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 2011
INFORMATION ON THE REPORTING AND MONITORING SYSTEM

Country: Cyprus
Reporting Year: 2011

<table>
<thead>
<tr>
<th>Laboratory name</th>
<th>Description</th>
<th>Contribution</th>
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<tr>
<td>Necropsy Lab</td>
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<td>Microbiological and Patholoanatomy data</td>
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<tr>
<td>Animal Health Lab</td>
<td>AHL</td>
<td>Animal Health microbiological data</td>
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<tr>
<td>Lab for the Control of Food of Animal Origin</td>
<td>LCFAO</td>
<td>Food Safety and Food Microbiology data</td>
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</table>
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 2011.

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

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

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

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

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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 2011.

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

The total bovine population is estimated to 58,127 animals, reared in 356 herds. The population under the brucellosis program is 38,474 animals in 308 herds.
The total sheep and goat population is estimated to 583,790 reared in 3,362 flocks. The population under the brucellosis program is 512,179 animals reared in 3,156 flocks.
### Table Susceptible animal populations

*Only if different than current reporting year

<table>
<thead>
<tr>
<th>Animal species</th>
<th>Category of animals</th>
<th>Number of herds or flocks</th>
<th>Number of slaughtered animals</th>
<th>Livestock numbers (live animals)</th>
<th>Number of holdings</th>
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<tr>
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<td>calves (under 1 year)</td>
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<tr>
<td></td>
<td>mixed herds</td>
<td></td>
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<td></td>
<td>- in total</td>
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</tr>
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<td></td>
<td>breeding flocks, unspecified - in total</td>
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<tr>
<td></td>
<td>laying ducks</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>- in total</td>
<td></td>
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<td><strong>Gallus gallus (fowl)</strong></td>
<td>breeding flocks for egg production line - in total</td>
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### Table Susceptible animal populations

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<th>Number of herds or flocks</th>
<th>Number of slaughtered animals</th>
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<td>Number of slaughtered animals</td>
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<td></td>
<td>- in total</td>
<td>13</td>
<td>31669</td>
<td>8</td>
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</table>
Table Susceptible animal populations

Comments:

1) *The goat population is incorporated with the sheep population

2) *The goat population is incorporated with the sheep population
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 Salmonella 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 2011 will be submitted by the colleagues of the Ministry of Health through the ECDC
database network.
2.1.3 Salmonella in foodstuffs

A. 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 Community for the actions to be taken
NO DATA AVAILABLE

Measures in case of the positive findings or single cases
Cyprus - 2011 Report on trends and sources of zoonoses

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. 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 Community 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 - 2011 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 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
NO DATA AVAILABLE

Results of the investigation
NO DATA AVAILABLE
Cyprus - 2011 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
D. 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 стрategies in place
NO DATA AVAILABLE
Recent actions taken to control the zoonoses
NO DATA AVAILABLE
Suggestions to the Community 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 - 2011 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
E. 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 - 2011 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
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<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
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<tbody>
<tr>
<td>Meat from broilers (Gallus gallus) - carcase - at slaughterhouse - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample &gt; neck skin</td>
<td>Batch</td>
<td>25 g</td>
<td>245</td>
<td>30</td>
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<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample &gt; meat</td>
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<td>25g</td>
<td>130</td>
<td>10</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>130</td>
<td>10</td>
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<tr>
<td>Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
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<td>25 g</td>
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<td>Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance</td>
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<td>food sample</td>
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<td>25 g</td>
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<td>Meat from broilers (Gallus gallus) - minced meat - intended to be eaten cooked - at processing plant - Surveillance</td>
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<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
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<td>Meat from farmed game - ratites - carcase - chilled - at slaughterhouse - Surveillance</td>
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### Table Salmonella in poultry meat and products thereof

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<td>Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - at retail - Surveillance</td>
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<td>Meat from turkey - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance</td>
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<td>Meat from farmed game - ratites - carcase - chilled - at slaughterhouse - Surveillance</td>
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<td>Other products of animal origin - at slaughterhouse - Surveillance</td>
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Table Salmonella in milk and dairy products

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<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
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<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
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<td>Official sampling</td>
<td>food sample</td>
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### Table Salmonella in milk and dairy products

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<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
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<tbody>
<tr>
<td>Other products of animal origin - at processing plant - domestic production - Surveillance (Trachanas)</td>
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<td>Batch</td>
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<table>
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<th>S. Mishmarhaemek</th>
<th>S. Montevideo</th>
<th>S. Telaviv</th>
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<td>Dairy products (excluding cheeses) - cream - made from pasteurised milk - Surveillance</td>
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<td>Dairy products (excluding cheeses) - fermented dairy products - at processing plant - domestic production - Surveillance</td>
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<td>Dairy products (excluding cheeses) - yoghurt - Surveillance</td>
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## Table Salmonella in milk and dairy products

<table>
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<th>S. Montevideo</th>
<th>S. Telaviv</th>
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Cyprus - 2011 Report on trends and sources of zoonoses
### Table Salmonella in other food

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<th>Sampler</th>
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<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
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<td>food sample</td>
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<td>food sample &gt; meat</td>
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<td>food sample &gt; meat</td>
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### Table Salmonella in other food

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<th>S. Typhimurium</th>
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<th>S. Mbandaka</th>
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<td>Eggs - raw material (liquid egg) for egg products - at processing plant - Surveillance</td>
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<td>S. Senftenberg</td>
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### Table Salmonella in other food

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<td>LCFAO</td>
<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
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</tr>
<tr>
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<td>LCFAO</td>
<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
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<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
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<tr>
<td>Meat from bovine animals - fresh - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Batch</td>
<td>10g</td>
</tr>
<tr>
<td>Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance</td>
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<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>30</td>
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<tr>
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<td>Batch</td>
<td>10g</td>
<td>20</td>
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<tr>
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<td>Batch</td>
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<td>Sampler</td>
<td>Sample type</td>
<td>Sample Origin</td>
<td>Sampling unit</td>
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<td>---------------</td>
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<tr>
<td>Meat from sheep - fresh - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>10</td>
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<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>65</td>
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<td>Meat from sheep - meat products - raw but intended to be eaten cooked - Surveillance</td>
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<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>10</td>
</tr>
<tr>
<td>Other products of animal origin</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>10</td>
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<td>Other products of animal origin - at slaughterhouse</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>Batch</td>
<td>10g</td>
<td>10</td>
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<table>
<thead>
<tr>
<th>Salmonella spp., unspecified</th>
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</thead>
<tbody>
<tr>
<td>Meat from pig - fresh - at processing plant - Surveillance</td>
</tr>
<tr>
<td>Meat from pig - fresh - at retail - Surveillance</td>
</tr>
<tr>
<td>Meat from pig - minced meat - intended to be eaten cooked - at processing plant - Surveillance</td>
</tr>
<tr>
<td>Meat from pig - minced meat - intended to be eaten cooked - at retail - Surveillance</td>
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Table Salmonella in red meat and products thereof

