European Food Safety Authority

ZOONOSES MONITORING

CYPRUS

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

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

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

IN 2012

INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: Cyprus

Reporting Year: 2012

Laboratory name	Description	Contribution
Necropsy Lab	Microbiology Necropsy	Microbiological and Pathologoanatomy data
Animal Health Lab	AHL	Animal Health microbiological data
Lab for the Control of Food of Animal Origin	LCFAO	Food Safety and Food Microbiology data

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 Cyprus 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.

Cyprus - 2012

^{*} 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.

A. Information on susceptible animal population

Sources of information

The information furnished derives from the Veterinary Services' database.

Dates the figures relate to and the content of the figures

The numbers represent the animals present until the end of December 2012.

National evaluation of the numbers of susceptible population and trends in these figures

The total bovine population is estimated to 57,438 animals, reared in 356 herds. The population under the brucellosis program is 39,445 animals in 306 herds.

The total sheep and goat population is estimated to 580,839 reared in 3,367 flocks. The population under the brucellosis program is 524,845 animals reared in 3,081 flocks.

* Only if different than current reporting year

		Number of he	erds or flocks	Number of anir	slaughtered nals	Livestock n	umbers (live nals)	Number o	f holdings
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*
	dairy cows and heifers					39851			
Cottle (hoving enimale)	calves (under 1 year)					17587			
Cattle (bovine animals)	mixed herds							356	
	- in total					57438		356	
	meat production flocks	0		0		0		0	
	parent breeding flocks	0		0		0		0	
	grandparent breeding flocks	0		0		0		0	
D. d.	elite breeding flocks	0		0		0		0	
Ducks	breeding flocks, unspecified - in total	0		0		0		0	
	laying ducks	0		0		0		0	
	mixed flocks/holdings	0		0		0		0	
	- in total	0		0		0		0	
Gallus gallus (fowl)	breeding flocks for egg production line - in total	1				2100		1	

		Number of he	erds or flocks	Number of anir	slaughtered nals	Livestock no anin	umbers (live nals)	Number of holdings		
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*	
	breeding flocks for meat production line - in total	23				114900		8		
	breeding flocks, unspecified - in total	67				340748		16		
	elite breeding flocks for egg production line	0		0		0		0		
	elite breeding flocks for meat production line	0		0		0		0		
	elite breeding flocks, unspecified - in total	0		0		0		0		
	parent breeding flocks for egg production line	0		0		0		0		
Calling ralling (family)	parent breeding flocks for meat production line	0		0		0		0		
Gallus gallus (fowl)	grandparent breeding flocks for egg production line	0		0		0		0		
	grandparent breeding flocks for meat production line	0		0		0		0		
	grandparent breeding flocks, unspecified - in total	0		0		0		0		
	laying hens	105				536605		36		
	broilers			10516561		10549453		147		
	mixed flocks/holdings	0		0		0		0		
	- in total	1128		10516561		11543806		277		

		Number of h	erds or flocks		slaughtered mals	Livestock n	umbers (live nals)	Number of holdings		
Animal species	Category of animals	Data	Year*	Data	Year*	Data	Year*	Data	Year*	
	animals under 1 year					148009				
Goats	animals over 1 year					432830				
Guals	mixed herds							3367		
	- in total					580839		3367		
	breeding animals					34238				
Digo	fattening pigs					287185				
Pigs	mixed herds							86		
	- in total					341423		86		
	meat production animals					148009				
Chaon	animals under 1 year (lambs)					432830				
Sheep	mixed herds							3367		
	- in total					580839		3367		
Solipeds, domestic	horses - in total					5179		356		
Turkeys	meat production flocks					25811		8		

	Number of he	erds or flocks		slaughtered mals	Livestock no anin	umbers (live nals)	Number of holdings		
Animal species	Category of animals	Data Year*		Data	Year*	Data	Year*	Data	Year*
Turkeys	- in total					25811		8	

2. INFORMATION ON SPECIFIC ZOONOSES AND ZOONOTIC AGENTS

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

2.1 SALMONELLOSIS

2.1.1 General evaluation of the national situation

A. General evaluation

History of the disease and/or infection in the country

Over the last years a surveillance program has been applied by the Veterinary Services covering the poultry sector. Foods of animal origin are examined for Samonella on a regular basis.

National evaluation of the recent situation, the trends and sources of infection Nowadays data exist for poultry and foods of animal origin.

2.1.2 Salmonellosis in humans

A. Salmonellosis in humans

Reporting system in place for the human cases

YES. SINCE 1932

Case definition

EU RECOMMENDED CASE DEFINITION SINCE JANUARY 2004

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY DIAGNOSTIC CRITERIA.

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND AMENDMENTS. MANDATORY NOTIFIABLE SINCE 1932

History of the disease and/or infection in the country

SPORADIC CASES ARE REPORTED YEARLY AS WELL AS OCCASIONAL SMALL OUTBREAKS. ACTIVE SURVEILLANCE IS IN PLACE AS WELL AS CASE BY CASE INVESTIGATION BY THE ENVIRONMENTAL HEALTH INSPECTORS

Relevance as zoonotic disease

SURVEILLANCE OF HUMAN CASES IS ACTIVE BEARING IN MIND THE NEED TO EVALUATE PREVENTION PROGRAMMES AS WELL AS THE EARLY DIAGNOSIS OF CASES AND PREVENTION OF FURTHER CASES

Additional information

The relevant data for 2012 will be submitted by the colleagues of the Ministry of Health through the ECDC database network.

Cyprus - 2012

2.1.3 Salmonella in foodstuffs

A. Salmonella spp. in broiler meat and products thereof

Monitoring system

Sampling strategy

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Definition of positive finding

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

Cyprus - 2012 Report on trends and sources of zoonoses

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

B. Salmonella spp. in pig meat and products thereof

Monitoring system

Sampling strategy

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Definition of positive finding

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

C. Salmonella spp. in bovine meat and products thereof

Monitoring system

Sampling strategy

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Definition of positive finding

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

D. Salmonella spp. in turkey meat and products thereof

Monitoring system

Sampling strategy

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Definition of positive finding

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

E. Salmonella spp. in eggs and egg products

Monitoring system

Sampling strategy

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Eggs at egg packing centres (foodstuff based approach)

NO DATA AVAILABLE

Eggs at retail

NO DATA AVAILABLE

Raw material for egg products (at production plant)

NO DATA AVAILABLE

Egg products (at production plant and at retail)

NO DATA AVAILABLE

Definition of positive finding

Eggs at egg packing centres (foodstuff based approach)

NO DATA AVAILABLE

Eggs at retail

NO DATA AVAILABLE

Raw material for egg products (at production plant)

NO DATA AVAILABLE

Egg products (at production plant and at retail)

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

Cyprus - 2012 Report on trends and sources of zoonoses

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

	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) - carcase - at slaughterhouse - Surveillance	LCFAO		Official sampling	food sample > neck skin		Single	25 g	300	68	0	0
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance	LCFAO		Official sampling	food sample > meat		Single	25g	170	40	0	0
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	LCFAO		Official sampling	food sample > meat		Single	25g	3	2	0	0
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	LCFAO		Official sampling	food sample		Single	25g	145	20	0	0
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at retail - Surveillance	LCFAO		Official sampling	food sample		Single	25g	42	1	0	0
Meat from broilers (Gallus gallus) - minced meat - intended to be eaten cooked - at processing plant - Surveillance	LCFAO		Official sampling	food sample		Single	25g	15	0		
Meat from broilers (Gallus gallus) - minced meat - intended to be eaten cooked - at retail - Surveillance	LCFAO		Official sampling	food sample		Single	25g	5	0		
Meat from turkey - carcase - at slaughterhouse - Surveillance	LCFAO		Official sampling	food sample > neck skin		Single	25g	10	5		
Meat from turkey - fresh - at retail - Surveillance	LCFAO		Not applicable	food sample > meat		Single	25g	1	0		
Meat from broilers (Gallus gallus) - carcase - at slaughterhouse - Surveillance	LCFAO		Official sampling	food sample > meat	Domestic	Single	25g	80	5	0	0
Meat from broilers (Gallus gallus) - fresh - frozen - at border control - Surveillance	LCFAO		Official sampling	food sample		Single	25g	7	0	0	0

	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) - meat preparation - intended to be eaten cooked - frozen - at border control - Surveillance	LCFAO		Official sampling	food sample > meat		Single	25g	5	0	0	0
Meat from turkey - fresh - at slaughterhouse - Unspecified	LCFAO		Official sampling	food sample > meat		Single	25g	5	0	0	0
Meat from turkey - fresh - frozen - at border control	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Meat from turkey - meat preparation - intended to be eaten cooked - chilled	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Meat from turkey - meat products - cooked, ready-to -eat	LCFAO		Official sampling	food sample		Single	25g	20	0	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Anatum	S. Bredeney	S. Chester	S. Infantis	S. Kentucky	S. Paratyphi B	S. Virchow
Meat from broilers (Gallus gallus) - carcase - at slaughterhouse - Surveillance	0	0	25	5	5	5	10	0	3	15
Meat from broilers (Gallus gallus) - fresh - at processing plant - Surveillance	0	0	10	0	0	0	10	0	20	0
Meat from broilers (Gallus gallus) - fresh - at retail - Surveillance	0	0	0	0	0	0	0	2	0	0
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	0	0	10	0	0	0	10	0	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Anatum	S. Bredeney	S. Chester	S. Infantis	S. Kentucky	S. Paratyphi B	S. Virchow
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at retail - Surveillance	0	0	0	0	0	0	1	0	0	0
Meat from broilers (Gallus gallus) - minced meat - intended to be eaten cooked - at processing plant - Surveillance										
Meat from broilers (Gallus gallus) - minced meat - intended to be eaten cooked - at retail - Surveillance										
Meat from turkey - carcase - at slaughterhouse - Surveillance									5	
Meat from turkey - fresh - at retail - Surveillance										
Meat from broilers (Gallus gallus) - carcase - at slaughterhouse - Surveillance	0	0	0	5	0	0	0	0	0	0
Meat from broilers (Gallus gallus) - fresh - frozen - at border control - Surveillance	0	0	0	0	0	0	0	0	0	0
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - frozen - at border control - Surveillance	0	0	0	0	0	0	0	0	0	0
Meat from turkey - fresh - at slaughterhouse - Unspecified	0	0	0	0	0	0	0	0	0	0
Meat from turkey - fresh - frozen - at border control	0	0	0	0	0	0	0	0	0	0
Meat from turkey - meat preparation - intended to be eaten cooked - chilled	0	0	0	0	0	0	0	0	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	Other serovars	S. Anatum	S. Bredeney	S. Chester	S. Infantis	S. Kentucky	S. Paratyphi B	S. Virchow
Meat from turkey - meat products - cooked, ready-to -eat	0	0	0	0	0	0	0	0	0	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses made from cows' milk - hard - made from pasteurised milk	LCFAO		Official sampling	food sample	Intra EU trade	Single	25g	5	0	0	0
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	35	0	0	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample	Domestic	Single	25g	30	0	0	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	75	0	0	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	80	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	20	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample		Single	25g	25	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	345	0	0	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	340	0	0	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at retail	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample		Single	25g	105	0	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	510	0	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at retail	LCFAO		Official sampling	food sample		Single	25g	1	0	0	0
Dairy products (excluding cheeses) - butter - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0
Dairy products (excluding cheeses) - cream - made from pasteurised milk	LCFAO		Official sampling	food sample		Single	25g	15	0	0	0
Dairy products (excluding cheeses) - dairy products, not specified - made from pasteurised milk (It concerns Trachanas which is a traditional product made of pasteurized fermented milk and crashed wheat.)	LCFAO		Official sampling	food sample		Single	25g	65	0	0	0
Dairy products (excluding cheeses) - fermented dairy products	LCFAO		Official sampling	food sample		Single	25g	50	0	0	0
Dairy products (excluding cheeses) - ice-cream - made from pasteurised milk	LCFAO		Official sampling	food sample		Single	25g	5	0	0	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Dairy products (excluding cheeses) - yoghurt	LCFAO		Official sampling	food sample		Single	25g	430	0	0	0
Milk, cows' - raw milk - at farm	LCFAO		Official sampling	food sample	Domestic	Single	25g	6	1	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Montevideo
Cheeses made from cows' milk - hard - made from pasteurised milk	0	0	
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at farm	0	0	
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at farm	0	0	
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at processing plant	0	0	
Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant	0	0	

