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

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

E.coli, non-pathogenic, unspecified	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																											
	yes																											
	200																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	200	6								1	1	79	102	11	1	1	2	2									
Aminoglycosides - Streptomycin	16	200	92												0	11	67	30	18	16	34	16	8					
Amphenicols - Chloramphenicol	16	200	19												2	37	138	4	7	3	2	7	0					
Amphenicols - Florfenicol	16	200	1												4	55	130	10	0	1								
Cephalosporins - Cefotaxime	0.25	200	4				2		62	120	12	0	0	0	0	4												
Fluoroquinolones - Ciprofloxacin	0.064	200	6			7	90		86	11	0	3	2	0	0	0	1											
Penicillins - Ampicillin	8	200	44											12	85	59	0	0	0	0	5	39						
Quinolones - Nalidixic acid	16	200	6											5	125	63	1	0	0	1	2	3						
Tetracyclines - Tetracycline	8	200	127											28	40	3	2	2	16	71	36	2						
Trimethoprim	2	200	77								4	21	51	47	0	0	0	0	77									
Cephalosporins - Ceftazidim	0.5	200	4							22	143	30	1	3	1	0	0	0										
Sulfonamides - Sulfamethoxazole	64	200	88														23	43	42	4	0	0	0		0	88		

**Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

E.coli, non-pathogenic, unspecified	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
	Isolates out of a monitoring program (yes/no)	
	yes	
	Number of isolates available in the laboratory	
Antimicrobials:	200	
	lowest	highest
Aminoglycosides - Gentamicin	0.1	16
Aminoglycosides - Streptomycin	2	256
Amphenicols - Chloramphenicol	2	256
Amphenicols - Florfenicol	2	32
Cephalosporins - Cefotaxime	0.02	2
Fluoroquinolones - Ciprofloxacin	0.01	4
Penicillins - Ampicillin	1	128
Quinolones - Nalidixic acid	1	128
Tetracyclines - Tetracycline	1	128
Trimethoprim	0.1	16
Cephalosporins - Ceftazidim	0.1	8
Sulfonamides - Sulfamethoxazole	8	1024

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

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

E.coli, non-pathogenic, unspecified	Gallus gallus (fowl) - broilers - at slaughterhouse (strains collected in 2012)																											
	Isolates out of a monitoring program (yes/no) yes																											
	Number of isolates available in the laboratory 201																											
	Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	2	201	201										138	59	3	1	0	0	0	0								
Aminoglycosides - Streptomycin	16	201	201													60	56	11	19	16	13	18	8					
Amphenicols - Chloramphenicol	16	201	201													57	116	18	0	3	2	1	4					
Cephalosporins - Cefotaxime	0.25	201	201						58	105	22	0	2	0	0	1	13											
Fluoroquinolones - Ciprofloxacin	0.064	201	201			20	101		10	6	16	22	11	4	3	0	1	7										
Penicillins - Ampicillin	8	201	201											7	40	45	2	0	1	1	13	92						
Quinolones - Nalidixic acid	16	201	201												108	23	0	1	8	14	19	28						
Carbapenems - Meropenem	0.125	201	201								201	0	0															
Cephalosporins - Ceftazidim	0.5	201	201							25	127	30	7	7	3	2	0	0										
Sulfonamides - Sulfamethoxazole	64	201	201														10	43	34	14	0	0	0		2	98		

E.coli, non-pathogenic, unspecified	Gallus gallus (fowl) - broilers - at slaughterhouse (strains collected in 2012)	
	Isolates out of a monitoring program (yes/no)	
	yes	
	Number of isolates available in the laboratory	
Antimicrobials:	201	
	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

<b>E.coli, non-pathogenic, unspecified</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers - at slaughterhouse (strains collected in 2012)	
	yes	
	201	
	lowest	highest
<b>Antimicrobials:</b>		
Amphenicols - Chloramphenicol		
Cephalosporins - Cefotaxime		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Quinolones - Nalidixic acid		
Carbapenems - Meropenem		
Cephalosporins - Ceftazidim		
Sulfonamides - Sulfamethoxazole		

Footnote:

strains collected in 2012

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Pigs - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

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

E.coli, non-pathogenic, unspecified	Pigs - at slaughterhouse (strains collected in 2012)																											
	Isolates out of a monitoring program (yes/no)																											
	Number of isolates available in the laboratory																											
	194																											
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	194	194										136	53	4	1	0	0	0	0								
Aminoglycosides - Streptomycin	16	194	194													54	43	18	15	24	22	14	4					
Amphenicols - Chloramphenicol	16	194	194													61	113	6	3	6	3	0	2					
Cephalosporins - Cefotaxime	0.25	194	194						93	95	6	0	0	0	0	0	0											
Fluoroquinolones - Ciprofloxacin	0.064	194	194			35	139	16	0	0	3	0	0	1	0	0	0											
Penicillins - Ampicillin	8	194	194											23	71	61	3	0	0	1	8	27						
Quinolones - Nalidixic acid	16	194	194												138	51	1	1	0	0	2	1						
Carbapenems - Meropenem	0.125	194	194								194	0	0															
Cephalosporins - Ceftazidim	0.5	194	194							42	126	26	0	0	0	0	0	0										
Sulfonamides - Sulfamethoxazole	64	194	194														21	54	24	19	3	0	0		0	73		

E.coli, non-pathogenic, unspecified	Pigs - at slaughterhouse (strains collected in 2012)	
	Isolates out of a monitoring program (yes/no)	
	Number of isolates available in the laboratory	
	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Pigs - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

E.coli, non-pathogenic, unspecified	Pigs - at slaughterhouse (strains collected in 2012)	
	yes	
	194	
	lowest	highest
Antimicrobials:		
Amphenicols - Chloramphenicol		
Cephalosporins - Cefotaxime		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Quinolones - Nalidixic acid		
Carbapenems - Meropenem		
Cephalosporins - Ceftazidim		
Sulfonamides - Sulfamethoxazole		