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<tr>
<td>Meat from pig - meat products - raw but intended to be eaten cooked - at processing plant - Surveillance</td>
<td>10</td>
</tr>
<tr>
<td>Meat from pig - meat products - raw but intended to be eaten cooked - at retail - Surveillance</td>
<td>35</td>
</tr>
<tr>
<td>Meat from bovine animals - fresh - at processing plant - Surveillance</td>
<td>0</td>
</tr>
<tr>
<td>Meat from bovine animals - minced meat - intended to be eaten cooked - at processing plant - Surveillance</td>
<td>0</td>
</tr>
<tr>
<td>Meat from bovine animals - minced meat - intended to be eaten cooked - at retail - Surveillance</td>
<td>0</td>
</tr>
<tr>
<td>Meat from bovine animals - meat preparation - intended to be eaten cooked - at processing plant - Surveillance</td>
<td>0</td>
</tr>
<tr>
<td>Meat from bovine animals - meat preparation - intended to be eaten cooked - at retail - Surveillance</td>
<td>0</td>
</tr>
<tr>
<td>Meat from sheep - fresh - at processing plant - Surveillance</td>
<td>5</td>
</tr>
<tr>
<td>Meat from pig - meat products - unspecified, ready-to-eat - at processing plant - Surveillance</td>
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</tr>
<tr>
<td>Meat from pig - meat products - unspecified, ready-to-eat - at retail - domestic production - Surveillance (Traditional sausages and delicatessen)</td>
<td>5</td>
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<tr>
<td></td>
<td>0</td>
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<tr>
<td>Animal Products</td>
<td>Salmonella spp., unspecified</td>
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<tr>
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<td>------------------------------</td>
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<td>Other products of animal origin</td>
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<tr>
<td>Other products of animal origin - at slaughterhouse</td>
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</table>
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)
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)
Cyprus - 2011 Report on trends and sources of zoonoses

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 Community 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 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 - 2011 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 Community 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
NO DATA AVAILABLE
D. 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
Cyprus - 2011 Report on trends and sources of zoonoses

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 Community 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
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

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

NO DATA AVAILABLE
Cyprus - 2011 Report on trends and sources of zoonoses

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 Community 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

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<th>Sampler</th>
<th>Sample type</th>
<th>Target Verification</th>
<th>Sampling unit</th>
<th>Units tested</th>
<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
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<tbody>
<tr>
<td>Veterinary Services</td>
<td>Census</td>
<td>Official and industry sampling</td>
<td>Environmental sample &gt; boot swabs and dust</td>
<td>no</td>
<td>Flock</td>
<td>50</td>
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<table>
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<th>S. Hadar</th>
<th>S. Infantis</th>
<th>S. Typhimurium</th>
<th>S. Virchow</th>
<th>S. 1,4,[5],12:i: -</th>
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<th>S. Blockley</th>
<th>S. Kentucky</th>
<th>S. Senftenberg</th>
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<tr>
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<td>Sampler</td>
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<td>Sample Origin</td>
<td>Sampling unit</td>
<td>Units tested</td>
<td>Total units positive for Salmonella</td>
<td>S. Enteritidis</td>
<td>S. Typhimurium</td>
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<td>Pigeons - at farm - Monitoring</td>
<td>Unspecified</td>
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<td>0</td>
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<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
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<td>1</td>
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<td>Animal</td>
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<td>animal sample</td>
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<td>animal sample</td>
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<td>Sampler</td>
<td>Sample type</td>
<td>Sample Origin</td>
<td>Sampling unit</td>
<td>Units tested</td>
<td>Total units positive for Salmonella</td>
<td>S. Enteritidis</td>
<td>S. Typhimurium</td>
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</tr>
<tr>
<td>Cattle (bovine animals) - calves (under 1 year) - at farm - Monitoring</td>
<td>Veterinary Services</td>
<td>Suspect sampling</td>
<td>Official sampling</td>
<td>animal sample</td>
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<td>5</td>
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<td>Salmonella spp., unspecified</td>
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<tr>
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### Table Salmonella in other poultry

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<th>Sampler</th>
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<th>Units tested</th>
<th>Total units positive for Salmonella</th>
<th>S. Enteritidis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes</strong></td>
<td>Veterinary Services</td>
<td>Selective sampling</td>
<td>Official sampling</td>
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<td>69</td>
<td>16</td>
<td>4</td>
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<tr>
<td><strong>Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes</strong></td>
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<td>Selective sampling</td>
<td>Official sampling</td>
<td>Environmental sample &gt; boot swabs</td>
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<td>Holding</td>
<td>9</td>
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<td>Official and industry sampling</td>
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<tr>
<td><strong>Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes</strong></td>
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<td>Official sampling</td>
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<td>Flock</td>
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<th>Sample type</th>
<th>S. Typhimurium</th>
<th>S. 1,4,[5],12:i:-</th>
<th>Salmonella spp., unspecified</th>
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</thead>
<tbody>
<tr>
<td><strong>Gallus gallus (fowl) - laying hens - adult - at farm - Control and eradication programmes</strong></td>
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<td></td>
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<tr>
<td><strong>Gallus gallus (fowl) - broilers - before slaughter - at farm - Control and eradication programmes</strong></td>
<td></td>
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<td>1</td>
</tr>
<tr>
<td><strong>Turkeys - breeding flocks, unspecified - adult - at farm - Control and eradication programmes</strong></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
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</tr>
<tr>
<td><strong>Turkeys - fattening flocks - before slaughter - at farm - Control and eradication programmes</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Table Salmonella in other poultry
2.1.5 Salmonella serovars and phagetype distribution

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

Table Salmonella serovars in animals

<table>
<thead>
<tr>
<th>Serovar</th>
<th>Cattle (bovine animals)</th>
<th>Pigs</th>
<th>Gallus gallus (fowl)</th>
<th>Other poultry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Control program</td>
<td>Monitoring</td>
<td>Clinical</td>
<td>Surveillance</td>
</tr>
<tr>
<td>Number of isolates in the laboratory</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Number of isolates serotyped</td>
<td>0</td>
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</tr>
<tr>
<td>Number of isolates per serovar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S. Anatum</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>S. Blockley</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S. Bredeney</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S. Enteritidis</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S. Goldcoast</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>S. Hadar</td>
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### Table Salmonella serovars in animals

<table>
<thead>
<tr>
<th>Serovar</th>
<th>Sources of isolates</th>
<th>Cattle (bovine animals)</th>
<th>Pigs</th>
<th>Gallus gallus (fowl)</th>
<th>Other poultry</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Control program</td>
<td>Monitoring</td>
<td>Clinical</td>
<td>Surveillance</td>
</tr>
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<td>Number of isolates in the laboratory</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Number of isolates serotyped</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<p>| Number of isolates per serovar | S. Infantis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| S. Kedougou | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| S. Kentucky | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| S. Livingstone | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| S. Mishmarhaemek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| S. Muenchen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| S. Paratyphi B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| S. Senftenberg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| S. Typhimurium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S. Virchow | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| S. Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |</p>
<table>
<thead>
<tr>
<th>Serovar</th>
<th>Other poultry</th>
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<td>Sources of isolates</td>
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</tr>
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<td>S. Blockley</td>
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<td>S. Bredeney</td>
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<td>S. Goldcoast</td>
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<td>S. Hadar</td>
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<td>S. Infantis</td>
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</tr>
<tr>
<td>S. Kedougou</td>
<td></td>
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</tr>
<tr>
<td>S. Kentucky</td>
<td></td>
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</tr>
<tr>
<td>S. Livingstone</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S. Mishmarhaemek</td>
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### Table Salmonella serovars in animals