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Montevideo
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk	0	0	
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at farm	0	0	
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at processing plant	0		
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at retail	0	0	
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at farm	0	0	
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at retail	0	0	
Dairy products (excluding cheeses) - butter - made from pasteurised milk - at processing plant	0	0	0
Dairy products (excluding cheeses) - cream - made from pasteurised milk	0	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Montevideo
Dairy products (excluding cheeses) - dairy products, not specified - made from pasteurised milk (It concerns Trachanas which is a traditional product made of pasteurized fermented milk and crashed wheat.)	0	0	0
Dairy products (excluding cheeses) - fermented dairy products	0	0	0
Dairy products (excluding cheeses) - ice-cream - made from pasteurised milk	0	0	0
Dairy products (excluding cheeses) - yoghurt	0	0	0
Milk, cows' - raw milk - at farm	0	0	1

Table Salmonella in other food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Fish - smoked - at processing plant - Surveillance	LCFAO		Official sampling	food sample		Single	25g	40	0	0	0
Egg products - ready-to-eat - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	10	0	0	0
Eggs - raw material (liquid egg) for egg products - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	10	0	0	0
Fish - gravad /slightly salted - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	5	0	0	0
Fish - raw - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	20	0	0	0
Fish - raw - chilled - at retail	LCFAO		Official sampling	food sample	Unknown	Single	25g	2	0	0	0
Fish - raw - frozen - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	5	0	0	0
Fishery products, unspecified - non-ready-to-eat - frozen	LCFAO		Official sampling	food sample	Intra EU trade	Single	25g	5	0	0	0
Fishery products, unspecified - non-ready-to-eat - frozen - at border control	LCFAO		Official sampling	food sample	Imported from outside EU	Single	25g	25	0	0	0
Fishery products, unspecified - ready-to-eat - at border control - Surveillance	LCFAO		Official sampling	food sample	Imported from outside EU	Single	25g	5	0	0	0
Fishery products, unspecified - ready-to-eat - at border control - Surveillance ((Tuna))	LCFAO		Official sampling	food sample	Imported from outside EU	Single	25g	10	0	0	0
Meat from rabbit - fresh - at slaughterhouse	LCFAO		Official sampling	food sample	Domestic	Single	25g	91	5	0	0
Other food - at slaughterhouse - Surveillance	LCFAO		Official sampling	food sample	Domestic	Single	Swab	87	20	0	0
Other food of non-animal origin - Surveillance	LCFAO		Official sampling	feed sample	Unknown	Single	25g	285	8		

Table Salmonella in other food

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Bredeney	S. Cerro	S. Cubana	S. Mbandaka	S. Rissen	S. Senftenberg
Fish - smoked - at processing plant - Surveillance	0	0						
Egg products - ready-to-eat - at processing plant	0	0						
Eggs - raw material (liquid egg) for egg products - at processing plant	0	0						
Fish - gravad /slightly salted - at processing plant	0	0						
Fish - raw - at processing plant	0	0						
Fish - raw - chilled - at retail	0	0						
Fish - raw - frozen - at processing plant	0	0						
Fishery products, unspecified - non-ready-to-eat - frozen	0	0						
Fishery products, unspecified - non-ready-to-eat - frozen - at border control	0	0	0					
Fishery products, unspecified - ready-to-eat - at border control - Surveillance	0	0	0					
Fishery products, unspecified - ready-to-eat - at border control - Surveillance ((Tuna))	0	0	0					
Meat from rabbit - fresh - at slaughterhouse	0	5	0					
Other food - at slaughterhouse - Surveillance	0	15	5					
Other food of non-animal origin - Surveillance		1		1	1	3	1	1

Sample type Sample origin Sampling unit Total units Sampling Source of Sample S. Enteritidis Typhimurium Sampler Units tested positive for information strategy weight Salmonella Official and Meat from pig - fresh - at processing plant -**LCFAO** industry food sample Single 10g 305 0 0 0 Surveillance sampling Official Meat from pig - minced meat - intended to be eaten LCFAO food sample 195 0 0 0 Single 10g cooked - at processing plant - Surveillance sampling Official Meat from pig - minced meat - intended to be eaten **LCFAO** food sample Sinale 10a 115 0 0 0 cooked - at retail - Surveillance sampling Meat from pig - meat preparation - intended to be Official **LCFAO** 395 20 0 0 food sample Single 10g eaten cooked - at processing plant - Surveillance sampling Official Meat from pig - meat preparation - intended to be food sample **LCFAO** Single 10g 420 35 0 0 eaten cooked - at retail - Surveillance sampling Meat from pig - meat products - cooked, ready-to-Official LCFAO 275 0 0 0 food sample Single 25g eat - at processing plant - Surveillance sampling Official Meat from bovine animals - fresh - at processing **LCFAO** 0 food sample Single 10g 60 0 0 plant - Surveillance sampling Meat from bovine animals - minced meat - intended Official food sample to be eaten cooked - at processing plant -**LCFAO** Single 10g 20 0 0 0 sampling Surveillance Meat from bovine animals - minced meat - intended Official LCFAO to be eaten cooked - at retail - Surveillance food sample Sinale 10g 20 0 0 0 sampling Meat from bovine animals - meat preparation -Official LCFAO intended to be eaten cooked - at processing plant food sample Single 10g 65 0 0 0 sampling Surveillance

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Meat from bovine animals - meat preparation - intended to be eaten cooked - at retail - Surveillance	LCFAO		Official sampling	food sample		Single	10g	10	0	0	0
Meat from sheep - fresh - at processing plant - Surveillance	LCFAO		Official sampling	food sample		Single	10g	0	0	0	0
Meat from bovine animals - meat products - fermented sausages - at processing plant ((Pastourmas))	LCFAO		Official sampling	food sample	Domestic	Single	25g	25	5	0	0
Meat from bovine animals and pig - meat preparation - intended to be eaten cooked - at processing plant	LCFAO		Official sampling	food sample	Domestic	Single	10g	35	5	0	0
Meat from bovine animals and pig - meat preparation - intended to be eaten cooked - at retail	LCFAO		Official sampling	food sample	Domestic	Single	10g	5	0	0	0
Meat from goat - fresh - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Domestic	Single	10g	5	0	0	0
Meat from goat - meat products - at processing plant (traditional sausages and delicatesssen)	LCFAO		Official sampling	food sample	Domestic	Single	25g	10	0	0	0
Meat from pig - meat products - fermented sausages - at processing plant - Surveillance (traditional sausages and delicatessen)	LCFAO		Official sampling	food sample	Domestic	Single	25g	125	0	0	0
Meat from pig - meat products - fermented sausages - at retail - Surveillance (domestic/in-house production, traditional sausages and delicatessen)	LCFAO		Official sampling		Domestic	Single		35	0	0	0
Meat from pig - meat products - unspecified, ready- to-eat - at processing plant - Surveillance (Zalatina)	LCFAO		Official sampling		Domestic	Single		10	0	0	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Salmonella	S. Enteritidis	S. Typhimurium
Other products of animal origin	LCFAO		Official sampling		Unknown	Single		45	0	0	0

	S. 1,4,[5],12:i:	Salmonella spp., unspecified
		urispecified
Meat from pig - fresh - at processing plant - Surveillance	0	0
Meat from pig - minced meat - intended to be eaten cooked - at processing plant - Surveillance	0	0
Meat from pig - minced meat - intended to be eaten cooked - at retail - Surveillance	0	0
Meat from pig - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	0	20
Meat from pig - meat preparation - intended to be eaten cooked - at retail - Surveillance	0	35
Meat from pig - meat products - cooked, ready-to- eat - at processing plant - Surveillance	0	0
Meat from bovine animals - fresh - at processing plant - Surveillance	0	0
Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance	0	0
Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance	0	0

	S. 1,4,[5],12:i: -	Salmonella spp., unspecified
Meat from bovine animals - meat preparation - intended to be eaten cooked - at processing plant - Surveillance	0	0
Meat from bovine animals - meat preparation - intended to be eaten cooked - at retail - Surveillance	0	0
Meat from sheep - fresh - at processing plant - Surveillance	0	0
Meat from bovine animals - meat products - fermented sausages - at processing plant ((Pastourmas))	0	5
Meat from bovine animals and pig - meat preparation - intended to be eaten cooked - at processing plant	0	5
Meat from bovine animals and pig - meat preparation - intended to be eaten cooked - at retail	0	0
Meat from goat - fresh - at processing plant - Surveillance	0	0
Meat from goat - meat products - at processing plant (traditional sausages and delicatesssen)	0	0
Meat from pig - meat products - fermented sausages - at processing plant - Surveillance (traditional sausages and delicatessen)	0	0
Meat from pig - meat products - fermented sausages - at retail - Surveillance (domestic/in-house production, traditional sausages and delicatessen)	0	0

	÷,	S. 1,4,[5],12:i: -	Salmonella spp., unspecified
Meat from pig - meat products - unspecified, ready- to-eat - at processing plant - Surveillance (Zalatina))	0	0
Other products of animal origin)	0	0

Comments:

- 1) 70
- ²⁾ 25g
- ³⁾ 25g
- ⁴⁾ 25g

2.1.4 Salmonella in animals

A. Salmonella spp. in bovine animals

Monitoring system

Sampling strategy

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Case definition

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Vaccination policy

NO DATA AVAILABLE

Other preventive measures than vaccination in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

Cyprus - 2012 Report on trends and sources of zoonoses NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

B. Salmonella spp. in pigs

Monitoring system

Sampling strategy

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds at farm

NO DATA AVAILABLE

Fattening herds at slaughterhouse (herd based approach)

NO DATA AVAILABLE

Case definition

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds at farm

NO DATA AVAILABLE

Fattening herds at slaughterhouse (herd based approach)

NO DATA AVAILABLE

Vaccination policy

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds

NO DATA AVAILABLE

Other preventive measures than vaccination in place

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

Breeding herds

NO DATA AVAILABLE

Multiplying herds

NO DATA AVAILABLE

Fattening herds

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

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

Monitoring system

Sampling strategy

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Breeding flocks: Day-old chicks

NO DATA AVAILABLE

Breeding flocks: Rearing period

NO DATA AVAILABLE

Breeding flocks: Production period

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Case definition

Breeding flocks: Day-old chicks

NO DATA AVAILABLE

Breeding flocks: Rearing period

NO DATA AVAILABLE

Breeding flocks: Production period

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Vaccination policy

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Other preventive measures than vaccination in place

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

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

Monitoring system

Sampling strategy

Breeding flocks

NO DATA AVAILABLE

Type of specimen taken

Imported feed material of animal origin

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Case definition

Breeding flocks: Day-old chicks

NO DATA AVAILABLE

Breeding flocks: Rearing period

NO DATA AVAILABLE

Breeding flocks: Production period

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Vaccination policy

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Other preventive measures than vaccination in place

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

Breeding flocks

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

Breeding flocks

NO DATA AVAILABLE

Meat Production flocks

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

Cyprus - 2012 Report on trends and sources of zoonoses

NO DATA AVAILABLE

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

Monitoring system

Sampling strategy

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

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Case definition

NO DATA AVAILABLE

Monitoring system

Case definition

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Meat production flocks: Day-old chicks

NO DATA AVAILABLE

Meat production flocks: Rearing period

NO DATA AVAILABLE

Meat production flocks: Before slaughter at farm

NO DATA AVAILABLE

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Meat production flocks: At slaughter (flock based approach)

NO DATA AVAILABLE

Vaccination policy

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

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Other preventive measures than vaccination in place

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

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

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

NO DATA AVAILABLE

Meat production flocks

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

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, unspecified - adult - Control and eradication programmes	58	Animal Health and Welfare Division	Census	Official and industry sampling	environmenta I sample > boot swabs and dust	Domestic	no	Flock	58	11	2
	S. Hadar	S. Infantis	S. Typhimurium	S. Virchow	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Agona	S. Blockley	S. Bredeney	S. Kentucky	
Gallus gallus (fowl) - breeding flocks, unspecified - adult - Control and eradication programmes	0	1	0	0	2	0	1	1	1	3	

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	53	Animal Health and Welfare Division	Selective sampling	Official sampling	environmenta I sample > boot swabs and dust	Domestic	yes	Flock	51	20	4
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	11	Animal Health and Welfare Division	Selective sampling	Official sampling	environmenta I sample > boot swabs	Domestic	yes	Flock	16	7	0
Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes	3	Animal Health and Welfare Division	Selective sampling	Official sampling	environmenta I sample > boot swabs		yes	Flock	11	1	0