Footnote:

strains collected in 2012



Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Rabbits - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

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

E.coli, non-pathogenic, unspecified	Rabbits - at slaughterhouse (strains collected in 2012)																											
	yes																											
	82																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	2	82	82										49	28	1	1	0	1	2	0								
Aminoglycosides - Streptomycin	16	82	82													11	12	7	2	2	12	25	11					
Amphenicols - Chloramphenicol	16	82	82													12	46	11	0	0	2	1	10					
Cephalosporins - Cefotaxime	0.25	82	82						23	45	12	1	0	0	0	0	1											
Fluoroquinolones - Ciprofloxacin	0.064	82	82			1	45		18	4	1	7	5	0	0	0	0	1										
Penicillins - Ampicillin	8	82	82											2	14	33	2	0	0	0	5	26						
Quinolones - Nalidixic acid	16	82	82												40	22	4	0	1	2	4	9						
Carbapenems - Meropenem	0.125	82	82								82	0	0															
Cephalosporins - Ceftazidim	0.5	82	82							8	47	23	2	2	0	0	0	0										
Sulfonamides - Sulfamethoxazole	64	82	82														0	8	5	5	2	0	0		0	62		

E.coli, non-pathogenic, unspecified	Rabbits - at slaughterhouse (strains collected in 2012)	
	yes	
	82	
	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		

Table Antimicrobial susceptibility testing of E.coli, non-pathogenic, unspecified in Rabbits - Slaughterhouse - Domestic - Objective sampling - Official sampling (strains collected in 2012) - quantitative data [Dilution method]

E.coli, non-pathogenic, unspecified	Rabbits - at slaughterhouse (strains collected in 2012)	
	yes	
	82	
Antimicrobials:	lowest	highest
Amphenicols - Chloramphenicol		
Cephalosporins - Cefotaxime		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Quinolones - Nalidixic acid		
Carbapenems - Meropenem		
Cephalosporins - Ceftazidim		
Sulfonamides - Sulfamethoxazole		

Footnote:

strains collected in 2012

Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Animals

Test Method Used	Standard methods used for testing
Broth dilution	NCCLS/CLSI

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	2	
	Streptomycin	EFSA	16	
Amphenicols	Chloramphenicol	EFSA	16	
	Florfenicol		16	
Cephalosporins	Cefotaxime	EFSA	0.25	
	Ceftazidim		0.5	
Fluoroquinolones	Ciprofloxacin	NON-EFSA	0.064	
Penicillins	Ampicillin	EFSA	8	
Quinolones	Nalidixic acid	EFSA	16	
Sulfonamides	Sulfonamides	NON-EFSA		
	Sulfamethoxazole		64	
Tetracyclines	Tetracycline	EFSA	8	
Trimethoprim	Trimethoprim	EFSA	2	

Table Cut-off values used for antimicrobial susceptibility testing of *Escherichia coli*, non-pathogenic in Animals

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Polymyxins	Colistin		2	
Carbapenems	Meropenem		0.125	

## 3.2 ENTEROCOCCUS, NON-PATHOGENIC

### 3.2.1 General evaluation of the national situation

### 3.2.2 Antimicrobial resistance in Enterococcus, non-pathogenic isolates

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Gallus gallus (fowl) - broilers - at slaughterhouse (strains collected in 2011)

Enterococcus, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory  Antimicrobials:	E. faecalis		E. faecium	
	yes		yes	
	69		92	
	N	n	N	n
Aminoglycosides - Gentamicin	69	1	92	0
Aminoglycosides - Streptomycin	69	19	92	17
Amphenicols - Chloramphenicol	69	4	92	1
Fluoroquinolones - Ciprofloxacin	69	2	92	3
Penicillins - Ampicillin	69	1	92	23
Tetracyclines - Tetracycline	69	65	92	84
Fully sensitive	69	1	92	4
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	69	2	92	2
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	69	1	92	0
Glycylcyclines - Tigecycline	69	0	92	1
Macrolides - Erythromycin	69	43	92	52
Oxazolidinones - Linezolid	69	1	92	0
Resistant to 1 antimicrobial	69	25	92	4

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Gallus gallus (fowl) - broilers - at slaughterhouse (strains collected in 2011)

Enterococcus, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	E. faecalis		E. faecium	
	yes		yes	
	69		92	
	N	n	N	n
Antimicrobials:				
Resistant to 2 antimicrobials	69	22	92	30
Resistant to 3 antimicrobials	69	16	92	29
Resistant to 4 antimicrobials	69	4	92	17
Resistant to >4 antimicrobials	69	1	92	8
Streptogramins - Quinupristin/Dalfopristin	69	1	92	76

Footnote:  
strains collected in 2011

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Pigs - at slaughterhouse (strains collected in 2011)

Enterococcus, non-pathogenic  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory  Antimicrobials:	E. faecalis		E. faecium	
	yes		yes	
	12		44	
	N	n	N	n
Aminoglycosides - Gentamicin	12	1	44	0
Aminoglycosides - Streptomycin	12	1	44	15
Amphenicols - Chloramphenicol	12	1	44	0
Fluoroquinolones - Ciprofloxacin	12	0	44	4
Penicillins - Ampicillin	12	0	44	5
Tetracyclines - Tetracycline	12	6	44	30
Fully sensitive	12	6	44	7
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	12	0	44	2
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	12	0	44	0
Glycylcyclines - Tigecycline	12	0	44	0
Macrolides - Erythromycin	12	3	44	10
Oxazolidinones - Linezolid	12	0	44	0
Resistant to 1 antimicrobial	12	3	44	7
Resistant to 2 antimicrobials	12	1	44	13
Resistant to 3 antimicrobials	12	1	44	6
Resistant to 4 antimicrobials	12	0	44	9
Resistant to >4 antimicrobials	12	1	44	2
Streptogramins - Quinupristin/Dalfopristin	12	1	44	31