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<tr>
<td>Number of isolates per serovar</td>
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<td>S. Virchow</td>
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<td>S. Virginia</td>
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### Table Salmonella serovars in food

<table>
<thead>
<tr>
<th>Serovar</th>
<th>Meat from bovine animals</th>
<th>Meat from pig</th>
<th>Meat from broilers (Gallus gallus)</th>
<th>Meat from other poultry species</th>
<th>Other products of animal origin</th>
<th>Milk, cows' - raw milk - at farm - Monitoring</th>
<th>Other food of non-animal origin - at border control - Monitoring</th>
</tr>
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<tbody>
<tr>
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<td>Surveillance</td>
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<td>Serovar</td>
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<td>Meat from pig</td>
<td>Meat from broilers (Gallus gallus)</td>
<td>Meat from other poultry species</td>
<td>Other products of animal origin</td>
<td>Milk, cows’ - raw milk - at farm - Monitoring</td>
<td>Other food of non-animal origin - at border control - Monitoring</td>
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<td></td>
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<tr>
<td>S. Telaviv</td>
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<tr>
<td>S. Tennessee</td>
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<td>S. Typhimurium</td>
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<td>Serovar</td>
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<td>Water - potable water - unspecified - Clinical investigations</td>
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</tr>
</tbody>
</table>

Number of isolates per serovar:

- Other serovars
- S. 1,3,19:-:--
- S. Infantis
- S. Kedougou
- S. Livingstone
- S. Mbandaka
- S. Mishmarhaemek
- S. Montevideo
- S. Senftenberg
- S. Telaviv
### Table Salmonella serovars in food

<table>
<thead>
<tr>
<th>Serovar</th>
<th>Other food of non-animal origin - at border control - Monitoring</th>
<th>Water - potable water - unspecified - Clinical investigations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sources of isolates</td>
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<tr>
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<td>Surveillance Monitoring</td>
<td>Surveillance</td>
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<tr>
<td>Number of isolates in the laboratory</td>
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</tr>
<tr>
<td></td>
<td>Number of isolates per serovar</td>
<td></td>
</tr>
<tr>
<td>S. Tennessee</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>S. Typhimurium</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Footnote:

Other food of non-animal origin (Animal feed)-at border control:
The sampling was carried out by the Department of Agriculture which is the competent authority for the control of animal feed. 
OTHER SEROVARS: S. Ouakam
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 Community 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 - 2011 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
B. 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)
NO DATA AVAILABLE
C. 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 Community 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
D. 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
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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
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Control program/mechanisms
  The control program/strategies in place
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Recent actions taken to control the zoonoses
  NO DATA AVAILABLE

Suggestions to the Community for the actions to be taken
  NO DATA AVAILABLE

Measures in case of the positive findings or single cases
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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
E. 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
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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 Community 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 - 2011 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
F. Antimicrobial resistance in Salmonella in poultry

Sampling strategy used in monitoring
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  Type of specimen taken
    NO DATA AVAILABLE

Methods of sampling (description of sampling techniques)
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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 Community 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 - 2011 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
### Table Antimicrobial susceptibility testing of Salmonella in Gallus gallus (fowl)

<table>
<thead>
<tr>
<th>Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
<th>S. 1,4,[5],12:i:-</th>
<th>Salmonella spp.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Isolates out of a monitoring program (yes/no)</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>18</td>
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<tr>
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<td>n</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Antimicrobials:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Aminoglycosides - Gentamicin</td>
<td>5</td>
<td>0</td>
<td>18</td>
<td>3</td>
</tr>
<tr>
<td>Aminoglycosides - Streptomycin</td>
<td>5</td>
<td>0</td>
<td>18</td>
<td>6</td>
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<tr>
<td>Amphenicols - Chloramphenicol</td>
<td>5</td>
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<td>18</td>
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<tr>
<td>Cephalosporins - 3rd generation cephalosporins</td>
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<td>18</td>
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<tr>
<td>Fluoroquinolones - Ciprofloxacin</td>
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<tr>
<td>Penicillins - Ampicillin</td>
<td>5</td>
<td>0</td>
<td>18</td>
<td>4</td>
</tr>
<tr>
<td>Quinolones - Nalidixic acid</td>
<td>5</td>
<td>0</td>
<td>18</td>
<td>3</td>
</tr>
<tr>
<td>Sulfonamides</td>
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<td>0</td>
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</tr>
<tr>
<td>Tetracyclines - Tetracycline</td>
<td>5</td>
<td>0</td>
<td>18</td>
<td>6</td>
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<td>Trimethoprim</td>
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<tr>
<td>Fully sensitive</td>
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<td>5</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>Resistant to 1 antimicrobial</td>
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<td>0</td>
<td>18</td>
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<tr>
<td>Resistant to 2 antimicrobials</td>
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<td>Resistant to 3 antimicrobials</td>
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<td>Resistant to 4 antimicrobials</td>
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<tr>
<td>Resistant to &gt;4 antimicrobials</td>
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<td>0</td>
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<td>4</td>
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### Table Antimicrobial susceptibility testing of Salmonella in Turkeys

<table>
<thead>
<tr>
<th>Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
<th>S. 1,4,[5],12:i:-</th>
<th>S. Saintpaul</th>
<th>Salmonella spp.</th>
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</thead>
<tbody>
<tr>
<td>Isolates out of a monitoring program (yes/no)</td>
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<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
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<td>0</td>
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<td>N</td>
<td>n</td>
<td>N</td>
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<td></td>
</tr>
<tr>
<td>Aminoglycosides - Streptomycin</td>
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<td></td>
<td></td>
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<tr>
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<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>Fluoroquinolones - Ciprofloxacin</td>
<td>1</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Penicillins - Ampicillin</td>
<td>1</td>
<td>0</td>
<td></td>
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<tr>
<td>Sulfonamides</td>
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<tr>
<td>Tetracyclines - Tetracycline</td>
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<td></td>
</tr>
<tr>
<td>Trimethoprim</td>
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<td></td>
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<tr>
<td>Fully sensitive</td>
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<td>0</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Resistant to 1 antimicrobial</td>
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<tr>
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<td></td>
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<td>Resistant to &gt;4 antimicrobials</td>
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</table>
### Table Antimicrobial susceptibility testing of Salmonella in Gallus gallus (fowl) - laying hens