	S. Typhimurium	S. 1,4,[5],12:i: -	Salmonella spp., unspecified	S. Agona	S. Amsterdam	S. Blockley	S. Chester	S. Duisburg	S. Infantis	S. Kentucky	S. Livingstone
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes	3	0	0	1	1	2	0	1	2	0	2
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	0	0	0	0	0	1	1	0	0	4	0
Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes	0	0	1	0	0	0	0	0	0	0	0

	S. Mishmarhae mek	S. Tennessee	S. Virchow
Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes	1	0	3

Table Salmonella in other poultry

	S. Mishmarhae mek	S. Tennessee	S. Virchow
Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes	0	1	0
Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes	0	0	0

2.1.5 Salmonella serovars and phagetype distribution

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

Serovar		Cattle (bovir	ne animals)			Pig	js		Gallus gallus (fowl)				Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory									38	38	0	0	2
Number of isolates serotyped									38	38	0	0	1
Number of isolates per serovar													
S. 1,4,[5],12:i:-									2	2	0	0	0
S. Agona									2	2	0	0	0
S. Amsterdam									1	1	0	0	0
S. Blockley									4	4	0	0	0
S. Bredeney									1	1	0	0	0
S. Chester									1	1	0	0	0

Serovar		Cattle (bovir	ne animals)			Piç	gs		Gallus gallus (fowl)				Other poultry
Sources of isolates	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program	Monitoring	Clinical	Surveillance	Control program
Number of isolates in the laboratory									38	38	0	0	program 2
Number of isolates serotyped									38	38	0	0	1
Number of isolates per serovar													
S. Duisburg									1	1	0	0	0
S. Enteritidis									6	6	0	0	0
S. Haifa									0	0	0	0	1
S. Infantis									3	3	0	0	0
S. Kentucky									7	7	0	0	0 0 1 0 0
S. Livingstone									2	2	0	0	0
S. Mishmarhaemek									1	1	0	0	0
S. Tennessee									1	1	0	0	0
S. Typhimurium									3	3	0	0	0
S. Virchow									3	3	0	0	0

Serovar	Other poultry						
Sources of isolates	Monitoring	Clinical	Surveillance				
Number of isolates in the laboratory	2	0	0				
Number of isolates serotyped	2	0	0				
Number of isolates per serovar							
S. 1,4,[5],12:i:-	0	0	0				
S. Agona	0	0	0				
S. Amsterdam	0	0	0				
S. Blockley	0	0	0				
S. Bredeney	0	0	0				
S. Chester	0	0	0				
S. Duisburg	0	0	0				
S. Enteritidis	0	0	0				
S. Haifa	1	0	0				
S. Infantis	0	0	0				
S. Kentucky	1	0	0				

Serovar	Other poultry						
Sources of isolates	Monitoring	Clinical	Surveillance				
Number of isolates in the laboratory	2	0	0				
Number of isolates serotyped	2	0	0				
Number of isolates per serovar							
S. Livingstone	0	0	0				
S. Mishmarhaemek	0	0	0				
S. Tennessee	0	0	0				
S. Typhimurium	0	0	0				
S. Virchow	0	0	0				

Serovar	Meat fro anir	m bovine nals	Meat fr	om pig		n broilers gallus)		other poultry cies	Other products of animal origin		Coconut - coconut products		animal origin products		- intended to be eaten cooked	Cyprus - 2012 Re
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Report on trends		
Number of isolates in the laboratory	0	0	0	0	115	0	0	0	0	0	2	0	21	trend		
Number of isolates serotyped	0	0	0	0	115	0	0	0	0	0	2	0	21	s and		
Number of isolates per serovar														sourc		
Other serovars	0	0	0	0	35	0	0	0	0	0	2	0	10	and sources of zoonos		
S. Anatum	0	0	0	0	10	0	0	0	0	0	0	0	0	oonos		
S. Bredeney	0	0	0	0	5	0	0	0	0	0	0	0	0	es		
S. Cerro	0	0	0	0	0	0	0	0	0	0	0	0	0			
S. Chester	0	0	0	0	5	0	0	0	0	0	0	0	0			
S. Cubana	0	0	0	0	0	0	0	0	0	0	0	0	0			
S. Infantis	0	0	0	0	20	0	0	0	0	0	0	0	11			
S. Kentucky	0	0	0	0	2	0	0	0	0	0	0	0	0			

Serovar	Meat from bovine animals		Meat from pig		Meat from pig Meat from broilers (Gallus gallus) Meat from other poultry species Other products of animal origin products of animal origin					Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked	SD			
Sources of isolates	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Surveillance	Monitoring	Report on trends
Number of isolates in the laboratory	0	0	0	0	115	0	0	0	0	0	2	0	21	t on tr
Number of isolates serotyped	0	0	0	0	115	0	0	0	0	0	2	0	21	ends a
Number of isolates per serovar														and sources
S. Mbandaka	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Montevideo	0	0	0	0	0		0	0	0	0	0	0	0	of zoonoses
S. Paratyphi B	0	0	0	0	23	0	0	0	0	0	0	0	0	noses
S. Rissen	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Senftenberg	0	0	0	0	0	0	0	0	0	0	0	0	0	
S. Virchow	0	0	0	0	15	0	0	0	0	0	0	0	0	

Serovar	Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked
Sources of isolates	Surveillance
Number of isolates in the laboratory	
Number of isolates serotyped	0
Number of isolates per serovar	
Other serovars	0
S. Anatum	0
S. Bredeney	0
S. Cerro	0
S. Chester	0
S. Cubana	0
S. Infantis	0
S. Kentucky	0
S. Mbandaka	0

Serovar	Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked
Sources of isolates	Surveillance
Number of isolates in the laboratory	
Number of isolates serotyped	0
Number of isolates per serovar	
S. Montevideo	0
S. Paratyphi B	0
S. Rissen	0
S. Senftenberg	0
S. Virchow	0

2.1.6 Antimicrobial resistance in Salmonella isolates

A. Antimicrobial resistance in Salmonella in cattle

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

Cyprus - 2012 Report on trends and sources of zoonoses

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DÁTA AVAILABLE

Additional information

NO DATA AVAILABLE

B. Antimicrobial resistance in Salmonella in pigs

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

C. Antimicrobial resistance in Salmonella in poultry

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Cyprus - 2012 Report on trends and sources of zoonoses

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

D. Antimicrobial resistance in Salmonella in foodstuff derived from cattle

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

Cyprus - 2012 Report on trends and sources of zoonoses

NO DATA AVAILABLE

E. Antimicrobial resistance in Salmonella in foodstuff derived from pigs

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

F. Antimicrobial resistance in Salmonella in foodstuff derived from poultry

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Relevance of the findings in animals to findings in foodstuffs and to human cases (as a source of infection)
NO DATA AVAILABLE

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Table Antimicrobial susceptibility testing of Salmonella in Turkeys

Salmonella	S. Ent	eritidis	S. Typh	imurium	S. 1,4,[5],12:i:-	S. A	gona	S. Ker	ntucky	S. Ne	wport	S. Sai	intpaul	Salmon	ella spp.
Isolates out of a monitoring program (yes/no)	y€	es	у	es	y.	es							y	es	yı	es
Number of isolates available in the laboratory	()		0		0								0	:	2
Antimicrobials:	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n
Aminoglycosides - Gentamicin															2	2
Aminoglycosides - Streptomycin															2	2
Amphenicols - Chloramphenicol															2	0
Cephalosporins - 3rd generation cephalosporins															2	1
Fluoroquinolones - Ciprofloxacin															2	2
Penicillins - Ampicillin															2	2
Quinolones - Nalidixic acid															2	2
Sulfonamides															2	2
Tetracyclines - Tetracycline															2	2
Trimethoprim															2	0
Fully sensitive															2	0
Resistant to 1 antimicrobial															2	0
Resistant to 2 antimicrobials															2	0
Resistant to 3 antimicrobials															2	0
Resistant to 4 antimicrobials															2	0
Resistant to >4 antimicrobials															2	2

Table Antimicrobial susceptibility testing of Salmonella in Gallus gallus (fowl) - laying hens

Salmonella	S. Ent	teritidis	S. Typh	imurium	S. 1,4,[5],12:i:-	S. A	gona	S. Vir	chow	S. H	adar	S. Ke	ntucky	S. In	fantis	Salmone	ella spp.
Isolates out of a monitoring program (yes/no)	у	es	y	es	y	es											ye	es
Number of isolates available in the laboratory		4	:	3)											1:	3
Antimicrobials:	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n
Aminoglycosides - Gentamicin	4	0	3	1													13	1
Aminoglycosides - Streptomycin	4	0	3	2													13	3
Amphenicols - Chloramphenicol	4	0	3	1													13	0
Cephalosporins - 3rd generation cephalosporins	4	0	3	0													13	0
Fluoroquinolones - Ciprofloxacin	4	0	3	2													13	2
Penicillins - Ampicillin	4	0	3	2													13	2
Quinolones - Nalidixic acid	4	0	3	2													13	2
Sulfonamides	4	0	3	2													13	1
Tetracyclines - Tetracycline	4	1	3	2													13	2
Trimethoprim	4	0	3	0													13	2
Fully sensitive	4	3	3	1													13	8
Resistant to 1 antimicrobial	4	1	3	0													13	2
Resistant to 2 antimicrobials	4	0	3	0													13	1
Resistant to 3 antimicrobials	4	0	3	0													13	1
Resistant to 4 antimicrobials	4	0	3	0													13	0
Resistant to >4 antimicrobials	4	0	3	2													3	1
Number of multiresistant S. Typhimurium - with penta resistance			3	0														
Number of multiresistant S. Typhimurium - resistant to other antimicrobials			3	0														

Table Antimicrobial susceptibility testing of Salmonella in Gallus gallus (fowl) - broilers

Salmonella	S. Ent	teritidis	S. Typh	imurium	S. 1,4,[5],12:i:-	S. J	lava	S. A	gona	S. Vir	chow	S. H	adar	S. Kei	ntucky	S. In	fantis	Salmon	ella spp	S. Para	ıtyphi B
Isolates out of a monitoring program (yes/no)	у	es	у	es	y	es													ye	es	y€	es
Number of isolates available in the laboratory																				7		
Antimicrobials:	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n	N	n
Aminoglycosides - Gentamicin																			7	6		
Aminoglycosides - Streptomycin																			7	6		
Amphenicols - Chloramphenicol																			7	0		
Cephalosporins - 3rd generation cephalosporins																			7	1		
Fluoroquinolones - Ciprofloxacin																			7	7		
Penicillins - Ampicillin																			7	6		
Quinolones - Nalidixic acid																			7	6		
Sulfonamides																			7	6		
Tetracyclines - Tetracycline																			7	6		
Trimethoprim																			7	1		
Fully sensitive																			7	0		
Resistant to 1 antimicrobial																			7	1		
Resistant to 2 antimicrobials																			7	0		
Resistant to 3 antimicrobials																			7	0		
Resistant to 4 antimicrobials																			7	0		
Resistant to >4 antimicrobials																			7	6		

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

Test Method Used		
Broth dilution		
Broth dilution		

Standard methods used for testing
NCCLS/CLSI EUCAST

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

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

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

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

Test Method Used	Standard methods used for testing	
		ĺ

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

2.2 CAMPYLOBACTERIOSIS

2.2.1 General evaluation of the national situation

A. Thermophilic Campylobacter general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.2.2 Campylobacteriosis in humans

A. Thermophilic Campylobacter in humans

Reporting system in place for the human cases

YES SINCE JANUARY 2005

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY RECOMMENDED CRITERIA FOR DIAGNOSIS

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND THEIR AMENDMENTS. MANDATORY NOTIFIABLE SINCE JANUARY 2005

History of the disease and/or infection in the country

NOT APPLICABLE

Results of the investigation

NOT APPLICABLE

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

NOT APPLICABLE

Relevance as zoonotic disease

IT HAS RECENTLY BEEN DECLARED MANDATORY NOTIFIABLE DISEASE AND THEREFORE NO DATA ARE AVAILABLE FOR 2004.

Additional information

The relevant data for 2011 will be submitted by the colleagues of the Ministry of Health through the ECDC network.