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Pigs - at slaughterhouse (strains collected in 2011)

Footnote:  
strains collected in 2011



Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Gallus gallus (fowl) (strains collected in 2012)

Enterococcus, non-pathogenic Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	E. faecalis		E. faecium	
	yes		yes	
	111		108	
	N	n	N	n
Aminoglycosides - Gentamicin	111	1	108	2
Aminoglycosides - Streptomycin	111	25	108	28
Amphenicols - Chloramphenicol	111	5	108	1
Fluoroquinolones - Ciprofloxacin	33	2	34	2
Penicillins - Ampicillin	111	0	108	20
Tetracyclines - Tetracycline	111	102	108	88
Fully sensitive	111	3	108	7
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	111	1	108	4
Glycopeptides (Cyclic peptides, Polypeptides) - Teicoplanin	111	0	74	1
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	111	0	108	2
Glycylcyclines - Tigecycline	111	0	108	1
Macrolides - Erythromycin	111	76	108	59
Oxazolidines - Linezolid	111	0	108	2
Resistant to 1 antimicrobial	111	35	108	15
Resistant to 2 antimicrobials	111	44	108	23
Resistant to 3 antimicrobials	111	25	108	34
Resistant to 4 antimicrobials	111	4	108	18
Resistant to >4 antimicrobials	111	0	108	11
Streptogramins - Quinupristin/Dalfopristin	111	2	108	84

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Gallus gallus (fowl) (strains collected in 2012)

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Pigs (strains collected in 2012)

Enterococcus, non-pathogenic Isolates out of a monitoring program (yes/no) Number of isolates available in the laboratory Antimicrobials:	E. faecalis		E. faecium	
	yes		yes	
	17		47	
	N	n	N	n
Aminoglycosides - Gentamicin	17	0	47	0
Aminoglycosides - Streptomycin	17	2	47	8
Amphenicols - Chloramphenicol	17	1	47	1
Fluoroquinolones - Ciprofloxacin	8	0	17	2
Penicillins - Ampicillin	17	0	47	13
Tetracyclines - Tetracycline	17	3	47	33
Fully sensitive	17	14	47	8
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	17	0	47	0
Glycopeptides (Cyclic peptides, Polypeptides) - Teicoplanin	9	0	30	0
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	17	0	47	1
Glycylcyclines - Tigecycline	17	0	47	0
Macrolides - Erythromycin	17	2	47	12
Oxazolidines - Linezolid	17	0	47	0
Resistant to 1 antimicrobial	17	1	47	7
Resistant to 2 antimicrobials	17	0	47	15
Resistant to 3 antimicrobials	17	0	47	9
Resistant to 4 antimicrobials	17	2	47	4
Resistant to >4 antimicrobials	17	0	47	4
Streptogramins - Quinupristin/Dalfopristin	17	1	47	31

Table Antimicrobial susceptibility testing of Enterococcus, non-pathogenic in Pigs (strains collected in 2012)

**Table Antimicrobial susceptibility testing of *E. faecalis* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

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

E. faecalis	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																										
	yes																										
	68																										
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Antimicrobials:																											
Aminoglycosides - Gentamicin	32	68	68											1	0	19	41	6	0	0	0	0		1	0		
Aminoglycosides - Streptomycin	512	68	68														1	0	6	39	3	0	17	1	1		
Amphenicols - Chloramphenicol	32	68	68											0	8	55	1	0	3	1							
Fluoroquinolones - Ciprofloxacin	4	68	68								1	4	55	4	2	0	0	1	1								
Penicillins - Ampicillin	4	68	68							0	0	3	17	46	2	0	0	0	0								
Tetracyclines - Tetracycline	4	68	68								0	4	0	0	0	0	0	7	14	43	0						
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	68	68							0	0	1	27	35	4	0	1	0									
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	68	68								1	2	27	24	14	0	0	0									
Glycylcyclines - Tigecycline	0.25	68	68			0		1	26	40	1	0	0	0													
Macrolides - Erythromycin	4	68	68							2	3	2	11	6	2	1	7	1	1	32							
Oxazolidines - Linezolid	4	68	68									1	9	58	0	0	0										
Streptogramins - Quinupristin/Dalfopristin	16	68	68								0	0	0	0	4	29	35	0	0								

**Table Antimicrobial susceptibility testing of *E. faecalis* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

<i>E. faecalis</i>	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
Isolates out of a monitoring program (yes/no)	yes	
Number of isolates available in the laboratory	68	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidinones - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

**Table Antimicrobial susceptibility testing of *E. faecium* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

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

E. faecium	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																											
	Isolates out of a monitoring program (yes/no)	yes																										
		92																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	32	92	92												3	9	50	29	1	0	0	0	0		0			
Aminoglycosides - Streptomycin	128	92	92															0	12	54	9	1	2	3	5	6		
Amphenicols - Chloramphenicol	32	92	92												1	12	68	8	2	1	0							
Fluoroquinolones - Ciprofloxacin	4	92	92									7	2	12	29	39	2	0	1	0								
Penicillins - Ampicillin	4	92	92								0	2	21	15	21	10	16	1	0	6								
Tetracyclines - Tetracycline	4	94	94									2	6	0	0	0	1	0	2	14	68	1						
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	92	92								0	5	7	9	35	34	2	0	0									
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	92	92									0	32	54	5	1	0	0	0									
Glycylcyclines - Tigecycline	0.25	92	92				0	3	49	36	3	1	0	0														
Macrolides - Erythromycin	4	92	92								9	3	1	22	4	1	1	1	2	0	48							
Oxazolidinones - Linezolid	4	92	92										0	5	83	4	0	0										
Streptogramins - Quinupristin/Dalfopristin	1	92	92									0	3	13	19	46	7	2	2	0								