<table>
<thead>
<tr>
<th>Salmonella</th>
<th>S. Enteritidis</th>
<th>S. Typhimurium</th>
<th>S. 1,4,[5],12:i:-</th>
<th>Salmonella spp.</th>
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<tbody>
<tr>
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<td>yes</td>
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<tr>
<td>Number of isolates available in the laboratory</td>
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<td>N</td>
<td>n</td>
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<tr>
<td>Aminoglycosides - Gentamicin</td>
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</tr>
<tr>
<td>Aminoglycosides - Streptomycin</td>
<td>4</td>
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<td>5</td>
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<tr>
<td>Amphenicols - Chloramphenicol</td>
<td>4</td>
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<td>17</td>
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<td>Cephalosporins - 3rd generation cephalosporins</td>
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<td>17</td>
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<td>Fluoroquinolones - Ciprofloxacin</td>
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<td>Penicillins - Ampicillin</td>
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<td>0</td>
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<td>Sulfonamides</td>
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<td>0</td>
<td>17</td>
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<tr>
<td>Fully sensitive</td>
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<tr>
<td>Resistant to 1 antimicrobial</td>
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<tr>
<td>Resistant to 4 antimicrobials</td>
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<tr>
<td>Resistant to &gt;4 antimicrobials</td>
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<td>3</td>
</tr>
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<td>S. Typhimurium</td>
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<td>S. Paratyphi B var. Java</td>
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<tr>
<td>Antimicrobials:</td>
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<tr>
<td>Aminoglycosides - Streptomycin</td>
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<td>Cephalosporins - 3rd generation cephalosporins</td>
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</tr>
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<td>Fluoroquinolones - Ciprofloxacin</td>
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<td>Penicillins - Ampicillin</td>
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<td>Sulfonamides</td>
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<td>Tetracyclines - Tetracycline</td>
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<tr>
<td>Trimethoprim</td>
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<td>Fully sensitive</td>
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<td>1</td>
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</tr>
<tr>
<td>Resistant to 1 antimicrobial</td>
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<tr>
<td>Resistant to 2 antimicrobials</td>
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<td>Resistant to 3 antimicrobials</td>
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## Table Cut-off values for antibiotic resistance testing of Salmonella in Animals

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<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
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<tbody>
<tr>
<td>Broth dilution</td>
<td>NCCLS/CLSI EUCAST</td>
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<table>
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<tr>
<th>Class</th>
<th>Antibiotic</th>
<th>Standard</th>
<th>Resistant &gt;</th>
<th>Resistant &lt;=</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
<td>EFSA</td>
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<tr>
<td></td>
<td>Streptomycin</td>
<td>EFSA</td>
<td>32</td>
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</tr>
<tr>
<td>Amphenicols</td>
<td>Chloramphenicol</td>
<td>EFSA</td>
<td>16</td>
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<td>Cephalosporins</td>
<td>Cefotaxime</td>
<td>EFSA</td>
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<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
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<td>Penicillins</td>
<td>Ampicillin</td>
<td>EFSA</td>
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<td>EFSA</td>
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<td>Trimethoprim</td>
<td>EFSA</td>
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</table>
Table Cut-off values for antibiotic resistance testing of Salmonella in Feed

<table>
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<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
</tbody>
</table>

| 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

<table>
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<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
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</thead>
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<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
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<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Amphenicol</td>
<td>Chloramphenicol</td>
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<td>Cephalosporins</td>
<td>Cefotaxime</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Ampicillin</td>
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<td>Quinolones</td>
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<tr>
<td>Sulfonamides</td>
<td>Sulfonamides</td>
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<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
</tr>
<tr>
<td>Trimethoprim</td>
<td>Trimethoprim</td>
</tr>
</tbody>
</table>
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 Community 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 стрategies in place
NO DATA AVAILABLE

Recent actions taken to control the zoonoses
NO DATA AVAILABLE

Suggestions to the Community for the actions to be taken
NO DATA AVAILABLE

Measures in case of the positive findings or single cases
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<thead>
<tr>
<th>Source of information</th>
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<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
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<th>C. jejuni</th>
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</thead>
<tbody>
<tr>
<td>Meat from rabbit - carcase - chilled - at slaughterhouse - Surveillance</td>
<td>Veterinary Services, LCFAO</td>
<td>Official sampling</td>
<td>food sample &gt; meat</td>
<td>Slaughter batch</td>
<td>20</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>Campylobacter spp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. lari</td>
<td>0</td>
</tr>
<tr>
<td>C. upsaliensis</td>
<td>0</td>
</tr>
<tr>
<td>Thermophilic Campylobacter spp., unspecified</td>
<td>0</td>
</tr>
</tbody>
</table>
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 стратегии in place
NO DATA AVAILABLE

Recent actions taken to control the zoonoses
NO DATA AVAILABLE

Suggestions to the Community 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 Community 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 - 2011 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
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 Community 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 - 2011 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 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 Community 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 стрategies in place
    NO DATA AVAILABLE
  Recent actions taken to control the zoonoses
    NO DATA AVAILABLE
  Suggestions to the Community 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 Community 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 стрategies in place
NO DATA AVAILABLE

Recent actions taken to control the zoonoses
NO DATA AVAILABLE

Suggestions to the Community 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

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
</tr>
</tbody>
</table>
### Table Cut-off values used for antimicrobial susceptibility testing of C. coli in Feed

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
</tr>
</tbody>
</table>
Table Cut-off values used for antimicrobial susceptibility testing of C. coli in Food

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Zone diameter (mm)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
</tr>
</tbody>
</table>
### Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Animals

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
<td>2</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
<td>1</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
<td>4</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
<td>2</td>
</tr>
</tbody>
</table>
### Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Feed

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gentamicin</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Streptomycin</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macrolides</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Erythromycin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetracyclines</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Tetracycline</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table Cut-off values used for antimicrobial susceptibility testing of C. jejuni in Food

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Resistant &gt;</td>
<td>Resistant &lt;=</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gentamicin</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Streptomycin</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Macrolides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erythromycin</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetracycline</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
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 Community 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

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for L. monocytogenes</th>
<th>Units tested with detection method</th>
<th>Listeria monocytogenes presence in x g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>1213</td>
<td>0</td>
<td>1213</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>270</td>
<td>0</td>
<td>270</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - cream - made from pasteurised milk - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>25</td>
<td>0</td>
<td>25</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - fermented dairy products - at processing plant - domestic production - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>60</td>
<td>0</td>
<td>60</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - yoghurt - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>475</td>
<td>0</td>
<td>475</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Milk, cows' - pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample &gt; milk</td>
<td>Batch</td>
<td>25 g</td>
<td>19</td>
<td>0</td>
<td>19</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Other products of animal origin - at processing plant - domestic production - Surveillance (Trachanas)</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25 g</td>
<td>30</td>
<td>0</td>
<td>30</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
### Table Listeria monocytogenes in milk and dairy products

<table>
<thead>
<tr>
<th>Units tested with enumeration method</th>
<th>&gt; detection limit but &lt;= 100 cfu/g</th>
<th>L. monocytogenes &gt; 100 cfu/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - at processing plant - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - cream - made from pasteurised milk - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - fermented dairy products - at processing plant - domestic production - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dairy products (excluding cheeses) - yoghurt - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Milk, cows' - pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other products of animal origin - at processing plant - domestic production - Surveillance (Trachanas)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Source of information</td>
<td>Sampling strategy</td>
<td>Sampler</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from pig - fresh - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from pig - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Meat from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Fish - smoked - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Crustaceans - unspecified - cooked - at processing plant - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Crustaceans - unspecified - cooked - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
<tr>
<td>Molluscan shellfish - cooked - at retail - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
</tr>
</tbody>
</table>
**Table Listeria monocytogenes in other foods**