2.2.3 Campylobacter in foodstuffs

A. Thermophilic Campylobacter in Broiler meat and products thereof

Monitoring system

Sampling strategy

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Definition of positive finding

At slaughterhouse and cutting plant

NO DATA AVAILABLE

At meat processing plant

NO DATA AVAILABLE

At retail

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.2.4 Campylobacter in animals

A. Thermophilic Campylobacter in Gallus gallus

Monitoring system

Sampling strategy

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Rearing period

NO DATA AVAILABLE

Before slaughter at farm

NO DATA AVAILABLE

At slaughter

NO DATA AVAILABLE

Case definition

Rearing period

NO DATA AVAILABLE

Before slaughter at farm

NO DATA AVAILABLE

At slaughter

NO DATA AVAILABLE

Vaccination policy

NO DATA AVAILABLE

Other preventive measures than vaccination in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.2.5 Antimicrobial resistance in Campylobacter isolates

A. Antimicrobial resistance in Campylobacter jejuni and coli in cattle

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

B. Antimicrobial resistance in Campylobacter jejuni and coli in foodstuff derived from cattle

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

C. Antimicrobial resistance in Campylobacter jejuni and coli in foodstuff derived from pigs

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

D. Antimicrobial resistance in Campylobacter jejuni and coli in foodstuff derived from poultry

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

E. Antimicrobial resistance in Campylobacter jejuni and coli in pigs

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

F. Antimicrobial resistance in Campylobacter jejuni and coli in poultry

Sampling strategy used in monitoring

Frequency of the sampling

NO DATA AVAILABLE

Type of specimen taken

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

NO DATA AVAILABLE

Procedures for the selection of isolates for antimicrobial testing

NO DATA AVAILABLE

Methods used for collecting data

NO DATA AVAILABLE

Laboratory methodology used for identification of the microbial isolates

NO DATA AVAILABLE

Laboratory used for detection for resistance

Antimicrobials included in monitoring

NO DATA AVAILABLE

Cut-off values used in testing

NO DATA AVAILABLE

Preventive measures in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

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

Test Method Used	Standard methods used for testing

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

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

Test Method Used	Standard methods used for testing

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

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

Test Method Used	Standard methods used for testing

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

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

Test Method Used	Standard methods used for testing

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

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

Test Method Used	Standard methods used for testing

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

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

Test Method Used	Standard methods used for testing

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

2.3 LISTERIOSIS

2.3.1 General evaluation of the national situation

A. Listeriosis general evaluation

History of the disease and/or infection in the country

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.3.2 Listeriosis in humans

A. Listeriosis in humans

Reporting system in place for the human cases

YES, SINCE JANUARY 2005

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY CRITERIA

Notification system in place

QUARANTINE (PUBLIC HEALTH) LAW AND REGULATIONS AND THEIR AMENDMENTS. MANDATORY NOTIFIABLE SINCE JANUARY 2005

History of the disease and/or infection in the country

NOT APPLICABLE

Results of the investigation

NOT APPLICABLE

National evaluation of the recent situation, the trends and sources of infection NOT APPLICABLE

Relevance as zoonotic disease

IT HAS RECENTLY BEEN DECLARED AS A MANDATORY NOTIFIABLE DISEASE AND THEREFORE NO DATA ARE AVAILABLE FOR 2004.

Additional information

The report of these data will be done by the colleagues of the Ministry of Health through the ECDC database network.

2.3.3 Listeria in foodstuffs

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es	Units tested with detection method	Listeria monocytogen es presence in x g
Cheeses made from cows' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	35	0	35	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	75	0	75	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at retail - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	85	0	85	0
Dairy products (excluding cheeses) - butter - made from pasteurised milk - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	5	0	5	0
Dairy products (excluding cheeses) - cream - made from pasteurised milk - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25ml	15	0	15	0
Cheeses made from cows' milk - hard - made from pasteurised milk	LCFAO		Official sampling	food sample	Intra EU trade	Single	25g	5	0	5	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample	Domestic	Single	25g	30	0	30	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample	Domestic	Single	25g	5	0	5	0
Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	20	0	20	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es	Units tested with detection method	Listeria monocytogen es presence in x g
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk	LCFAO		Official sampling	food sample	Intra EU trade	Single	25g	5	0	5	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample	Domestic	Single	25g	20	0	20	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample	Domestic	Single	25g	345	0	345	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	340	0	340	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at retail	LCFAO		Official sampling	food sample	Unknown	Single	25g	5	0	5	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at farm	LCFAO		Official sampling	food sample	Unknown	Single	25g	105	0	105	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at processing plant	LCFAO		Official sampling	food sample	Unknown	Single	25g	510	0	510	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at retail	LCFAO		Not applicable	food sample	Unknown	Single	25g	1	0	1	0
Dairy products (excluding cheeses) - fermented dairy products - at processing plant - Surveillance ((In-house/Domestic production))	LCFAO		Official sampling	food sample	Unknown	Single	25ml	50	0	50	0

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight		Total units positive for L. monocytogen es		Listeria monocytogen es presence in x g
Dairy products (excluding cheeses) - ice-cream - made from pasteurised milk	LCFAO		Official sampling	food sample	Intra EU trade	Single	25g	5	0	5	0
Dairy products (excluding cheeses) - yoghurt - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	430	0	430	0
Dairy products, unspecified - at processing plant - Surveillance (Trachanas,traditional product made of fermented milk and crushed wheat)	LCFAO		Official sampling	food sample	Domestic	Single	25g	70	0	70	0
Milk, goats' - raw milk - at farm	LCFAO		Official sampling	animal sample > milk	Domestic	Batch	25ml	1	0	1	0
Milk, sheep's - raw milk	LCFAO		Official sampling	animal sample > milk	Domestic	Batch	25ml	5	0	5	0

	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 pasteurised milk - at processing plant - Surveillance	0	0	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at processing plant - Surveillance	0	0	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at retail - Surveillance	0	0	0
Dairy products (excluding cheeses) - butter - made from pasteurised milk - at processing plant - Surveillance	0	0	0

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Dairy products (excluding cheeses) - cream - made from pasteurised milk - at processing plant - Surveillance	0	0	0
Cheeses made from cows' milk - hard - made from pasteurised milk	0	0	0
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk - at farm	0	0	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk - at farm	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at farm	0	0	0
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at processing plant	0	0	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk - at retail	0	0	0

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at farm	0	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at processing plant	0	0	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk - at retail	0	0	0
Dairy products (excluding cheeses) - fermented dairy products - at processing plant - Surveillance ((In-house/Domestic production))	0	0	0
Dairy products (excluding cheeses) - ice-cream - made from pasteurised milk	0	0	0
Dairy products (excluding cheeses) - yoghurt - Surveillance	0	0	0
Dairy products, unspecified - at processing plant - Surveillance (Trachanas,traditional product made of fermented milk and crushed wheat)	0	0	0
Milk, goats' - raw milk - at farm	0	0	0
Milk, sheep's - raw milk	0	0	0

Table Listeria monocytogenes in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for L. monocytogen es	Units tested with detection method	Listeria monocytogen es presence in x g
Meat from pig - meat products - cooked, ready-to- eat - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	275	0	275	0
Fish - smoked - at processing plant - Surveillance	LCFAO		Official sampling	food sample	Unknown	Single	25g	45	0	45	0
Fish - marinated - at processing plant	LCFAO		Official sampling	feed sample	Unknown	Single	25g	5	0	5	0
Fish - raw - at retail	LCFAO		Not applicable	food sample	Unknown	Single	25g	2	0	2	0
Fishery products, unspecified - non-ready-to-eat - frozen - at border control - Surveillance	LCFAO		Official sampling	food sample	Imported from outside EU	Single	25g	20	0	20	0
Fishery products, unspecified - ready-to-eat (Tuna fish)	LCFAO		Official sampling	food sample	Unknown	Single	25g	10	0	10	0
Fishery products, unspecified - ready-to-eat - at border control - Surveillance (Chaviar)	LCFAO		Official sampling	food sample	Imported from outside EU	Single	25g	5	0	5	0
Meat from bovine animals - meat products - fermented sausages - at processing plant - Surveillance (Traditional sausages, Pastourmas)	LCFAO		Official sampling	food sample	Unknown	Single	25g	25	5	25	5
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - frozen - at border control - Surveillance	LCFAO		Official sampling	food sample	Domestic	Single	25g	5	0	5	0
Meat from goat - meat products - at processing plant - Surveillance (Traditional sausages and delicatessen)	LCFAO		Official sampling	food sample	Unknown	Single	25g	10	0	10	0
Meat from pig - meat products - fermented sausages - at processing plant - Surveillance (Traditional sausages and delicatessen)	LCFAO		Official sampling	food sample	Unknown	Single	25g	125	30	125	30

Table Listeria monocytogenes in other foods

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight		INOSITIVA TOT I	IVAZITA ABTACTION	Listeria monocytogen es presence in x g
Meat from pig - meat products - unspecified, ready- to-eat - at processing plant - Surveillance (Zalatina)	LCFAO		Official sampling	food sample	Unknown	Single	25g	10	0	10	0
Meat from pig - meat products - unspecified, ready- to-eat - at retail - Surveillance (Traditional sausages)	LCFAO		Official sampling	food sample	Unknown	Single	25g	35	0	35	0
Meat from turkey - meat products - cooked, ready-to -eat - chilled	LCFAO		Official sampling	food sample	Unknown	Single	25g	20	0	20	0

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from pig - meat products - cooked, ready-to- eat - at processing plant - Surveillance	0	0	0
Fish - smoked - at processing plant - Surveillance	0	0	0
Fish - marinated - at processing plant	0	0	0
Fish - raw - at retail	0	0	0
Fishery products, unspecified - non-ready-to-eat - frozen - at border control - Surveillance	0	0	0
Fishery products, unspecified - ready-to-eat (Tuna fish)	0	0	0
Fishery products, unspecified - ready-to-eat - at border control - Surveillance (Chaviar)	0	0	0

Table Listeria monocytogenes in other foods

	Units tested with enumeration method	> detection limit but <= 100 cfu/g	L. monocytogen es > 100 cfu/g
Meat from bovine animals - meat products - fermented sausages - at processing plant - Surveillance (Traditional sausages, Pastourmas)	5	5	0
Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - frozen - at border control - Surveillance	0	0	0
Meat from goat - meat products - at processing plant - Surveillance (Traditional sausages and delicatessen)	0	0	0
Meat from pig - meat products - fermented sausages - at processing plant - Surveillance (Traditional sausages and delicatessen)	0	0	0
Meat from pig - meat products - unspecified, ready- to-eat - at processing plant - Surveillance (Zalatina)	0	0	0
Meat from pig - meat products - unspecified, ready- to-eat - at retail - Surveillance (Traditional sausages)	0	0	0
Meat from turkey - meat products - cooked, ready-to -eat - chilled	0	0	0

2.4 E. COLI INFECTIONS

2.4.1 General evaluation of the national situation

A. Verotoxigenic Escherichia coli infections general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.4.2 E. coli infections in humans

A. Verotoxigenic Escherichia coli infections in humans

Reporting system in place for the human cases

YES. SINCE JANUARY 2005 FOLLOWING AMENDMENT OF THE LEGISLATION

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY DIAGNOSIS

Notification system in place

QUARANTINE (PUBLIC HEALTH)LAW AND REGULATIONS AND THEIR AMENDMENTS.NOTIFIABLE SINCE JANUARY 2005

History of the disease and/or infection in the country

NOT APPLICABLE

Results of the investigation

NOT APPLICABLE

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

NOT APPLICABLE

Additional information

The relevant data will be submitted by the colleagues of the Ministry of Health through the ECDC network.

2.4.3 Escherichia coli, pathogenic in foodstuffs

Table VT E. coli in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Sample weight	Units tested	Total units positive for Verotoxigenic E. coli (VTEC)	Verotoxigenic E. coli (VTEC) - VTEC 0157
Meat from bovine animals - fresh - frozen - at border control - Surveillance	LCFAO		Official sampling	food sample	Imported from outside EU	ISO 16654:2001	Single	25g	1	0	0

	Verotoxigenic E. coli (VTEC) - VTEC non- O157	Verotoxigenic E. coli (VTEC) - VTEC, unspecified
Meat from bovine animals - fresh - frozen - at border control - Surveillance	0	0

2.4.4 Escherichia coli, pathogenic in animals

A. Verotoxigenic Escherichia coli in cattle (bovine animals)

Monitoring system

Sampling strategy

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Case definition

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Vaccination policy

NO DATA AVAILABLE

Other preventive measures than vaccination in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

Results of the investigation

NO DATA AVAILABLE

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National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information NO DATA AVAILABLE

2.5 TUBERCULOSIS, MYCOBACTERIAL DISEASES

2.5.1 General evaluation of the national situation

A. Tuberculosis general evaluation

History of the disease and/or infection in the country

Tuberculin test campaigns have been applied since 1970 on all bovines over the age of six months. No case of TB has been found in Cyprus since 1970.