**Table Antimicrobial susceptibility testing of *E. faecium* in *Gallus gallus* (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011) - quantitative data [Dilution method]**

<i>E. faecium</i>	Gallus gallus (fowl) - broilers - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
Isolates out of a monitoring program (yes/no)	yes	
Number of isolates available in the laboratory	92	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidinones - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		



Table Antimicrobial susceptibility testing of E. faecium in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)  
- quantitative data [Dilution method]

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

E. faecium	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																											
	yes																											
	44																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Antimicrobials:																												
Aminoglycosides - Gentamicin	32	44	44												2	3	25	14	0	0	0	0	0		0			
Aminoglycosides - Streptomycin	128	44	44															0	3	22	4	0	0	7	1	7		
Amphenicols - Chloramphenicol	32	44	44												0	10	33	1	0	0	0							
Fluoroquinolones - Ciprofloxacin	4	44	44									3	8	8	2	19	3	1	0	0								
Penicillins - Ampicillin	4	44	44								0	2	7	15	4	11	3	0	2	0								
Tetracyclines - Tetracycline	4	44	44									10	4	0	0	0	0	0	1	9	20	0						
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	44	44								0	0	3	4	12	23	2	0	0									
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	44	44									1	32	3	8	0	0	0	0									
Glycylcyclines - Tigecycline	0.25	44	44				0		23	18	3	0	0	0	0													
Macrolides - Erythromycin	4	44	44								1	2	1	7	19	4	0	0	0	0	10							
Oxazolidines - Linezolid	4	44	44										0	2	42	0	0	0										
Streptogramins - Quinupristin/Dalfopristin	1	44	44									0	8	5	26	5	0	0	0	0								

Table Antimicrobial susceptibility testing of *E. faecium* in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)  
- quantitative data [Dilution method]

<b>E. faecium</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
	yes	
	44	
	lowest	highest
<b>Antimicrobials:</b>		
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Table Antimicrobial susceptibility testing of E. faecalis in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)  
- quantitative data [Dilution method]

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

E. faecalis	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)																											
	Isolates out of a monitoring program (yes/no)																											
	yes																											
	Number of isolates available in the laboratory																											
Antimicrobials:	12																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Aminoglycosides - Gentamicin	32	12	12												0	0	3	8	0	0	0	0	0		1			
Aminoglycosides - Streptomycin	512	12	12															0	0	1	10	0	0		0	1		
Amphenicols - Chloramphenicol	32	12	12												0	1	8	2	0	1	0							
Fluoroquinolones - Ciprofloxacin	4	12	12									0	0	6	6	0	0	0	0	0								
Penicillins - Ampicillin	4	12	12								0	0	0	0	12	0	0	0	0	0								
Tetracyclines - Tetracycline	4	12	12									0	3	3	0	0	0	0	1	0	5	0						
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	12	12								0	0	0	1	9	2	0	0	0									
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	12	12									0	0	4	6	2	0	0	0									
Glycylcyclines - Tigecycline	0.25	12	12				0		0	3	9	0	0	0	0													
Macrolides - Erythromycin	4	12	12								0	1	0	7	1	0	0	0	0	0	3							
Oxazolidines - Linezolid	4	12	12										0	0	12	0	0	0										
Streptogramins - Quinupristin/Dalfopristin	16	12	12									0	0	0	0	0	3	8	1	0								

Table Antimicrobial susceptibility testing of *E. faecalis* in Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)  
- quantitative data [Dilution method]

<b>E. faecalis</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Pigs - at slaughterhouse - Monitoring - EFSA specifications (strains collected in 2011)	
	yes	
	12	
	lowest	highest
<b>Antimicrobials:</b>		
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Fluoroquinolones - Ciprofloxacin		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Table Antimicrobial susceptibility testing of *E. faecalis* in *Gallus gallus* (fowl) - broilers (strains collected in 2012) - quantitative data [Dilution method]

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

E. faecalis	Gallus gallus (fowl) - broilers (strains collected in 2012)																										
	yes																										
	111																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	32	111	111													1	47	61	1	0	0	0	0		1		
Aminoglycosides - Streptomycin	512	111	111																	19	65	1	1	22	2	1	
Amphenicols - Chloramphenicol	32	111	111													6	97	2	1	4	1						
Penicillins - Ampicillin	4	111	111									4	5	62	39	1	0	0	0	0							
Tetracyclines - Tetracycline	4	111	111									2	5	1	1	0	0	0	7	30	59	6					
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	111	111									1	3	62	37	7	0	0	1								
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	111	111										3	46	51	11	0	0	0								
Glycylcyclines - Tigecycline	0.25	111	111						2	41	35	33	0	0	0												
Macrolides - Erythromycin	4	111	111										17	14	3	1	5	11	9	2	49						
Oxazolidines - Linezolid	4	111	111										0	47	64	0	0	0									
Streptogramins - Quinupristin/Dalfopristin	16	111	111										0	1	1	4	68	35	2	0							

<div>E. faecalis</div> <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> <div>Antimicrobials:</div>	Gallus gallus (fowl) - broilers (strains collected in 2012)	
	yes	
	111	
	lowest	highest
Aminoglycosides - Gentamicin		

Table Antimicrobial susceptibility testing of E. faecalis in Gallus gallus (fowl) - broilers (strains collected in 2012) - quantitative data [Dilution method]