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for L. monocytogenes</th>
<th>Units tested with detection method</th>
<th>Listeria monocytogenes presence in x g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready-to-eat salads</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for L. monocytogenes</th>
<th>Units tested with detection method</th>
<th>Listeria monocytogenes presence in x g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meats from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from pig - fresh - at processing plant - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from pig - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from pig - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from bovine animals - meat products - cooked, ready-to-eat - at processing plant - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meats from bovine animals - meat products - cooked, ready-to-eat - at retail - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fish - smoked - at processing plant - Surveillance</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
### Table Listeria monocytogenes in other foods

<table>
<thead>
<tr>
<th></th>
<th>Units tested with enumeration method</th>
<th>&gt; detection limit but &lt;= 100 cfu/g</th>
<th>L. monocytogenes &gt; 100 cfu/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crustaceans - unspecified - cooked - at processing plant - Surveillance</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Crustaceans - unspecified - cooked - at retail - Surveillance</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Molluscan shellfish - cooked - at retail - Surveillance</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ready-to-eat salads</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
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 Community 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**

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Analytical Method</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for</th>
<th>Verotoxigenic E. coli (VTEC) - VTEC O157</th>
</tr>
</thead>
</table>
| Meat from bovine animals - meat preparation - intended to be eaten cooked - frozen - at retail - imported - Surveillance | LCFAO | Official sampling | food sample > meat | ISO 16654:2001 | Batch | 25 g | 5 | 0 | 0 |;

<table>
<thead>
<tr>
<th>Verotoxigenic E. coli (VTEC) - VTEC non-O157</th>
<th>Verotoxigenic E. coli (VTEC) - VTEC, unspecified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meat from bovine animals - meat preparation - intended to be eaten cooked - frozen - at retail - imported - Surveillance</td>
<td>0</td>
</tr>
</tbody>
</table>
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 Community 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
Cyprus - 2011 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
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. The 1975 campaign was assisted by FAO’s epizootiologist Dr. Petar Markovic. 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 prove that the animals which have initially reacted positively or inconclusively to the tuberculin test were retested according to Directive 64/432/EEC provisions 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 Cyprus exercises 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

In 2011, 273 holdings beared the Bovine Tuberculosis Officially Free Status (BTBOFS) with the target number of holdings been 324 in total.

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 HASN’T 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 2011 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 2011, 273 holdings were bearing the Bovine Tuberculosis Officially Free Status (BTBOFS). The target number of holdings was 324.

**Monitoring system**

**Sampling strategy**

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

**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 TBOFS if all its animals are subjected to tuberculin test every year.

**Type of specimen taken**

Tuberculosis skin reaction.

**Methods of sampling (description of sampling techniques)**

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

**Case definition**

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

If it yields a positive 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 in the case of positive necrotomical findings.

**Diagnostic/analytical methods used**

1) Single and comparative Tuberculin skin tests (Bovine and Avian tuberculin)

2) Post-mortem examination.

3) Microbiological examination.

**Vaccination policy**

Not applicable.

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 Bovine Tuberculosis Officially Free Status (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 2011, 273 holdings were bearing the Bovine Tuberculosis Officially Free Status (BTBOFS). The target number of holdings was 324.
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 Community 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.

<table>
<thead>
<tr>
<th>Region</th>
<th>Herds</th>
<th>Animals</th>
<th>Number of herds</th>
<th>%</th>
<th>Number of herds</th>
<th>%</th>
<th>Interval between routine tuberculin tests</th>
<th>Number of animals tested</th>
<th>Number of animals with suspicious lesions of tuberculosis examined and submitted to histopathological and bacteriological examination</th>
<th>Number of animals detected positive in bacteriological examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>324</td>
<td>56374</td>
<td>273</td>
<td>84.26</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>40642</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total :</td>
<td>324</td>
<td>56374</td>
<td>273</td>
<td>84.26</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>40642</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Comments:

1) ALL REGIONS
2) N.A.

Footnote:
The total number of existing bovine herds and bovine animals as per the Bovine Tuberculosis refers to the bovine herds and bovine animals under the Tuberculosis erradication and control program applied.
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:
- the neighboring with known infected farms (most common)
- common use of machines
- illegal movements of animals from known infected farms
- 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
The 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
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
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 2-40°C, 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 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.

Complement fixation test: Dilution of serum starts from ¼ 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 37°C with and without CO2. Confirmation on the species
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.
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.
Cyprus - 2011 Report on trends and sources of zoonoses

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 2-40°C, 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 ¼ until 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.
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 being granted the BOF status.
<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Units tested</th>
<th>Total units positive for Brucella</th>
<th>B. abortus</th>
<th>B. melitensis</th>
<th>B. suis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigs</td>
<td>Veterinary Services</td>
<td>Selective sampling</td>
<td>Official sampling</td>
<td>animal sample &gt; blood</td>
<td>Animal</td>
<td>994</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pigs</td>
<td>Beef</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table Brucellosis in other animals**
Table Bovine brucellosis - data on herds - Community co-financed eradication programmes

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Total number of herds</th>
<th>Total number of herds under the programme</th>
<th>Number of herds checked</th>
<th>Number of positive herds</th>
<th>Number of new positive herds</th>
<th>Number of herds depopulated</th>
<th>% positive herds depopulated</th>
<th>% herd coverage</th>
<th>% positive herds Period herd prevalence</th>
<th>% new positive herds Herd Incidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>356</td>
<td>308</td>
<td>302</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>98.05</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total :</td>
<td>356</td>
<td>308</td>
<td>302</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>98.05</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total - 1</td>
<td>361</td>
<td>320</td>
<td>281</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>87.81</td>
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<td>0</td>
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</table>

Comments:

1) N.A.
### Table Ovine or Caprine brucellosis - data on herds - Community co-financed eradication programmes

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Total number of herds</th>
<th>Total number of herds under the programme</th>
<th>Number of herds checked</th>
<th>Number of positive herds</th>
<th>Number of new positive herds</th>
<th>Number of herds depopulated</th>
<th>% positive herds depopulated</th>
<th>Indicators</th>
<th>% herd coverage</th>
<th>% positive herds prevalence</th>
<th>% new positive herds Herd Incidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>3362</td>
<td>3156</td>
<td>3036</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>96.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total :</td>
<td>3362</td>
<td>3156</td>
<td>3036</td>
<td>0</td>
<td>0</td>
<td>N.A.</td>
<td>96.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total - 1</td>
<td>3327</td>
<td>3185</td>
<td>3007</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>94.41</td>
<td>.07</td>
<td>.03</td>
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</table>

Comments:

1) N.A.
### Table Bovine brucellosis - data on animals - Community co-financed eradication programmes