Since 1986 tuberculin test had been applied only on bovines over the age of 24 months. Records indicate that tests on herd level were performed during the following periods: 1982-83, 1986-87-88, 1994-95, and 2000-2001. The records proved that the animals which had initially reacted positively or inconclusively to the tuberculin test were retested according to the provisions of Directive 64/432/EEC and all proved to be negative. Animals to enter the herds did not require testing for tuberculosis as these animals were originating from herds located in the territory of Cyprus in which the Government of the Republic of Cyprus exercises its effective control; thus regularly tested for TB. All slaughtered animals and their carcasses are necrotomically checked, prior been given to the meat industry for human consumption, for possible presence of TB lesions.

An island wide tuberculin test campaign began in 2004 according to Directive 64/432/EEC provisions.

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

At the end of 2012, 277 holdings have had the Bovine Tuberculosis Officially Free Status. The target number of holdings was 309.

Recent actions taken to control the zoonoses

The national tuberculin test campaign which had begun in August 2004 according to Directive 64/432/EEC provisions continues. This program aims to examine all bovines over the age of six weeks and to assign to all the herds the Officially Free Status.

2.5.2 Tuberculosis, mycobacterial diseases in humans

A. Tuberculosis due to Mycobacterium bovis in humans

Reporting system in place for the human cases

YES, SINCE 1932.

Case definition

EU RECOMMENDED CASE DEFINITION.

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY DIAGNOSTIC CRITERIA.

Notification system in place

QUARANTINE (PUBLIC HEALTH) LAW AND REGULATIONS AND THEIR AMENDMENTS.

History of the disease and/or infection in the country

BOVINE TB HAS NOT BEEN A PROBLEM FOR HUMANS IN CYPRUS.

Relevance as zoonotic disease

THOUGH BOVINE TUBERCULOSIS IS NOT A PROBLEM IN HUMANS IN CYPRUS, WE RECOGNISE THE NEED FOR CONTINUOUS COLLABORATION IN THE AREA WITH THE VETERINARY SERVICES AS WELL AS ACTIVE SURVEILLANCE.

Additional information

The updated data for TB in humans for 2012 will be furnished by the colleagues of the Ministry of Health through the ECDC.

2.5.3 Mycobacterium in animals

A. Mycobacterium bovis in bovine animals

Status as officially free of bovine tuberculosis during the reporting year

The entire country free

At the end of 2012, 277 holdings have had the Bovine Tuberculosis Officially Free Status (BTBOFS). The target number of holdings was 309.

Monitoring system

Sampling strategy

All animals above the age of six weeks are tested for TB. In order a holding to be assigned the BTBOFS, its animals must undergo two consecutive tuberculin tests within a minimum of a six month time interval. A holding retains its BTBOFS if all its animals above six weeks of age are subjected to tuberculin testing every year or every two years.

Frequency of the sampling

Bovines above six weeks of age must undergo two consecutive tuberculin tests within a minimum period of a six month time interval. A holding retains its BTBOFS if all its animals are subjected to tuberculin test every year. When a region is declared as Officially Free, then its holdings are tested every two years.

Type of specimen taken

Tuberculosis skin reaction.

Methods of sampling (description of sampling techniques)

As described in Annex A of the Council Directive 64/432/EEC.

Case definition

If an animal yields a non-negative reaction to the single intradermal test it is further examined with the comparative intradermal test (Bovine and Avian tuberculin).

If it yields a non-negative reaction to the second test it is considered positive; the animal is slaughtered, necrotomically examined for tuberculosis lesions and samples are taken for laboratory in order to detect M. bovis.

Diagnostic/analytical methods used

- 1) Single and comparative Tuberculin skin tests (Bovine and Avian tuberculin)
- Post-mortem examination.
- 3) Microbiological examination.

Vaccination policy

Cyprus - 2012 Report on trends and sources of zoonoses

No vaccination is applied in Cyprus.

Following the completion of the first tuberculin test no animal over six weeks old is allowed to enter the herd, unless it reacts negatively to an intradermal tuberculin test carried out either 30 days prior to the movement or 30 days after its introduction into the herd.

Other preventive measures than vaccination in place

Following the completion of the first tuberculin test no animal over six weeks old is allowed to enter the herd, unless it reacts negatively to an intradermal tuberculin test carried out either 30 days prior to the movement or 30 days after its introduction into the herd.

Control program/mechanisms

The control program/strategies in place

The control program aims to examine all bovines over the age of six weeks according to the provisions of Directive 64/432/EEC. The main objective of the program is to assign to bovine herds the BTBOFS.

Recent actions taken to control the zoonoses

Testing, monitoring and surveillance.

Measures in case of the positive findings or single cases

The animal is slaughtered and samples are taken for the laboratory (microbiological) isolation of M. bovis. Movement restrictions are imposed on the herd and the milk must be pasteurized.

If the presence of tuberculosis is not confirmed laboratorily, the already applied movement restrictions are lifted following a negative test applied on all animals over six weeks of age. The test is conducted at least 42 days after the removal of the reactors animals.

On the other hand if tuberculosis is laboratorily confirmed, movement restrictions are lifted when cleansing and disinfection of the premises and utensils has been completed and all animals over six weeks of age have reacted negatively to at least two consecutive tuberculin tests. The first one conducted not less than 60 days and the second not less than four months and no more than 12 after the removal of the last positive animal.

Notification system in place

It has always been a notifiable in Cyprus and any occurrence of the disease is obligatory notifiable to the Veterinary Services by law. No case has been reported since 1928.

Results of the investigation

At the end of 2012, 277 holdings were bearing the BTBOFS. The target number of holdings was 309.

B. Mycobacterium bovis in farmed deer

Monitoring system

Sampling strategy

Not applied as no deer farming is practiced in Cyprus.

Frequency of the sampling

Not applied.

Methods of sampling (description of sampling techniques)

Not applied.

Case definition

Not applied.

Diagnostic/analytical methods used

Not applied.

Vaccination policy

Not applied.

Other preventive measures than vaccination in place

Not applied.

Control program/mechanisms

The control program/strategies in place

Not applied.

Recent actions taken to control the zoonoses

Not applied.

Suggestions to the European Union for the actions to be taken

Not applied.

Measures in case of the positive findings or single cases

Not applied.

Notification system in place

Not applied.

Results of the investigation

Not applied.

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

Not applied.

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

Not applied.

Additional information

Not applied.

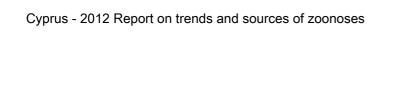


Table Bovine tuberculosis in countries and regions that do not receive Community co-financing for eradication programmes

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

	Total number o	f existing bovine	Officially t	free herds	Infecte	d herds	Routine tube	rculin testing	Number of tuberculin tests carried out before the introduction	Number of animals with suspicious lesions of	Number of animals detected
Region	Herds	Animals	Number of herds	%	Number of herds	%	Interval between routine tuberculin tests	Number of animals tested	into the herds (Annex A(I)(2)(c) third indent (1) of Directive 64/432/EEC)	tuberculosis examined and	positive in bacteriological examination
¹⁾ Κύπρος / Kıbrıs	309	53686	277	89.64	0	0	The officially TB free herds	47380			
Total :	309	53686	277	89.64	0	0	N.A.	47380	0	0	0

Comments:

1) All Districts

²⁾ N.A.

Footnote:

As regards Tuberculosis disease, the total number of existing bovine herds and existing bovines refers to the herds and animals been under the Tuberculosis control program.

2.6 BRUCELLOSIS

2.6.1 General evaluation of the national situation

A. Brucellosis general evaluation

History of the disease and/or infection in the country

The causative agent of brucellosis in Cyprus at both bovine and sheep / goats is Brucella melitensis. Brucellosis caused by Brucella abortus has never been diagnosed in Cyprus (with the exception of the period 1921 to 1932, when it was imported in the island by cattle that were brought from the U.K.). As of 2001 a brucellosis eradication programme is applied on the area controlled by the Veterinary Services of the Republic of Cyprus.

Evolution of Brucellosis in Cyprus:

1930 to 1932

Brucellosis was found in goats imported from Malta (no spread)

1964

One outbreak in a bovine herd

1970 to 1973

Sporadic outbreaks

1973 to 1985

National Eradication program against Brucellosis

Successful test and slaughter eradication campaign

1985 1997

No outbreaks of the disease

1997 to 2000

Reappearance of the disease

2001

Beginning of Brucellosis Eradication and Elimination Project

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

According to the epidemiological data, from 2000 until the end of 2009, the prevalence and incidence of bovine, as well as, ovine and caprine brucellosis in Cyprus have decreased dramatically.

Possible sources of infection in a herd or a flock are:

A-the neighboring with known infected farms (most common)

Â-common use of machines

Â-illegal movements of animals from known infected farms

A-sharing of pasture

·mechanical vectors (e.g. lorries of traders)

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

There were no human cases of brucellosis during 2009.

Recent actions taken to control the zoonoses

The brucellosis eradication programme is applied at the area controlled by the Veterinary Services of the Republic of Cyprus as of 2001.

2.6.2 Brucellosis in humans

A. Brucellosis in humans

Reporting system in place for the human cases

YES, SINCE 1983

Case definition

EU RECOMMENDED CASE DEFINITION SINCE JANUARY 2004

Diagnostic/analytical methods used

EU RECOMMENDED MICROBIOLOGY LABORATORY DIAGNOSTIC CRITERIA SINCE JANUARY 2004

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND AMENDMENTS. MANDATORY NOTIFIABLE.

History of the disease and/or infection in the country

SPORADIC CASES OF BRUCELLOSIS WERE REPORTED OVER THE YEARS. THE ONLY CASE IN 2004 WAS OCCUPATION RELATED

Relevance as zoonotic disease

SPORADIC CASES OF BRUCELLOSIS WERE REPORTED OVER THE YEARS. THERE IS A CONTINUOUS COLLABORATION WITH THE VETERINARY SERVICES, AS ON THE AREA CONTROLLED BY THE VETERINARY SERVICES OF THE REPUBLIC OF CYPRUS. A BRUCELLOSIS ERADICATION PROGRAMME IS IN PLACE AS OF 2001. CLINICIANS ARE ALERTED ABOUT THE POSSIBILITY OF DIAGNOSIS AND A SYSTEM FOR SURVEILLANCE IS IN PLACE

Additional information

Te data concerning the human cases of Brucellosis will be registered by the colleagues of the Ministry of health through the ECDC network.

2.6.3 Brucella in animals

A. Brucella abortus in bovine animals

Status as officially free of bovine brucellosis during the reporting year
The entire country free
Not Applicable

Free regions

Monitoring system
Frequency of the sampling

Vaccination policy

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B. Brucella melitensis in goats

Status as officially free of caprine brucellosis during the reporting year
The entire country free
Not Applicable

Vaccination policy

Vaccination is prohibited

C. Brucella melitensis in sheep

Status as officially free of ovine brucellosis during the reporting year
The entire country free
Not Applicable

D. B. melitensis in animal - Cattle (bovine animals)

Monitoring system

Sampling strategy

At infected and suspected herds sampling is targeted.

Concerning the other herds; sampling is part of a permanent monitoring scheme.

Samples are collected at farm level, by the employees of the Veterinary Services.

Frequency of the sampling

Infected farms: Monthly blood sampling of all animals over 12 months. Cultures from milk samples from the seropositive animals in new outbreaks and from fetuses (in any case of abortion)

Non infected farms: Cultures from milk samples and fetuses from aborting animals. Bulk milk samples every 3 months from all herds having more than 10 dairy cows. Blood sampling of all animals over 12 months old once a year in non officially free herds.

Farms with less than 10 individuals over 12 months old: Blood sampling of all animals over 12 months old twice a year in non officially free herds. For officially free herds blood sampling of all animals over 12 months old once a year.

Type of specimen taken

Blood, Milk, Fetuses

Methods of sampling (description of sampling techniques)

Blood samples are taken by venipuncture from the caudal vein. Blood is collected in tubes (4 ml). Milk is collected in screw cup bottles (30 ml). Samples are stored at 2-40C, for one week at the most for blood samples and 2-3 days for milk samples.

Case definition

As a positive case is defined a case when an animal reacts positively at Rose Bengal test and CFT test (> 20 ICFTU).

Diagnostic/analytical methods used

All materials, reagents and procedures used are based to the relevant EEC legislation (Dir 91/68/EEC and 64/432/EEC) and the OIE Manual of diagnostic tests and vaccines for terrestrial animals (mammals, birds and bees) 5th ed, 2004.