<div>E. faecalis</div> <div>Isolates out of a monitoring program (yes/no)</div> <div>Number of isolates available in the laboratory</div> <div>Antimicrobials:</div>	Gallus gallus (fowl) - broilers (strains collected in 2012)	
	yes	
	111	
	lowest	highest
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Footnote:  
strains collected in 2012

Table Antimicrobial susceptibility testing of E. faecium in Gallus gallus (fowl) - broilers (strains collected in 2012) - quantitative data [Dilution method]

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

E. faecium	Gallus gallus (fowl) - broilers (strains collected in 2012)																											
	yes																											
	108																											
	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048		
Antimicrobials:																												
Aminoglycosides - Gentamicin	32	108	108													9	54	42	1	0	0	0	0		2			
Aminoglycosides - Streptomycin	128	108	108																66	14	3	0	10	6	9			
Amphenicols - Chloramphenicol	32	108	108													16	80	7	4	0	1							
Penicillins - Ampicillin	4	108	108									7	18	23	24	16	10	0	1	9								
Tetracyclines - Tetracycline	4	108	108									1	18	1	0	0	1	3	0	20	57	7						
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	108	108									5	2	11	43	43	3	0	1									
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	108	108										53	38	14	1	1	0	1									
Glycylcyclines - Tigecycline	0.25	108	108						4	44	26	33	1	0	0													
Macrolides - Erythromycin	4	108	108										15	20	12	2	1	0	1	2	55							
Oxazolidines - Linezolid	4	108	108										1	13	88	4	0	2										
Streptogramins - Quinupristin/Dalfopristin	1	108	108										7	17	24	39	14	5	1	1								

E. faecium	Gallus gallus (fowl) - broilers (strains collected in 2012)	
	yes	
	108	
	lowest	highest
Antimicrobials:		
Aminoglycosides - Gentamicin		

Table Antimicrobial susceptibility testing of E. faecium in Gallus gallus (fowl) - broilers (strains collected in 2012) - quantitative data [Dilution method]

<b>E. faecium</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Gallus gallus (fowl) - broilers (strains collected in 2012)	
	yes	
	108	
	lowest	highest
<b>Antimicrobials:</b>		
Aminoglycosides - Streptomycin		
Amphenicols - Chloramphenicol		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Footnote:  
strains collected in 2012



Table Antimicrobial susceptibility testing of E. faecalis in Pigs (strains collected in 2012) - quantitative data [Dilution method]

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

E. faecalis	Pigs (strains collected in 2012)																										
	yes																										
	17																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	32	17	17													0	5	12	0	0	0	0	0		0		
Aminoglycosides - Streptomycin	512	17	17																	3	12	0	0	1	0	1	
Amphenicols - Chloramphenicol	32	17	17													3	13	0	0	0	1						
Penicillins - Ampicillin	4	17	17									3	0	8	6	0	0	0	0	0							
Tetracyclines - Tetracycline	4	17	17									2	10	2	0	0	0	0	0	1	2	0					
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	17	17									0	0	7	9	1	0	0	0								
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	17	17										0	6	8	3	0	0	0								
Glycylcyclines - Tigecycline	0.25	17	17						0	5	7	5	0	0	0												
Macrolides - Erythromycin	4	17	17										7	3	5	0	0	0	0	0	2						
Oxazolidines - Linezolid	4	17	17										0	0	17	0	0	0									
Streptogramins - Quinupristin/Dalfopristin	16	17	17										0	0	0	0	13	3	1	0							

E. faecalis	Pigs (strains collected in 2012)	
	yes	
	17	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		

Table Antimicrobial susceptibility testing of E. faecalis in Pigs (strains collected in 2012) - quantitative data [Dilution method]

E. faecalis  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Pigs (strains collected in 2012)	
	yes	
	17	
Antimicrobials:	lowest	highest
Amphenicols - Chloramphenicol		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Footnote:  
strains collected in 2012

Table Antimicrobial susceptibility testing of E. faecium in Pigs (strains collected in 2012) - quantitative data [Dilution method]

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

E. faecium	Pigs (strains collected in 2012)																										
	yes																										
	47																										
Antimicrobials:	Cut-off value	N	n	<=0.002	<=0.004	0.008	0.015	0.016	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	>4096	1024	2048	
Aminoglycosides - Gentamicin	32	47	47													5	30	12	0	0	0	0	0	0			
Aminoglycosides - Streptomycin	128	47	47																	35	4	0	0	6	1	1	
Amphenicols - Chloramphenicol	32	47	47													5	40	1	0	1	0						
Penicillins - Ampicillin	4	47	47									4	4	7	9	10	11	2	0	0							
Tetracyclines - Tetracycline	4	47	47									1	9	2	1	1	0	0	1	14	14	4					
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin	4	47	47									1	5	6	16	19	0	0	0								
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin	4	47	47										25	14	2	5	1	0	0								
Glycylcyclines - Tigecycline	0.25	47	47						0	8	17	22	0	0	0												
Macrolides - Erythromycin	4	47	47										7	6	20	2	0	0	1	1	10						
Oxazolidines - Linezolid	4	47	47										0	1	36	10	0	0									
Streptogramins - Quinupristin/Dalfopristin	1	47	47										8	8	6	21	4	0	0	0							

E. faecium	Pigs (strains collected in 2012)	
	yes	
	47	
Antimicrobials:	lowest	highest
Aminoglycosides - Gentamicin		
Aminoglycosides - Streptomycin		

Table Antimicrobial susceptibility testing of *E. faecium* in Pigs (strains collected in 2012) - quantitative data [Dilution method]

<b>E. faecium</b>  Isolates out of a monitoring program (yes/no)  Number of isolates available in the laboratory	Pigs (strains collected in 2012)	
	yes	
	47	
Antimicrobials:	lowest	highest
Amphenicols - Chloramphenicol		
Penicillins - Ampicillin		
Tetracyclines - Tetracycline		
Glycopeptides (Cyclic peptides, Polypeptides) - Daptomycin		
Glycopeptides (Cyclic peptides, Polypeptides) - Vancomycin		
Glycylcyclines - Tigecycline		
Macrolides - Erythromycin		
Oxazolidines - Linezolid		
Streptogramins - Quinupristin/Dalfopristin		