<table>
<thead>
<tr>
<th>Region</th>
<th>Total number of animals</th>
<th>Number of animals to be tested under the programme</th>
<th>Number of animals tested</th>
<th>Number of animals tested individually</th>
<th>Number of positive animals</th>
<th>Slaughtering</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>58127</td>
<td>38474</td>
<td>38428</td>
<td>2046</td>
<td>0</td>
<td>0</td>
<td>99.88</td>
</tr>
<tr>
<td>Total :</td>
<td>58127</td>
<td>38474</td>
<td>38428</td>
<td>2046</td>
<td>0</td>
<td>0</td>
<td>99.88</td>
</tr>
<tr>
<td>Total - 1</td>
<td>56180</td>
<td>37757</td>
<td>36908</td>
<td>3231</td>
<td>0</td>
<td>0</td>
<td>97.75</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Region</th>
<th>Total number of animals</th>
<th>Number of animals to be tested under the programme</th>
<th>Number of animals tested</th>
<th>Number of animals tested individually</th>
<th>Number of positive animals</th>
<th>Slaughtering</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Number of animals with positive result slaughtered or culled</td>
<td>Total number of animals slaughtered</td>
</tr>
<tr>
<td>Kύπρος / Kıbrıs</td>
<td>583790</td>
<td>512179</td>
<td>245766</td>
<td>245766</td>
<td>0</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>Total :</td>
<td>583790</td>
<td>512179</td>
<td>245766</td>
<td>245766</td>
<td>0</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>Total - 1</td>
<td>538823</td>
<td>444220</td>
<td>252228</td>
<td>252228</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>

Comments:

1) N.A.
**Table Bovine brucellosis - data on status of herds at the end of the period - Community co-financed eradication programmes**

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Herds</th>
<th>Animals</th>
<th>Herds</th>
<th>Animals</th>
<th>Herds</th>
<th>Animals</th>
<th>Herds</th>
<th>Animals</th>
<th>Herds</th>
<th>Animals</th>
<th>Herds</th>
<th>Animals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>308</td>
<td>38474</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>17</td>
<td>136</td>
<td>0</td>
<td>0</td>
<td>291</td>
<td>38338</td>
</tr>
<tr>
<td>Total :</td>
<td>308</td>
<td>38474</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>17</td>
<td>136</td>
<td>0</td>
<td>0</td>
<td>291</td>
<td>38338</td>
</tr>
<tr>
<td>Total - 1</td>
<td>320</td>
<td>37757</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>61</td>
<td>2673</td>
<td>0</td>
<td>0</td>
<td>259</td>
<td>35084</td>
</tr>
</tbody>
</table>

Comments:

1) N.A.
### Table Ovine or Caprine Brucellosis in countries and regions that do not receive Community co-financing for eradication programme

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Total number of existing</th>
<th>Officially free herds</th>
<th>Infected herds</th>
<th>Surveillance</th>
<th>Investigations of suspect cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Herds</td>
<td>Animals</td>
<td>Number of herds</td>
<td>%</td>
<td>Number of herds</td>
</tr>
<tr>
<td>Κύπρος / Kıbrıs</td>
<td>3156</td>
<td>512179</td>
<td>2861</td>
<td>90.65</td>
<td>0</td>
</tr>
<tr>
<td>Total :</td>
<td>3156</td>
<td>512179</td>
<td>2861</td>
<td>90.65</td>
<td>0</td>
</tr>
</tbody>
</table>

Comments:

1) 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 Community for the actions to be taken

NO DATA AVAILABLE

Additional information

NO DATA AVAILABLE
2.7.2 Yersiniosis in humans

A. Yersiniosis 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 стратегies in place
NO DATA AVAILABLE

Recent actions taken to control the zoonoses
NO DATA AVAILABLE

Suggestions to the Community 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
2.8 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.

The data will be submitted by the Ministry of Health colleagues through the ECDC data base.
2.8.3 Trichinella in animals

A. Trichinella in horses

Monitoring system
Sampling strategy
No horse meat consumption is practiced in Cyprus.
**B. Trichinella in pigs**

Number of officially recognised Trichinella-free holdings

The disease is not present in Cyprus.
### Table Trichinella in animals

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Units tested</th>
<th>Total units positive for Trichinella</th>
<th>T. spiralis</th>
<th>Trichinella spp., unspecified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigs - fattening pigs - raised under controlled housing conditions - at slaughterhouse - Surveillance</td>
<td>Official sampling</td>
<td>food sample &gt; meat</td>
<td>Animal</td>
<td>680964</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigs - breeding animals - raised under controlled housing conditions - sows and boars - at slaughterhouse - Surveillance</td>
<td>Official sampling</td>
<td>food sample &gt; meat</td>
<td>Animal</td>
<td>18358</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 Echinococciosis 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 YEARLY. SURVEILLANCE OF HUMAN CASES IS CONSIDERED IMPORTANT TO EVALUATE THE PREVENTIVE PROGRAMS IN ANIMALS

Additional information
The data for humans will be furnished by the colleagues of the Ministry of Health through the ECDC database network.
### 2.9.3 Echinococcus in animals

#### Table Echinococcus in animals

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Region</th>
<th>Units tested</th>
<th>Total units positive for Echinococcus</th>
<th>E. granulosus</th>
<th>E. multilocularis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>Objective sampling</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>16</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cattle (bovine animals) - adult cattle over 2 years - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Goats - animals over 1 year - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>250</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mouflons - wild - unspecified - Monitoring - passive (The samples concern the Cypriot mouflon species of Ovis orientalis ophion)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>29</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Pigs - unspecified - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rabbits - farmed - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>45</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sheep - animals over 1 year - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>Unspecified</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>Animal</td>
<td>Κύπρος / Κιβρις</td>
<td>453</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Echinococcus spp., unspecified**

| Dogs | 0 |
### Table Echinococcus in animals

<table>
<thead>
<tr>
<th>Animal Type</th>
<th>Echinococcus spp.</th>
<th>Monitoring Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle (bovine animals) - adult cattle over 2 years - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Goats - animals over 1 year - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Mouflons - wild - unspecified - Monitoring - passive (The samples concern the Cypriot mouflon species of Ovis orientalis ophion)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Pigs - unspecified - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Rabbits - farmed - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Sheep - animals over 1 year - unspecified - Monitoring - passive (Necropsy checks)</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
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 Community 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

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Analytical Method</th>
<th>Sampling unit</th>
<th>Units tested</th>
<th>Total units positive for Toxoplasma</th>
<th>T. gondii</th>
<th>Toxoplasma spp., unspecified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheep and goats - at farm - Clinical investigations</td>
<td></td>
<td></td>
<td>animal sample &gt; blood</td>
<td></td>
<td>ELISA</td>
<td>Animal</td>
<td>268</td>
<td>76</td>
<td>76</td>
<td></td>
</tr>
</tbody>
</table>
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 departure 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 Cyprus 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 MICROBIOLOGY 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 departurere 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 Cyprus 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
Cyprus - 2011 Report on trends and sources of zoonoses

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 checks 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**