Bulk milk ELISA: Commercially available kits are used that fulfill the requirements of the references mentioned above. The procedures used are according to the manufacturers directions.

Rose Bengal test: 30 11/41 of serum and antigen are mixed on tiles to produce a zone of appr 2 cm. The mixture is rocked using a rotating shaker for 4 min and then observed for agglutination. Any degree of agglutination is considered positive. In each day test a positive and a negative control is used. The Rose Bengal antigen is commercially purchased and is manufactured according to the specifications given in the above mentioned references.

Complement fixation test: Dilution of serum starts from $\hat{A}\frac{1}{4}$ until 1/256, sera are inactivated in water bath in tubes and then transferred to 96 well U micro plates. Warm fixation follows. All reagents are commercially purchased and each time the batch or the company changes titration of the reagents takes place. In each day test controls of complement, antigen, blood as well as positive and negative controls are used. Also, for each sample examined there is anticomplimentary control.

Isolation: On Brucella medium incubating in 37oC with and without CO2. Confirmation on the species

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level: Dye of the colony with Gram and Stamp. Culture on Mc Conkey agar (lactose fermentation) and Blood agar (Haemolysis).

Vaccination policy

VACCINATION IS PROHIBITED

Other preventive measures than vaccination in place

All movements of animals should be reported and registered on a central database and are allowed only after a brucellosis negative serological examination.

Control program/mechanisms

The control program/strategies in place

The bovine brucellosis eradication program is based on a test and extended slaughter or killing of positive animals or positive herds, implemented in the areas of Cyprus which can be controlled by the Government of Cyprus and in which respectively the Veterinary Services exercise their effective control. The target population of the program is all bovine animals over 12 months old. The Veterinary Services, which belong to the Ministry of Agriculture, Environment and Natural Resources, is responsible for the application of the bovine brucellosis eradication program. The Director of the Veterinary Services is responsible for coordinating the whole program. In 2004, 2005, 2006, 2007 and 2008 the EU has co-financed 50% of the program cost. All the measures taken are according to Directive 64/432/EEC.

Recent actions taken to control the zoonoses

Application of brucellosis eradication program.

Measures in case of the positive findings or single cases

Once there is a confirmation of a positive case:

- a. The farm is placed under movement restrictions.
- b. The milk collecting Organizations are notified so as the milk originating from the infected farms to be collected in separate milk tanks for pasteurization.
- c. Seropositive bovines are isolated from the other animals to be slaughtered in the designated slaughterhouse. In case there is stamping out decision restocking is permitted after 6 months.
- d.Seropositive animals are valued before slaughter. Compensations at a level of 100% of their reproductive value are paid to owners.
- e.Dogs and animals of other species which are known to be susceptible to brucellosis are serologically examined too.
- f.One month after the slaughter, all bovine animals over twelve months old are serologically reexamined. g.Serological reexamination of the confirmed positive herds is performed every month, and the seropositive bovines are culled.
- h.Farms' cleaning and disinfection is done under the supervision of the Veterinary Services, with disinfectants being provided on a free basis by the Veterinary Services.
- i. The pasture after being collected and disinfected is buried in a place far away from the establishments.

Notification system in place

Any case of abortion or other symptoms related to brucellosis are compulsory notifiable to Veterinary Services of the Republic of Cyprus, according to the animal health laws N. 109 (I)/2001 and N. 82(I)/2003, 116(I)/2007 and 20(I)/2009.

Results of the investigation

Link to tables

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

The progress of eradication program was very satisfactory, with both the prevalence and incidence of bovine brucellosis in Cyprus reached zero levels by the end of 2009.

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

There have been no human cases of brucellosis during 2009.

Additional information

As far as it concerns the declaration of officially free herds 291 out of 322 have been declared officially free. The rest are under the procedure of granting the status.

E. B. melitensis in animal - Sheep and goats

Monitoring system

Sampling strategy

At infected and suspected flocks sampling is targeted.

Concerning the other flocks; sampling is part of a permanent monitoring scheme.

Samples are collected at farm level, by the employees of the Veterinary Services.

Frequency of the sampling

Infected farms: Monthly blood sampling of all animals over 6 months. Cultures from milk samples from the seropositive animals in new outbreaks and fetuses (in any case of abortion).

Non infected farms: Cultures from milk samples and fetuses from aborting animals. Blood sampling of all animals over 6 months old twice a year in non officially free farms. For officially free farms blood sampling of all animals over 6 months old or of an appropriate percentage of them once a year.

Type of specimen taken

Blood, Milk, Fetuses

Methods of sampling (description of sampling techniques)

Blood samples are taken by venipuncture from the jugular vein. Blood is collected in tubes (4 ml). Milk is collected in screw cup bottles (30 ml). Samples are stored at 2-40C, for one week at the most for blood samples and 2-3 days for milk samples.

Case definition

As a positive case is defined a case when an animal reacts positively at Rose Bengal test and / or CFT test (> 20 ICFTU).

Diagnostic/analytical methods used

All materials, reagents and procedures used are based to the relevant EEC legislation (Dir 91/68/EEC and 64/432/EEC) and the OIE Manual of diagnostic tests and vaccines for terrestrial animals (mammals, birds and bees) 5th ed, 2004.

Individual Screening Test: Rose Bengal test. 30 μl of serum and antigen are mixed on tiles to produce a zone of appr 2 cm. The mixture is rocked using a rotating shaker for 4 min and then observed for agglutination. Any degree of agglutination is considered positive. In each day test a positive and a negative control is used. The Rose Bengal antigen is commercially purchased and is manufactured according to the specifications given in the above mentioned references.

Individual Confirmation Test: Complement fixation test. Dilution of serum from $\hat{A}\frac{1}{4}$ until $\frac{1}{256}$ is used, sera are inactivated in water bath in tubes and then transferred to 96 well U micro plates. Warm fixation follows. All reagents are commercially purchased and each time the batch or the company changes titration of the reagents takes place. In each day test controls of complement, antigen, blood as well as positive and negative controls are used. Also, for each sample examined there is anticomplimentary control.

Isolation: On Brucella medium incubating in 37 C with and without CO2. Confirmation on the species level: Dye of the colony with Gram and Stamp. Culture on Mc Conkey agar (lactose fermentation) and Blood agar (Haemolysis).

Vaccination policy

VACCINATION IS PROHIBITED

Other preventive measures than vaccination in place

All movements of animals should be reported and registered on a central database and are allowed only after a brucellosis negative serological examination.

Control program/mechanisms

The control program/strategies in place

The ovine and caprine brucellosis eradication program is based on a test and extended slaughter or killing of positive animals or positive flocks, implemented in the area controlled by the Veterinary Services of the Republic of Cyprus. The target population of the program is all animals over 6 months old. The Department of Veterinary Services, which belongs to the Ministry of Agriculture, Environment and Natural Resources, is responsible for the application of the ovine and caprine brucellosis eradication program. The Director of the Veterinary Services is responsible for the coordination of the whole program. In 2004, 2005 and 2006,2007 and 2008 the EU has co-financed 50% of the program cost. All the measures taken are according to Directive 91/68 EEC.

Recent actions taken to control the zoonoses

Application of brucellosis eradication program.

Measures in case of the positive findings or single cases

Once there is a confirmation of a positive case:

- a. The farm is placed under movement restrictions.
- b. The milk collecting Organizations are notified so as the milk originating from the infected farms to be collected in separate milk tanks for pasteurization.
- c.Seropositive sheep and goats are isolated from the other animals to be slaughtered in the designated slaughterhouse. In case there is stamping out decision restocking is permitted after 6 months.
- d.Seropositive animals are valued before slaughter. Compensations at a level of 100% of their reproductive value are paid to owners.
- e.Dogs and animals of other species which are known to be susceptible to brucellosis are serologically examined too.
- f.One month after the slaughter, all sheep and goats over six months old are serologically reexamined.
- g. Serological reexamination of the confirmed positive flocks is performed every month, and the seropositive animals are culled.
- h.Farms' cleaning and disinfection is done under the supervision of the Veterinary Services, with disinfectants being provided on a free basis by the Veterinary Services.
- i.The pasture after being collected and disinfected is buried in a place far away from the establishments.

Notification system in place

Any case of abortion or other symptoms related to brucellosis are compulsory notifiable to Veterinary Services of the Republic of Cyprus, according to the Animal Health Laws N. 109 (I)/2001, N. 82(I)/2003, 116(I)/2007 and 20(I)/2009.

Results of the investigation

Link to relevant tables

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

Both the prevalence and incidence of ovine and caprine brucellosis decreased further and remained at very low levels in 2009.

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

There have been no human cases of brucellosis during 2009

Additional information

As far as it concerns the declaration of officially free flocks 2,049 out of 3,267 are officially free. The rest are under the procedure of been granted the BOF status.

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	Veterinary Services	Selective sampling	Official sampling	animal sample > blood		Animal	994	0	0	0	0

	Brucella spp., unspecified
Pigs	0

Table Ovine or Caprine brucellosis - data on herds - Community co-financed eradication programmes

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

								Indicators				
Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd Incidence		
Κύπρος / Kıbrıs	3367	3081	2921	0	0	0	N.A.	94.81	0	0		
Total:	3367	3081	2921	0	0	0	N.A.	94.81	0	0		
Total - 1	3362	3156	3036	0	0	0	N.A.	96.2	0	0		

Comments:

1) N.A.

Table Ovine or Caprine brucellosis - data on animals - Community co-financed eradication programmes

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

						Slaugl	ntering	Indicators		
Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals - animal prevalence	
τίν Κύπρος / Kıbrıs	580839	524845	227242	227242	0	0	34	43.3	0	
Total:	580839 524845		227242	227242	0	0	34	43.3	0	
Total - 1	583790	512179	512179 245766		0	0	16	47.98	0	

Comments:

¹⁾ Veterinary Services

²⁾ 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.

		Total number of existing bovine		,		erds Infected herds		Surveillance					Investigations of suspect cases									
								Serological tests		Examination of bulk milk		Information about			Epidemiological investigation							
								Number of		Number of	Number of	Number of		Number of	Number of	Number of			Number o	•	Number of	
_		Herds	Animals	Number of herds	%	Number of herds		bovine herds	Number of animals tested	Number of infected herds	herds	pools	Number of infected herds		isolations of Brucella infection	due to	tested with serological blood tests	suspended	Sero	BST	animals examined microbio	animals positive microbio
	Region							tested			tested	tested		cause		abortus			logically	ВЭТ	logically	logically
	¹⁾ Κύπρος / Kıbrıs	356	57438	306	85.96	0	0	90	2248	0	216	37196	0	42	0	0	37	0	0		15	0
	Total :	356	57438	306	85.96	0	0	90	2248	0	216	37196	0	42	0	0	37	0	0	0	15	0

Comments:

¹⁾ Veterinary Services

²⁾ N.A.

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

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

	Status of herds and animals under the programme													
		r of herds and under the	Unkı	nown		Not free or no	t officially free		Free or officially free suspended		Free		Officia	lly free
		amme	Office	iowii	Last chec	ck positive	Last chec	k negative						
Region	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals	Herds	Animals
Κύπρος / Kıbrıs	3081	524845	0	0	0	0	117	8636	2	472			2962	515737
Total :	3081	524845	0	0	0	0	117	8636	2	472	0	0	2962	515737
Total - 1	3156	512179	0	0	0	0	295	32026	0	0			2861	480153

Comments:

1) Veterinary Services

²⁾ N.A.

2.7 YERSINIOSIS

2.7.1 General evaluation of the national situation

A. Yersinia enterocolitica general evaluation

History of the disease and/or infection in the country

NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.7.2 Yersiniosis in humans

A. Yersinosis in humans

Reporting system in place for the human cases

YES SINCE JANUARY 2005

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED LABORATORY CRITERIA FOR DIAGNOSIS

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND THEIR AMENDMENTS. NOTIFIABLE SINCE JANUARY 2005

History of the disease and/or infection in the country

NOT APPLICABLE

Results of the investigation

NOT APPLICABLE

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

NOT APPLICABLE

Relevance as zoonotic disease

AS IT HAS RECENTLY BEEN DECLARED AS MANDATORY NOTIFIABLE DISEASE THEREFORE NO DATA ARE AVAILABLE FOR 2004.

WE CONSIDER IT A RELEVANT AS ZOONOTIC DISEASE.

Additional information

The relevant data for 2011 will be submitted by the colleagues of the Ministry of Health through the ECDC network.