Footnote:

strains collected in 2012

Table Cut-off values for antibiotic resistance of *E. faecalis* in Animals

Test Method Used		Standard methods used for testing		
Broth dilution		NCCLS/CLSI		

  

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	32	
	Streptomycin	EFSA	512	
Amphenicols	Chloramphenicol	EFSA	32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin	EFSA	4	
	Daptomycin		4	
Macrolides	Erythromycin	EFSA	4	
Oxazolidines	Linezolid	EFSA	4	
Penicillins	Ampicillin	EFSA	4	
Streptogramins	Quinupristin/Dalfopristin	NON-EFSA	16	
Tetracyclines	Tetracycline	NON-EFSA	4	
Fluoroquinolones	Ciprofloxacin		4	
Glycylcyclines	Tigecycline		0.25	

Table Cut-off values for antibiotic resistance of *E. faecalis* in Animals

Table Cut-off values for antibiotic resistance of *E. faecium* in Animals

Test Method Used		Standard methods used for testing		
Broth dilution		NCCLS/CLSI		

  

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	32	
	Streptomycin	EFSA	128	
Amphenicols	Chloramphenicol	EFSA	32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin	EFSA	4	
	Daptomycin		4	
Macrolides	Erythromycin	EFSA	4	
Oxazolidines	Linezolid	EFSA	4	
Penicillins	Ampicillin	EFSA	4	
Streptogramins	Quinupristin/Dalfopristin	EFSA	1	
Tetracyclines	Tetracycline	NON-EFSA	4	
Fluoroquinolones	Ciprofloxacin		4	
Glycylcyclines	Tigecycline		0.25	

Table Cut-off values for antibiotic resistance of E. faecium in Animals



## 4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS

## 4.1 CRONOBACTER

### 4.1.1 General evaluation of the national situation

## 4.2 HISTAMINE

### 4.2.1 General evaluation of the national situation

### 4.2.2 Histamine in foodstuffs

Table Histamine in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	CCA	Objective sampling	Official sampling	food sample	Domestic	Single	225 g	19	0	19	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	CCA	Objective sampling	Official sampling	food sample	Imported from outside EU	Single	225 g	42	2	40	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	CCA	Objective sampling	Official sampling	food sample	Intra EU trade	Single	225 g	10	0	10	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	CCA	Objective sampling	Official sampling	food sample	Domestic	Single	225 g	86	0	86	0

Table Histamine in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units in non-conformity	<= 100 mg/kg	>100 - <= 200 mg/kg
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	CCA	Objective sampling	Official sampling	food sample	Imported from outside EU	Single	225 g	16	1	15	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	CCA	Objective sampling	Official sampling	food sample	Intra EU trade	Single	225 g	33	0	33	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	CCA	Objective sampling	Official sampling	food sample	Domestic	Single	225 g	265	2	263	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	CCA	Objective sampling	Official sampling	food sample	Imported from outside EU	Single	225 g	35	0	35	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	CCA	Objective sampling	Official sampling	food sample	Intra EU trade	Single	225 g	55	2	53	2
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	CCA	Objective sampling	Official sampling	food sample	Unknown	Single	225 g	12	0	12	0

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	0	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	2	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at catering - Surveillance	0	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	0	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	0	1
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at fishmonger)	0	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	2	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	0	0

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	0	0
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme matured - at retail - Surveillance (at supermarket)	0	0

Footnote:

Analytical method : HPLC

Regarding the type of fish species associated with a high amount of histidine, the following species were particularly sampled : Scombridae, Clupeidae, Engraulidae, Coryfenidae, Pomatomidae, Scombresosidae

## 4.3 STAPHYLOCOCCAL ENTEROTOXINS

### 4.3.1 General evaluation of the national situation

## 5. FOODBORNE

Foodborne outbreaks are incidences of two or more human cases of the same disease or infection where the cases are linked or are probably linked to the same food source. Situation, in which the observed human cases exceed the expected number of cases and where a same food source is suspected, is also indicative of a foodborne outbreak.

Table Foodborne Outbreaks: summarised data

	Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
	Number of outbreaks	Human cases	Hospitalized	Deaths		
Salmonella - S. Typhimurium	12	63	12	0	22	34
Salmonella - S. Enteritidis	11	95	7	0	22	33
Salmonella - Other serovars	73	534	51	0	32	105
Campylobacter	13	80	8	0	5	18
Listeria - Listeria monocytogenes	0	unknown	unknown	unknown	0	0
Listeria - Other Listeria	0	unknown	unknown	unknown	0	0
Yersinia	2	5	0	0	0	2
Escherichia coli, pathogenic - Verotoxigenic E. coli (VTEC)	2	12	1	0	0	2
Bacillus - B. cereus	198	1673	115	3	20	218
Bacillus - Other Bacillus	0	unknown	unknown	unknown	0	0
Staphylococcal enterotoxins	291	1842	175	1	9	300
Clostridium - Cl. botulinum	0	unknown	unknown	unknown	2	2
Clostridium - Cl. perfringens	67	1105	15	0	23	90



	Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
	Number of outbreaks	Human cases	Hospitalized	Deaths		
Clostridium - Other Clostridia	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Brucella	0	unknown	unknown	unknown	1	1
Other Bacterial agents - Shigella	0	unknown	unknown	unknown	2	2
Other Bacterial agents - Other Bacterial agents	0	unknown	unknown	unknown	1	1
Parasites - Trichinella	0	unknown	unknown	unknown	0	0
Parasites - Giardia	0	unknown	unknown	unknown	0	0
Parasites - Cryptosporidium	0	unknown	unknown	unknown	0	0
Parasites - Anisakis	0	unknown	unknown	unknown	0	0
Parasites - Other Parasites	0	unknown	unknown	unknown	0	0
Viruses - Norovirus	1	9	9	1	12	13
Viruses - Hepatitis viruses	0	unknown	unknown	unknown	2	2
Viruses - Other Viruses	33	631	28	0	0	33
Other agents - Histamine	28	91	20	0	13	41
Other agents - Marine biotoxins	28	107	2	0	12	40
Other agents - Other Agents	0	unknown	unknown	unknown	1	1

Unknown agent	Weak evidence or no vehicle outbreaks				Strong evidence Number of Outbreaks	Total number of outbreaks
	Number of outbreaks	Human cases	Hospitalized	Deaths		
	312	1642	84	0		

Table Foodborne Outbreaks: detailed data for Bacillus

Please use CTRL for multiple selection fields

**B. cereus**

Value

FBO Code	12_971_001
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_094_019
Number of outbreaks	1
Number of human cases	61
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_092_003
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_080_009
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cereal products including rice and seeds/pulses (nuts, almonds)
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_077_003
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_076_018
Number of outbreaks	1
Number of human cases	16
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## B. cereus

Value

FBO Code	12_075_105
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_063_004
Number of outbreaks	1
Number of human cases	40
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_006_016
Number of outbreaks	1
Number of human cases	37
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_006_008
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_059_009
Number of outbreaks	1
Number of human cases	9
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Turkey meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_047_001
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_042_009
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_040_010
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## B. cereus

Value

FBO Code	12_031_004
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_030_013
Number of outbreaks	1
Number of human cases	11
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	652576
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_017_006
Number of outbreaks	1
Number of human cases	11
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cereal products including rice and seeds/pulses (nuts, almonds)
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	652346
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## B. cereus

Value

FBO Code	12_013_028
Number of outbreaks	1
Number of human cases	108
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Campylobacter

Please use CTRL for multiple selection fields

## Campylobacter spp., unspecified

Value

FBO Code	653616
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. jejuni

Value

FBO Code	12_076_012
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## C. jejuni

Value

FBO Code	12_062_009
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Turkey meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. jejuni

Value

FBO Code	651031
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. jejuni

Value

FBO Code	651027
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Clostridium

Please use CTRL for multiple selection fields

**C. perfringens**

Value

FBO Code	12_092_028
Number of outbreaks	1
Number of human cases	25
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_089_003
Number of outbreaks	1
Number of human cases	120
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_082_003
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_075_068
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_075_064
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Vegetables and juices and other products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## C. perfringens

Value

FBO Code	12_075_061
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_075_054
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_072_005
Number of outbreaks	1
Number of human cases	18
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_061_003
Number of outbreaks	1
Number of human cases	28
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_056_011
Number of outbreaks	1
Number of human cases	28
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_053_003
Number of outbreaks	1
Number of human cases	65
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_053_002
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_046_001
Number of outbreaks	1
Number of human cases	27
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## C. perfringens

Value

FBO Code	652895
Number of outbreaks	1
Number of human cases	80
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_034_018
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_031_005
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_030_017
Number of outbreaks	1
Number of human cases	25
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	656246
Number of outbreaks	1
Number of human cases	22
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_014_004
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	654168
Number of outbreaks	1
Number of human cases	150
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_013_011
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## C. perfringens

Value

FBO Code	12_001_010
Number of outbreaks	1
Number of human cases	12
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. perfringens

Value

FBO Code	12_001_008
Number of outbreaks	1
Number of human cases	54
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. botulinum

Value

FBO Code	12_072_009
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Vegetables and juices and other products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## C. botulinum

Value

FBO Code	655157
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Canned food products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Other Bacterial agents

Please use CTRL for multiple selection fields

## Brucella

Value

FBO Code	656991
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Francisella

Value

FBO Code	656993
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Infected food handler
Mixed Outbreaks (Other Agent)	
Additional information	

## Shigella

Value

FBO Code	650478
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Shigella

Value

FBO Code	656173
Number of outbreaks	1
Number of human cases	42
Number of hospitalisations	4
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



Table Foodborne Outbreaks: detailed data for Other agents

Please use CTRL for multiple selection fields

## Histamine

Value

FBO Code	12_974_014
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_075_047
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_075_042
Number of outbreaks	1
Number of human cases	9
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_056_008
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	652941
Number of outbreaks	3
Number of human cases	7
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_033_036
Number of outbreaks	1
Number of human cases	12
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_031_008
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	652403
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	



## Histamine

Value

FBO Code	12_030_003
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_029_001
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Histamine

Value

FBO Code	12_017_018
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_972_010
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_972_007
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_017
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_014
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_012
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Marine biotoxins

Value

FBO Code	12_971_011
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_010
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_009
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_007
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_971_005
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_017_008
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Marine biotoxins

Value

FBO Code	12_017_009
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Atropine

Value

FBO Code	12_083_027
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	Atropine : waiting for adding in EFSA database



Table Foodborne Outbreaks: detailed data for Salmonella

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Value

FBO Code	12_085_012
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_085_014
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_085_013
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652353
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651963
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652343
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651961
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651441
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



null

Value

FBO Code	652061
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	653954
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	653824
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_063_017
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_063_016
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_050_005
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652153
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652205
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



null

Value

FBO Code	12_030_010
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	653815
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_029_007
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_029_006
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	653169
Number of outbreaks	1
Number of human cases	15
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651971
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651950
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_024_003
Number of outbreaks	1
Number of human cases	12
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



null

Value

FBO Code	12_014_009
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	654621
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_973_001
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_972_008
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	653506
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	653539
Number of outbreaks	1
Number of human cases	16
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	656249
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_083_012
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Salmonella spp., unspecified