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>S. aureus, meticillin resistant (MRSA) - spa-type t011</th>
<th>Total units positive for Staphylococcus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - at processing plant - domestic production - Surveillance (The milk used was pasteurized)</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>1483</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Meat from rabbit - carcass - chilled - at slaughterhouse - Surveillance</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample &gt; meat</td>
<td>Batch</td>
<td>10 g</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other products of animal origin - at processing plant - domestic production - Surveillance (It concerns the local product Trachanas)</td>
<td>LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>25g</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- **S. aureus, meticillin resistant (MRSA) - spa-type t011**
  - Cheeses, made from mixed milk from cows, sheep and/or goats - at processing plant - domestic production - Surveillance (The milk used was pasteurized) | 6 |
### Table Staphylococcus in Food

<table>
<thead>
<tr>
<th></th>
<th>S. aureus, meticillin resistant (MRSA) - spa-type t108</th>
<th>S. aureus, meticillin resistant (MRSA) - spa-type t034</th>
<th>S. aureus, meticillin resistant (MRSA) - MRSA, unspecified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meat from rabbit - carcase - chilled - at slaughterhouse - Surveillance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other products of animal origin - at processing plant - domestic production - Surveillance (It concerns the local product Trachanas)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Analytical Method</th>
<th>Sampling unit</th>
<th>Units tested</th>
<th>Total units positive for Coxiella (Q-fever)</th>
<th>C. burnetii</th>
<th>No of clinically affected herds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle (bovine animals) - at farm - Clinical investigations</td>
<td>Convenience sampling</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>PCR</td>
<td>Animal</td>
<td>18</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sheep - at farm - Clinical investigations</td>
<td>Convenience sampling</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>PCR</td>
<td>Animal</td>
<td>71</td>
<td>25</td>
<td>25</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Goats - at farm - Clinical investigations</td>
<td>Convenience sampling</td>
<td>Official sampling</td>
<td>animal sample</td>
<td>PCR</td>
<td>Animal</td>
<td>71</td>
<td>29</td>
<td>29</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
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 Community 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

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Amphenicols</td>
<td>Chloramphenicol</td>
</tr>
<tr>
<td>Cephalosporins</td>
<td>Cefotaxime</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Ampicillin</td>
</tr>
<tr>
<td>Quinolones</td>
<td>Nalidixic acid</td>
</tr>
<tr>
<td>Sulfonamides</td>
<td>Sulfonamides</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
</tr>
<tr>
<td>Trimethoprim</td>
<td>Trimethoprim</td>
</tr>
</tbody>
</table>
Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Animals

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>Susceptibility</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amoxicillin</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
<tr>
<td>Gentamicin</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
<tr>
<td>Tetracycline</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
<tr>
<td>Trimethoprim</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
<tr>
<td>Vancomycin</td>
<td>Sensitive</td>
<td>Resistant</td>
</tr>
</tbody>
</table>
## Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Feed

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td><strong>Aminoglycosides</strong></td>
<td>Gentamicin</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
<td>16</td>
</tr>
<tr>
<td><strong>Amphenicols</strong></td>
<td>Chloramphenicol</td>
<td>16</td>
</tr>
<tr>
<td><strong>Cephalosporins</strong></td>
<td>Cefotaxime</td>
<td>0.25</td>
</tr>
<tr>
<td><strong>Fluroquinolones</strong></td>
<td>Ciprofloxacin</td>
<td>0.03</td>
</tr>
<tr>
<td><strong>Penicillins</strong></td>
<td>Ampicillin</td>
<td>8</td>
</tr>
<tr>
<td><strong>Quinolones</strong></td>
<td>Nalidixic acid</td>
<td>16</td>
</tr>
<tr>
<td><strong>Sulfonamides</strong></td>
<td>Sulfonamides</td>
<td>256</td>
</tr>
<tr>
<td><strong>Tetracyclines</strong></td>
<td>Tetracycline</td>
<td>8</td>
</tr>
<tr>
<td><strong>Trimethoprim</strong></td>
<td>Trimethoprim</td>
<td>2</td>
</tr>
</tbody>
</table>
Table Cut-off values used for antimicrobial susceptibility testing of Escherichia coli, non-pathogenic in Food

<table>
<thead>
<tr>
<th>Standard methods used for testing</th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
<td>16</td>
</tr>
<tr>
<td>Amphenicol</td>
<td>Chloramphenicol</td>
<td>16</td>
</tr>
<tr>
<td>Cephalosporins</td>
<td>Cefotaxime</td>
<td>0.25</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>Ciprofloxacin</td>
<td>0.03</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Ampicillin</td>
<td>8</td>
</tr>
<tr>
<td>Quinolones</td>
<td>Nalidixic acid</td>
<td>16</td>
</tr>
<tr>
<td>Sulfonamides</td>
<td>Sulfonamides</td>
<td>256</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
<td>8</td>
</tr>
<tr>
<td>Trimethoprim</td>
<td>Trimethoprim</td>
<td>2</td>
</tr>
</tbody>
</table>
# 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

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Zone diameter (mm)</td>
</tr>
<tr>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td></td>
<td>Resistant &lt;=</td>
</tr>
<tr>
<td><strong>Aminoglycosides</strong></td>
<td></td>
</tr>
<tr>
<td>Gentamicin</td>
<td>32</td>
</tr>
<tr>
<td>Streptomycin</td>
<td>512</td>
</tr>
<tr>
<td><strong>Amphenicols</strong></td>
<td></td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>32</td>
</tr>
<tr>
<td><strong>Glycopeptides (Cyclic peptides, Polypeptides)</strong></td>
<td></td>
</tr>
<tr>
<td>Vancomycin</td>
<td>4</td>
</tr>
<tr>
<td><strong>Macrolides</strong></td>
<td></td>
</tr>
<tr>
<td>Erythromycin</td>
<td>4</td>
</tr>
<tr>
<td><strong>Oxazolidines</strong></td>
<td></td>
</tr>
<tr>
<td>Linezolid</td>
<td>4</td>
</tr>
<tr>
<td><strong>Penicillins</strong></td>
<td></td>
</tr>
<tr>
<td>Ampicillin</td>
<td>4</td>
</tr>
<tr>
<td><strong>Streptogramins</strong></td>
<td></td>
</tr>
<tr>
<td>Quinupristin/Dalfopristin</td>
<td>32</td>
</tr>
</tbody>
</table>
### Table Cut-off values for antibiotic resistance of E. faecalis in Animals

<table>
<thead>
<tr>
<th>Tetracyclines</th>
<th>Tetracycline</th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
Table Cut-off values for antibiotic resistance of E. faecalis in Feed

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gentamicin</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Streptomycin</td>
<td></td>
<td>512</td>
</tr>
<tr>
<td>Amphenicols</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Glycopeptides (Cyclic peptides, Polypeptides)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vancomycin</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Macrolides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erythromycin</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Oxazolidines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linezolid</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Penicillins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ampicillin</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Streptogramins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quinupristin/Dalfopristin</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetracycline</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
### Table Cut-off values for antibiotic resistance of E. faecalis in Food

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Standard methods used for testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
</tr>
<tr>
<td>Amphenicols</td>
<td>Chloramphenicol</td>
</tr>
<tr>
<td>Glycopeptides (Cyclic peptides, Polypeptides)</td>
<td>Vancomycin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
</tr>
<tr>
<td>Oxazolidines</td>
<td>Linezolid</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Ampicillin</td>
</tr>
<tr>
<td>Streptogramins</td>
<td>Quinupristin/Dalfopristin</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
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### Table Cut-off values for antibiotic resistance of E. faecium in Animals