2.7.3 Yersinia in animals

A. Yersinia enterocolitica in pigs

Monitoring system

Sampling strategy

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Case definition

Animals at farm

NO DATA AVAILABLE

Animals at slaughter (herd based approach)

NO DATA AVAILABLE

Vaccination policy

NO DATA AVAILABLE

Other preventive measures than vaccination in place

NO DATA AVAILABLE

Control program/mechanisms

The control program/strategies in place

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Measures in case of the positive findings or single cases

NO DATA AVAILABLE

Notification system in place

NO DATA AVAILABLE

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Results of the investigation

NO DATA AVAILABLE

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

NO DATA AVAILABLE

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

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.8 TRICHINELLOSIS

2.8.1 General evaluation of the national situation

A. Trichinellosis general evaluation

History of the disease and/or infection in the country
Not Present in Cyprus

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

The agent is not present in Cyprus. The relevant examination tests are done as foreseen by the EU and National Legislation in force.

2.8.2 Trichinellosis in humans

A. Trichinellosis in humans

Reporting system in place for the human cases

The report of these data is done by the colleagues of the Ministry of Health through the ECDC.

2.8.3 Trichinella in animals

A. Trichinella in horses

Monitoring system

Sampling strategy

No horse meat consumption is practiced in Cyprus.

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B. Trichinella in pigs

Number of officially recognised Trichinella-free holdings
The disease is not present in Cyprus.

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
Pigs - fattening pigs	VS Public Health Division		Official sampling	food sample > meat		Animal	630910	0	0	0
Pigs - breeding animals - raised under controlled housing conditions - sows and boars - at slaughterhouse - Surveillance	VS Public Health Division		Official sampling	food sample > meat		Animal	14442	0	0	0

2.9 ECHINOCOCCOSIS

2.9.1 General evaluation of the national situation

A. Echinococcus spp. general evaluation

History of the disease and/or infection in the country
No text available

2.9.2 Echinococcosis in humans

A. Echinococcus spp. in humans

Reporting system in place for the human cases

YES

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED LABORATORY CRITERIA FOR DIAGNOSIS

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND AMENDMENTS. IT IS A NOTIFIABLE DISEASE.

Relevance as zoonotic disease

SPORADIC CASES OF ECHINOCOCCUS ARE REPORTED ANNUALY. SURVEILLANCE OF HUMAN CASES IS CONSIDERED IMPORTANT TO EVALUTE THE PREVENTIVE PROGRAMS IN ANIMALS

Additional information

The data for humans will be furnised by the colleagues of the Ministry of Helath through the ECDC database network.

2.9.3 Echinococcus in animals

Table Echinococcus in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Region	Units tested	Total units positive for Echinococcus	E. granulosus	E. multilocularis
Cattle (bovine animals) - at slaughterhouse - Surveillance	Necropsy Lab		Official sampling	animal sample	Domestic	Animal		7	0	0	0
Sheep - at slaughterhouse - Surveillance								285	1	1	0
Goats - at slaughterhouse - Surveillance								239	0	0	0
Pigs - at slaughterhouse - Surveillance								2	0	0	0
Dogs		Objective sampling	Official sampling	animal sample		Animal	Κύπρος / Kıbrıs	28	0	0	0
Mouflons - wild - unspecified - Monitoring - passive (The samples relate to the Cypriot mouflon species of Ovis orientalis ophion)		Unspecified	Official sampling	animal sample		Animal	Κύπρος / Kıbrıs	10	0	0	0
Rabbits - at slaughterhouse - Surveillance		Unspecified	Official sampling	animal sample		Animal	Κύπρος / Kıbrıs	62	0	0	0

	Echinococcus spp., unspecified
Cattle (bovine animals) - at slaughterhouse - Surveillance	0
Sheep - at slaughterhouse - Surveillance	0
Goats - at slaughterhouse - Surveillance	0
Pigs - at slaughterhouse - Surveillance	0

Table Echinococcus in animals

	Echinococcus spp., unspecified
Dogs	0
Mouflons - wild - unspecified - Monitoring - passive (The samples relate to the Cypriot mouflon species of Ovis orientalis ophion)	0
Rabbits - at slaughterhouse - Surveillance	0

2.10 TOXOPLASMOSIS

2.10.1 General evaluation of the national situation

A. Toxoplasmosis general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

2.10.2 Toxoplasmosis in humans

A. Toxoplasmosis in humans

Reporting system in place for the human cases

YES. SINCE JANUARY 2005 FOLLOWING AMENDMENT OF THE LEGISLATION

Case definition

EU RECOMMENDED CASE DEFINITION

Diagnostic/analytical methods used

EU RECOMMENDED LABORATORY CRITERIA FOR DIAGNOSIS OF TOXOPLASMOSIS

Notification system in place

QUARANTINE (PUBLIC HEALTH) LAW AND REGULATIONS AND THEIR AMENDMENTS. NOTIFIABLE SINCE JANUARY 2005

History of the disease and/or infection in the country

NOT APPLICABLE

Results of the investigation

NOT APPLICABLE

National evaluation of the recent situation, the trends and sources of infection NOT APPLICABLE

Relevance as zoonotic disease

NO DATA ARE AVAILABLE AS IT HAS RECENTLY BEEN INCLUDED IN THE LIST OF MANDATORY NOTIFIABLE DISEASES. WE CONSIDER THE DISEASE AS RELEVANT IN VIEW OF CONGENITAL TOXOPLASMOSIS

Additional information

The relevant data for humans will be submitted by the colleagues of the Ministry of Health through the ECDC network.

2.10.3 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
Sheep and goats - at farm - Clinical investigations	Veterinary Services	Suspect sampling	Official sampling	animal sample > blood	Domestic	ELISA	Animal	111	34	34	

2.11 RABIES

2.11.1 General evaluation of the national situation

A. Rabies general evaluation

History of the disease and/or infection in the country Cyprus is free from Rabies

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

Cyprus is free from Rabies

Recent actions taken to control the zoonoses

Concerning the animals' entry into Cyprus either on a non commercial movement or on a commercial movement it is required that are duly vaccinated against Rabies.

The time period prior in which the vaccination should have taken place depends on the country of origin as provided by the EU Regulation 998/2003/EK and the related EU Decisions.

Animals originating from EU countries and third countries which are considered of equal to the EU member states Rabies status (mentioned in Part B, section 2 and Part C of Annex II of Regulation 998/2003/EK) are required to be vaccinated/revaccinated against Rabies at least 30 days prior departrure for Cyprus.

Animals originating from third countries not mentioned in Part B, section 2 and Part C of Annex II are required to have a titer result of at least 0.5 IU/ml of Rabies Neutralising Antibodies (RNA) prior the animal departs for Cyprus.

The blood sampling should have taken place 30 days after Rabies vaccination/revaccination has taken place but not less than 90 days prior departure for Cyprus.

Animals originating from Cyrpus and the other EU countries, taken on a trip to one of the third countries not mentioned in Part B, section 2 and Part C of Annex II of Regulation 998/2003/EK, and which will return to Cyprus are required to have a positive RNA blood titration test result prior leaving either Cyprus or the EU member for the trip to the third country.

Animals originating from Cyprus traveling to an EU country should be duly vaccinated or revaccinated against Rabies in order to reenter Cyprus.

2.11.2 Rabies in humans

A. Rabies in humans

Reporting system in place for the human cases

YES.

Case definition

EU RECOMMENDED CASE DEFINITION SINCE JANUARY 2004

Diagnostic/analytical methods used

EU RECOMMENDED MICOBIOLOGY LABORATORY CRITERIA

Notification system in place

QUARANTINE(PUBLIC HEALTH) LAW AND REGULATIONS AND AMENDMENTS. MANDATORY NOTIFIABLE DISEASE AND CASE DEFINITIONS INTRODUCED SINCE JANUARY 2004

History of the disease and/or infection in the country

NO CASES OF RABIES HAVE BEEN REPORTED OVER THE LAST 30 YEARS AND CYPRUS IS A RABIES FREE COUNTRY

Additional information

The report of these data will be done by the colleagues of the Ministry of Health through the ECDC database network.

2.11.3 Lyssavirus (rabies) in animals

A. Rabies in dogs

Monitoring system

Sampling strategy

Cyprus is free from Rabies.

Concerning the animals' entry into Cyprus either on a non commercial movement or on a commercial movement it is required that are duly vaccinated against Rabies.

The time period prior in which the vaccination should have taken place depends on the country of origin as provided by the EU Regulation 998/2003/EK and the related EU Decisions.

Animals originating from EU countries and third countries which are considered of equal to the EU member states Rabies status (mentioned in Part B, section 2 and Part C of Annex II of Regulation 998/2003/EK) are required to be vaccinated/revaccinated against Rabies at least 30 days prior departrure for Cyprus.

Animals originating from third countries not mentioned in Part B, section 2 and Part C of Annex II are required to have a titer result of at least 0.5 IU/ml of Rabies Neutralising Antibodies (RNA) prior the animal departs for Cyprus.

The blood sampling should have taken place 30 days after Rabies vaccination/revaccination has taken place but not less than 90 days prior departure for Cyprus.

Animals originating from Cyrpus and the other EU countries, taken on a trip to one of the third countries not mentioned in Part B, section 2 and Part C of Annex II of Regulation 998/2003/EK, and which will return to Cyprus are required to have a positive RNA blood titration test result prior leaving either Cyprus or the EU member for the trip to the third country.

Animals originating from Cyprus traveling to an EU country should be duly vaccinated or revaccinated against Rabies in order to reenter Cyprus.

Frequency of the sampling

Blood Sampling is done for dogs which are to travel to a third country not mentioned in Part B, section 2 and Part C of Annex II of Regulation 998/2003/EK and which will enter/return back to Cyprus.

Type of specimen taken

Blood

Methods of sampling (description of sampling techniques)

Blood is sampled and the blood sampling should have taken place 30 days after Rabies vaccination/revaccination has taken place but not less than 90 days prior departure for Cyprus. The blood sample should be sent to one of the EU recognised laboratories for evaluating the Rabies Neutralising Antibodies titer.

Case definition

As Rabies case is considered an animal which shows symptoms attributed to Rabies virus and from

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whose the CNS Negri virus particles are detected histopathologically.

Diagnostic/analytical methods used

Hellers stain

Vaccination policy

Rabies vaccination is voluntary as Cyprus is free from Rabies.

In case the animal is to travel abroad and in order for it to reenter free, the relevant Rabies vaccination and/or antibodies titration should take place within the required time frame, as provided by the provisions in force (www.moa.gov.cy/vs Useful Information link).

Other preventive measures than vaccination in place

Quarantine

Control program/mechanisms

The control program/strategies in place

The relevant chekcs are performed by both the Customs Department and the Veterinary Services upon the animals arrival at the Republic of Cyprus' official points of entry.

Measures in case of the positive findings or single cases

The suspect animal is euthanised and confiscated for further examination by the Veterinary Services. Any possible human or animal contact with the suspect animal is traced back and appropriately treated in case of humans. As far as animals is concerned they are confiscated and isolated so as to safeguard the proper handling in case of new positive cases.

Notification system in place

Mandatory Notifiable

Results of the investigation

Investigations of the human contacts with positive cases

Any human contacts in case of a rabies incidence are traced and appropriately checked by the Public Health Services of the Ministry of Health.