Value

FBO Code	12_078_010
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_078_009
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Turkey meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_075_045
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_075_044
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_074_004
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	654818
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_007_004
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_069_029
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Salmonella spp., unspecified

Value

FBO Code	651563
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_063_006
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_049_006
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_044_009
Number of outbreaks	1
Number of human cases	25
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	654175
Number of outbreaks	1
Number of human cases	30
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_041_005
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_041_003
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_036_003
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Salmonella spp., unspecified

Value

FBO Code	649949
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	652054
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	650595
Number of outbreaks	1
Number of human cases	13
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	653034
Number of outbreaks	1
Number of human cases	12
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	652202
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	12_018_001
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	653183
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	653799
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Salmonella spp., unspecified

Value

FBO Code	12_010_003
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

## Salmonella spp., unspecified

Value

FBO Code	648935
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653102
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	655162
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_085_006
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_083_025
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	7
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653297
Number of outbreaks	1
Number of human cases	9
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	652825
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## S. Enteritidis

Value

FBO Code	12_079_004
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_074_015
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653178
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_070_003
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653957
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653956
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_063_011
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	4
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653172
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## S. Enteritidis

Value

FBO Code	12_052_003
Number of outbreaks	1
Number of human cases	56
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_038_012
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	4
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Infected food handler
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_030_015
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_003_004
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	653236
Number of outbreaks	1
Number of human cases	10
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_017_026
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Infected food handler
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	12_015_003
Number of outbreaks	1
Number of human cases	9
Number of hospitalisations	7
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Enteritidis

Value

FBO Code	650816
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	7
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## S. Typhimurium

Value

FBO Code	12_094_006
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_074_023
Number of outbreaks	1
Number of human cases	56
Number of hospitalisations	5
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	653250
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Unknown
Setting	Unknown
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_070_005
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_069_016
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_065_002
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	653176
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	654181
Number of outbreaks	1
Number of human cases	28
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	



## S. Typhimurium

Value

FBO Code	650553
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	1
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_059_039
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_059_035
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Other, mixed or unspecified poultry meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	648849
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Broiler meat (Gallus gallus) and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	654456
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	653814
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_043_002
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	3
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_041_009
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## S. Typhimurium

Value

FBO Code	12_037_011
Number of outbreaks	1
Number of human cases	5
Number of hospitalisations	5
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	654172
Number of outbreaks	1
Number of human cases	7
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_022_002
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_014_008
Number of outbreaks	1
Number of human cases	20
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	654169
Number of outbreaks	1
Number of human cases	20
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## S. Typhimurium

Value

FBO Code	12_013_010
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Bovine meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Staphylococcal enterotoxins

Please use CTRL for multiple selection fields

null

Value

FBO Code	652408
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652578
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



null

Value

FBO Code	12_046_002
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Pig meat and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_044_013
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	652820
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651972
Number of outbreaks	1
Number of human cases	29
Number of hospitalisations	2
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	12_033_019
Number of outbreaks	1
Number of human cases	29
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	651350
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

null

Value

FBO Code	653529
Number of outbreaks	1
Number of human cases	13
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Other or mixed red meat and products thereof
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Inadequate chilling
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Unknown agent

Please use CTRL for multiple selection fields

## Unknown

Value

FBO Code	12_974_016
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Eggs and egg products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Unknown

Value

FBO Code	12_084_002
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Unknown

Value

FBO Code	12_013_044
Number of outbreaks	1
Number of human cases	19
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

Table Foodborne Outbreaks: detailed data for Viruses

Please use CTRL for multiple selection fields

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_085_003
Number of outbreaks	1
Number of human cases	40
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	Residential institution (nursing home, prison, boarding school)
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_065_003
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_064_012
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	650831
Number of outbreaks	1
Number of human cases	26
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Cheese
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	656154
Number of outbreaks	1
Number of human cases	3
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	650828
Number of outbreaks	1
Number of human cases	43
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	



## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_040_016
Number of outbreaks	1
Number of human cases	4
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unprocessed contaminated ingredient
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_040_001
Number of outbreaks	1
Number of human cases	2
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Crustaceans, shellfish, molluscs and products thereof
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_035_003
Number of outbreaks	1
Number of human cases	100
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Mixed food
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	General
Setting	School, kindergarten
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	651195
Number of outbreaks	1
Number of human cases	6
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	12_033_033
Number of outbreaks	1
Number of human cases	19
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent
Outbreak type	Household / domestic kitchen
Setting	Household / domestic kitchen
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Calicivirus - norovirus (Norwalk-like virus)

Value

FBO Code	656166
Number of outbreaks	1
Number of human cases	19
Number of hospitalisations	0
Number of deaths	0
Food vehicle	Fish and fish products
More food vehicle information	
Nature of evidence	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans
Outbreak type	General
Setting	Canteen or workplace catering
Place of origin of problem	Unknown
Origin of food vehicle	Domestic
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Hepatitis virus - Hepatitis A virus

Value

FBO Code	655767
Number of outbreaks	1
Number of human cases	26
Number of hospitalisations	1
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Other setting
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	

## Hepatitis virus - Hepatitis A virus

Value

FBO Code	655742
Number of outbreaks	1
Number of human cases	8
Number of hospitalisations	6
Number of deaths	0
Food vehicle	Other foods
More food vehicle information	
Nature of evidence	Descriptive epidemiological evidence
Outbreak type	General
Setting	Restaurant, Cafe, Pub, Bar, Hotel
Place of origin of problem	Unknown
Origin of food vehicle	Unknown
Contributory factors	Unknown
Mixed Outbreaks (Other Agent)	
Additional information	