<table>
<thead>
<tr>
<th>Test Method Used</th>
<th>Concentration (microg/ml)</th>
<th>Zone diameter (mm)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Resistant &gt;</td>
</tr>
<tr>
<td>Aminoglycosides</td>
<td>Gentamicin</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Streptomycin</td>
<td>128</td>
</tr>
<tr>
<td>Amphenicols</td>
<td>Chloramphenicol</td>
<td>32</td>
</tr>
<tr>
<td>Glycopeptides (Cyclic peptides, Polypeptides)</td>
<td>Vancomycin</td>
<td>4</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
<td>4</td>
</tr>
<tr>
<td>Oxazolidines</td>
<td>Linezolid</td>
<td>4</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Ampicillin</td>
<td>4</td>
</tr>
<tr>
<td>Streptogramins</td>
<td>Quinupristin/Dalfopristin</td>
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<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
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### Table Cut-off values for antibiotic resistance of E. faecium in Feed

<table>
<thead>
<tr>
<th>Test Method Used</th>
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</thead>
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<tr>
<td></td>
<td>Concentration (microg/ml)</td>
</tr>
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<td>Standard</td>
</tr>
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</tr>
<tr>
<td></td>
<td>Streptomycin</td>
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</tr>
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<tr>
<td></td>
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<tr>
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<td>Gentamicin</td>
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<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>Tetracyclines</td>
<td>Tetracycline</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
4. INFORMATION ON SPECIFIC MICROBIOLOGICAL AGENTS
4.1 ENTEROBACTER SAKAZAKII

4.1.1 General evaluation of the national situation

A. Enterobacter sakazakii general evaluation

History of the disease and/or infection in the country

NO DATA AVAILABLE
4.1.2 Cronobacter in foodstuffs

A. Enterobacter sakazakii 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

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units in non-conformity</th>
<th>&lt;= 100 mg/kg</th>
<th>&gt;100 - &lt;= 200 mg/kg</th>
<th>&gt;200 - &lt;= 400 mg/kg</th>
<th>&gt; 400 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish - Fishery products from fish species associated with a high amount of histidine - not enzyme maturated - at processing plant - Surveillance 1)</td>
<td>Veterinary Services, LCFAO</td>
<td>Batch</td>
<td>95g, 100 g, 185 g, 200 g</td>
<td>126</td>
<td>0</td>
<td>126</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish - Fishery products which have undergone enzyme maturation treatment in brine - at processing plant - Surveillance 2)</td>
<td>Veterinary Services, LCFAO</td>
<td>Batch</td>
<td>100 g, 185 g, 200 g</td>
<td>54</td>
<td>0</td>
<td>54</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Sampler</th>
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<td>Batch</td>
<td>95g, 100 g, 185 g, 200 g</td>
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<td>0</td>
<td>126</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish - Fishery products which have undergone enzyme maturation treatment in brine - at processing plant - Surveillance 2)</td>
<td>Veterinary Services, LCFAO</td>
<td>Batch</td>
<td>100 g, 185 g, 200 g</td>
<td>54</td>
<td>0</td>
<td>54</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments:

1) Samples came from the Border Inspection Posts as well as from the Official inspections performed at the storage places.

2) Samples came from the Border Inspection Posts
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

<table>
<thead>
<tr>
<th>Source of information</th>
<th>Sampling strategy</th>
<th>Sampler</th>
<th>Sample type</th>
<th>Sample Origin</th>
<th>Sampling unit</th>
<th>Sample weight</th>
<th>Units tested</th>
<th>Total units positive for Staphylococcal enterotoxins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheeses, made from mixed milk from cows, sheep and/or goats - hard - made from pasteurised milk - at processing plant - domestic production - Surveillance</td>
<td>Veterinary Services, LCFAO</td>
<td>Official sampling</td>
<td>food sample</td>
<td>Batch</td>
<td>130 g, 250 g, 1670 g (3 different types of hard cheeses)</td>
<td>6</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Comments:

1) The cheeses were made from mixed sheep's and goat's milk made from pasteurised milk.
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, epidemiological 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 community for the actions to be taken
   NO DATA AVAILABLE

Additional information
   NO DATA AVAILABLE
### Table Foodborne Outbreaks: summarised data

<table>
<thead>
<tr>
<th>Pathogen/Group</th>
<th>Number of outbreaks</th>
<th>Number of outbreaks (strong evidence)</th>
<th>Weak evidence or no vehicle outbreaks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Human cases</td>
<td>Hospitalized</td>
<td>Deaths</td>
</tr>
<tr>
<td>Salmonella - S. Typhimurium</td>
<td>0</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Salmonella - S. Enteritidis</td>
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<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Salmonella - Other serovars</td>
<td>0</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Campylobacter</td>
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<td>unknown</td>
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</tr>
<tr>
<td>Listeria - Listeria monocytogenes</td>
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<tr>
<td>Listeria - Other Listeria</td>
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<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Yersinia</td>
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</tr>
<tr>
<td>Escherichia coli, pathogenic - Verotoxigenic E. coli (VTEC)</td>
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<td>unknown</td>
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</tr>
<tr>
<td>Bacillus - B. cereus</td>
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<td>unknown</td>
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</tr>
<tr>
<td>Bacillus - Other Bacillus</td>
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</tr>
<tr>
<td>Staphylococcal enterotoxins</td>
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<td>unknown</td>
</tr>
<tr>
<td>Clostridium - Cl. botulinum</td>
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</tr>
<tr>
<td>Clostridium - Cl. perfringens</td>
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<td>unknown</td>
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</tbody>
</table>
## Weak evidence or no vehicle outbreaks

<table>
<thead>
<tr>
<th></th>
<th>Number of outbreaks</th>
<th>Human cases</th>
<th>Hospitalized</th>
<th>Deaths</th>
<th>Strong evidence Number of Outbreaks</th>
<th>Total number of outbreaks</th>
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</thead>
<tbody>
<tr>
<td><strong>Clostridium - Other</strong></td>
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<tr>
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<td>0</td>
<td>0</td>
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<td><strong>Other Bacterial agents</strong></td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>- Brucella</strong></td>
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<td><strong>- Shigella</strong></td>
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<td><strong>Parasites - Trichinella</strong></td>
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<td><strong>Parasites - Giardia</strong></td>
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<tr>
<td><strong>Parasites - Other Parasites</strong></td>
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<td>unknown</td>
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<td><strong>Viruses - Norovirus</strong></td>
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<tr>
<td><strong>Other agents - Other Agents</strong></td>
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<td>unknown</td>
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<td>0</td>
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<tr>
<td>Unknown agent</td>
<td>Number of outbreaks</td>
<td>Human cases</td>
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<td>Total number of outbreaks</td>
</tr>
<tr>
<td>-----------------</td>
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<td>-------------</td>
<td>--------------</td>
<td>--------</td>
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</tr>
<tr>
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