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

Cyprus is free from Rabies

2.12 STAPHYLOCOCCUS INFECTION

2.12.1 General evaluation of the national situation

2.12.2 Staphylococcus in foodstuffs

Table Staphylococcus in Food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc us	S. aureus, meticillin resistant (MRSA)	S. aureus, meticillin resistant (MRSA) - spa -type t011
Cheeses, made from mixed milk from cows, sheep and/or goats - unspecified - made from pasteurised milk - at processing plant - Surveillance (Domestic/In -house production)	LCFAO		Official sampling	food sample		Single	10g	1656			
Dairy products (excluding cheeses) - fermented dairy products - Surveillance (Trachanas traditional product made of fermented milk and crushed wheat)	LCFAO		Official sampling	food sample		Single	10g	75	0	0	0

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified
Cheeses, made from mixed milk from cows, sheep and/or goats - unspecified - made from pasteurised milk - at processing plant - Surveillance (Domestic/In -house production)			

Table Staphylococcus in Food

	S. aureus, meticillin resistant (MRSA) - spa -type t108	S. aureus, meticillin resistant (MRSA) - spa -type t034	S. aureus, meticillin resistant (MRSA) - MRSA, unspecified
Dairy products (excluding cheeses) - fermented dairy products - Surveillance (Trachanas traditional product made of fermented milk and crushed wheat)	0	0	0

2.13 Q-FEVER

2.13.1 General evaluation of the national situation

A. Coxiella burnetii (Q-fever) general evaluation

History of the disease and/or infection in the country
No Data Available

2.13.2 Coxiella (Q-fever) in animals

Table Coxiella burnetii (Q fever) in animals

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Analytical Method	Sampling unit	Units tested	Total units positive for Coxiella (Q- fever)	C. burnetii	No of clinically affected herds
Cattle (bovine animals) - at farm - Clinical investigations		Convenience sampling	Official sampling	animal sample		PCR	Animal	18	1	1	1
Sheep - at farm - Clinical investigations		Convenience sampling	Official sampling	animal sample		PCR	Animal	71	25	25	3
Goats - at farm - Clinical investigations		Convenience sampling	Official sampling	animal sample		PCR	Animal	37	2	2	

2.14 WEST NILE VIRUS INFECTIONS

- 2.14.1 General evaluation of the national situation
- 2.14.2 West Nile Virus Infections in humans

A. West Nile Virus in Humans

Reporting system in place for the human cases

The relevant data for humans will be furnished by the Mo Health colleagues through the ECEDC

3. INFORMATION ON SPECIFIC INDICATORS OF ANTIMICROBIAL RESISTANCE

3.1 ESCHERICHIA COLI, NON-PATHOGENIC

3.1.1 General evaluation of the national situation

A. Escherichia coli general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

National evaluation of the recent situation, the trends and sources of infection NO DATA AVAILABLE

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

NO DATA AVAILABLE

Recent actions taken to control the zoonoses

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

3.1.2 Antimicrobial resistance in Escherichia coli, non-pathogenic

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		2	
	Streptomycin		16	
Amphenicols	Chloramphenicol		16	
Cephalosporins	Cefotaxime		0.25	
Fluoroquinolones	Ciprofloxacin		0.03	
Penicillins	Ampicillin		8	
Quinolones	Nalidixic acid		16	
Sulfonamides	Sulfonamides		256	
Tetracyclines	Tetracycline		8	
Trimethoprim	Trimethoprim		2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		2	
	Streptomycin		16	
Amphenicols	Chloramphenicol		16	
Cephalosporins	Cefotaxime		0.25	
Fluoroquinolones	Ciprofloxacin		0.03	
Penicillins	Ampicillin		8	
Quinolones	Nalidixic acid		16	
Sulfonamides	Sulfonamides		256	
Tetracyclines	Tetracycline		8	
Trimethoprim	Trimethoprim		2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		2	
	Streptomycin		16	
Amphenicols	Chloramphenicol		16	
Cephalosporins	Cefotaxime		0.25	
Fluoroquinolones	Ciprofloxacin		0.03	
Penicillins	Ampicillin		8	
Quinolones	Nalidixic acid		16	
Sulfonamides	Sulfonamides		256	
Tetracyclines	Tetracycline		8	
Trimethoprim	Trimethoprim		2	

3.2 ENTEROCOCCUS, NON-PATHOGENIC

3.2.1 General evaluation of the national situation

3.2.2 Antimicrobial resistance in Enterococcus, non-pathogenic isolates

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	32	
	Streptomycin	EFSA	512	
Amphenicols	Chloramphenicol	EFSA	32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin	EFSA	4	
Macrolides	Erythromycin	EFSA	4	
Oxazolidines	Linezolid	EFSA	4	
Penicillins	Ampicillin	EFSA	4	
Streptogramins	Quinupristin/Dalfopristin	EFSA	32	

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

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Tetracyclines	Tetracycline	EFSA	2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		32	
	Streptomycin		512	
Amphenicols	Chloramphenicol		32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Oxazolidines	Linezolid		4	
Penicillins	Ampicillin		4	
Streptogramins	Quinupristin/Dalfopristin		32	
Tetracyclines	Tetracycline		2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		32	
	Streptomycin		512	
Amphenicols	Chloramphenicol		32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Oxazolidines	Linezolid		4	
Penicillins	Ampicillin		4	
Streptogramins	Quinupristin/Dalfopristin		32	
Tetracyclines	Tetracycline		2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin	EFSA	32	
	Streptomycin	EFSA	128	
Amphenicols	Chloramphenicol	EFSA	32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin	EFSA	4	
Macrolides	Erythromycin	EFSA	4	
Oxazolidines	Linezolid	EFSA	4	
Penicillins	Ampicillin	EFSA	4	
Streptogramins	Quinupristin/Dalfopristin	EFSA	1	
Tetracyclines	Tetracycline	EFSA	2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		32	
	Streptomycin		128	
Amphenicols	Chloramphenicol		32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Oxazolidines	Linezolid		4	
Penicillins	Ampicillin		4	
Streptogramins	Quinupristin/Dalfopristin		1	
Tetracyclines	Tetracycline		2	

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

Test Method Used	Standard methods used for testing

			Concentration (microg/ml)	Zone diameter (mm)
		Standard	Resistant >	Resistant <=
Aminoglycosides	Gentamicin		32	
	Streptomycin		128	
Amphenicols	Chloramphenicol		32	
Glycopeptides (Cyclic peptides, Polypeptides)	Vancomycin		4	
Macrolides	Erythromycin		4	
Oxazolidines	Linezolid		4	
Penicillins	Ampicillin		4	
Streptogramins	Quinupristin/Dalfopristin		1	
Tetracyclines	Tetracycline		2	

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4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS

4.1 ENTEROBACTER SAKAZAKII

4.1.1 General evaluation of the national situation

A. Cronobacter general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

4.1.2 Cronobacter in foodstuffs

A. Cronobacter in foodstuffs

Monitoring system
Sampling strategy
NO DATA AVAILABLE

4.2 HISTAMINE

4.2.1 General evaluation of the national situation

A. Histamine General evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

4.2.2 Histamine in foodstuffs

A. Histamine in foodstuffs

Monitoring system
Sampling strategy
NO DATA AVAILABLE

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 maturated - at processing plant - Surveillance	LCFAO					Single	95g 100g, 125g, 130g, 180g,	99	0	99	0
Fish - Fishery products which have undergone enzyme maturation treatment in brine - at processing plant - Surveillance	LCFAO					Single	95g	9	0	9	0
Fish - raw - chilled - at border control - Surveillance (Herring)	LCFAO		Official sampling	food sample		Single	50g	9	0	9	0
Fish - raw - frozen - at border control - Surveillance (Mackerel)	LCFAO		Official sampling	food sample		Single	100g	18	0	9	0
Fishery products, unspecified - at border control - Surveillance	LCFAO		Official sampling	food sample		Single	113g	9	0	9	0
Fishery products, unspecified - cooked - at border control - Surveillance (Fish sauce)	LCFAO		Official sampling	food sample		Single	725ml	9	0	0	0

	>200 - <= 400 mg/kg	> 400 mg/kg
Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme maturated - at processing plant - Surveillance	0	0
Fish - Fishery products which have undergone enzyme maturation treatment in brine - at processing plant - Surveillance	0	0

Table Histamine in food

	>200 - <= 400 mg/kg	> 400 mg/kg
Fish - raw - chilled - at border control - Surveillance (Herring)	0	0
Fish - raw - frozen - at border control - Surveillance (Mackerel)	0	0
Fishery products, unspecified - at border control - Surveillance	0	0
Fishery products, unspecified - cooked - at border control - Surveillance (Fish sauce)	0	0

4.3 STAPHYLOCOCCAL ENTEROTOXINS

4.3.1 General evaluation of the national situation

A. Staphylococcal enterotoxins general evaluation

History of the disease and/or infection in the country NO DATA AVAILABLE

4.3.2 Staphylococcal enterotoxins in foodstuffs

A. Staphylococcal enterotoxins in foodstuffs

Monitoring system
Sampling strategy
NO DATA AVAILABLE

Table Staphylococcal enterotoxins in food

	Source of information	Sampling strategy	Sampler	Sample type	Sample origin	Sampling unit	Sample weight	Units tested	Total units positive for Staphylococc al enterotoxins
Cheeses made from goats' milk - soft and semi-soft - made from pasteurised milk	LCFAO		Official sampling	food sample	Domestic	Single	25g	5	0
Cheeses made from sheep's milk - soft and semi- soft - made from pasteurised milk	LCFAO		Official sampling	food sample	Domestic	Single	25g	6	1
Cheeses, made from mixed milk from cows, sheep and/or goats - soft and semi-soft - made from pasteurised milk	LCFAO		Official sampling	food sample	Domestic	Single	25g	10	0
Cheeses, made from unspecified milk or other animal milk - hard - made from pasteurised milk	LCFAO		Official sampling	food sample	Domestic	Single	25g	1	0
Cheeses, made from unspecified milk or other animal milk - soft and semi-soft - made from pasteurised milk	LCAFAO		Official sampling	food sample	Domestic	Single	25g	1	0
Dairy products, unspecified	LCFAO		Official sampling	food sample	Domestic	Single	25g	1	0

5. FOODBORNE

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

A. Foodborne outbreaks

System in place for identification, epidemological investigations and reporting of foodborne outbreaks

NO DATA AVAILABLE

Description of the types of outbreaks covered by the reporting:

NO DATA AVAILABLE

National evaluation of the reported outbreaks in the country:

Trends in numbers of outbreaks and numbers of human cases involved

NO DATA AVAILABLE

Relevance of the different causative agents, food categories and the agent/food category combinations

NO DATA AVAILABLE

Relevance of the different type of places of food production and preparation in outbreaks NO DATA AVAILABLE

Evaluation of the severity and clinical picture of the human cases

NO DATA AVAILABLE

Descriptions of single outbreaks of special interest

NO DATA AVAILABLE

Control measures or other actions taken to improve the situation

NO DATA AVAILABLE

Suggestions to the European Union for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE

Table Foodborne Outbreaks: summarised data

	Weak	evidence or n				
	Number of outbreaks	Human cases	Hospitalized	Deaths	Strong evidence Number of Outbreaks	Total number of outbreaks
Salmonella - S. Typhimurium	0	unknown	unknown	unknown	0	0
Salmonella - S. Enteritidis	0	unknown	unknown	unknown	0	0
Salmonella - Other serovars	0	unknown	unknown	unknown	0	0
Campylobacter	0	unknown	unknown	unknown	0	0
Listeria - Listeria monocytogenes	0	unknown	unknown	unknown	0	0
Listeria - Other Listeria	0	unknown	unknown	unknown	0	0
Yersinia	0	unknown	unknown	unknown	0	0
Escherichia coli, pathogenic - Verotoxigenic E. coli (VTEC)	0	unknown	unknown	unknown	0	0
Bacillus - B. cereus	0	unknown	unknown	unknown	0	0
Bacillus - Other Bacillus	0	unknown	unknown	unknown	0	0
Staphylococcal enterotoxins	0	unknown	unknown	unknown	0	0
Clostridium - Cl. botulinum	0	unknown	unknown	unknown	0	0
Clostridium - Cl. perfringens	0	unknown	unknown	unknown	0	0

	Weak	evidence or n				
	Number of outbreaks	Human cases	Hospitalized	Deaths	Strong evidence Number of Outbreaks	Total number of outbreaks
Clostridium - Other Clostridia	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Brucella	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Shigella	0	unknown	unknown	unknown	0	0
Other Bacterial agents - Other Bacterial agents	0	unknown	unknown	unknown	0	0
Parasites - Trichinella	0	unknown	unknown	unknown	0	0
Parasites - Giardia	0	unknown	unknown	unknown	0	0
Parasites - Cryptosporidium	0	unknown	unknown	unknown	0	0
Parasites - Anisakis	0	unknown	unknown	unknown	0	0
Parasites - Other Parasites	0	unknown	unknown	unknown	0	0
Viruses - Norovirus	0	unknown	unknown	unknown	0	0
Viruses - Hepatitis viruses	0	unknown	unknown	unknown	0	0
Viruses - Other Viruses	0	unknown	unknown	unknown	0	0
Other agents - Histamine	0	unknown	unknown	unknown	0	0
Other agents - Marine biotoxins	0	unknown	unknown	unknown	0	0
Other agents - Other Agents	0	unknown	unknown	unknown	0	0

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Weak evidence or no vehicle outbreaks						
	Number of outbreaks	Human cases	Hospitalized	Deaths	Strong evidence Number of Outbreaks	Total number of outbreaks
	0	unknown	unknown	unknown	0	0

Unknown agent