



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL
Unit 04 - Veterinary Control Programmes

SANCO/10286/2009

Programmes for the eradication, control and monitoring of certain animal diseases and zoonoses

Control programme of *Salmonella* in breeding, laying and broiler flocks (*Gallus gallus*) and in flocks of turkeys (*Meleagris gallopavo*)

Approved* for 2010 by Commission Decision 2009/883/EC

Latvia

* in accordance with Council Decision 2009/470/EC

ANNEX II

**Food and Veterinary Service
Latvia**

Member State: Latvia

Disease: SALMONELLOSIS (ZOOONOTIC SALMONELLA: *S. Enteritidis*, *S. Typhimurium*) in laying hen of *Gallus gallus*

Animal population covered by the program: LAYING HENS (*Gallus gallus*)

Year of implementation: 2010

Reference of this document: PROGRAM FOR CONTROL OF SALMONELLOSIS (ZOOONOTIC SALMONELLA) IN LAYING HEN OF *GALLUS* CO-FINANCED BY THE COMMUNITY

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Part A

General requirements for the national salmonella control programmes

(a) The aim of the programme

The aim of the control programme for salmonellosis agents in flocks of laying hens of *Gallus gallus* (hereinafter – programme) is applied from the year 2008 is reduction of the prevalence of *Salmonella enteritidis* (SE) and *Salmonella typhimurium* (ST) in laying hens flocks and to ensure that adequate and effective measures for monitoring and control of Zoonotic salmonella infections are taken in laying flocks. The reduction of the prevalence of the Zoonotic salmonella in laying hens flocks is focused on achievement of the targets laying down in Commission Regulation (EC) No. 1168/2006.

In accordance with Commission Regulation (EC) No. 1168/2006, targets of the Programme are the following:

Annual minimum percentual decrease of adult laying hen positive flocks at least of:

- a) 10 %, in the case when prevalence in the previous year was under 10 %,
- b) 20 %, in the case when prevalence in the previous year was between 10 and 19 %,
- c) 30 %, in the case when prevalence in the previous year was between 20 and 39 %,
- d) 40 %, in the case when prevalence in the previous year was of 40 % or more.

(b) Minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council

Minimum sampling requirements are in accordance with sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council and in accordance with Commission Regulation (EC) 1168/2006.

Laying hens:

- rearing flocks — day-old chicks
- pullers two weeks before moving to laying phase or laying unit
- laying flocks — every 15 weeks during the laying phase

(c) Specific requirements laid down in Parts D of Annex II to Regulation (EC) No 2160/2003

The programme complies with the specific requirements laid down in Part D of Annex II to Regulation (EC) No 2160/2003.

1.1. A short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in the Member State with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council, particularly highlighting the prevalence values of the salmonella serovars targeted in the salmonella control programmes.

The prevalence of *Salmonella* in animals and food of animal origin has been monitored since middle of the past century. Most isolates originated from poultry (57,6%) and from pigs (28,9%). In cattle, *Salmonella* was isolated in lower numbers (8,6%).

In poultry and pigs, the species specific serotypes S. Pullorum, S. Gallinarum and S. Cholerasuis were isolated most often. Regarding zoonotic

Salmonella serotypes, S. Enteritidis (9,6% of isolates) and S. Typhimurium (2,8%) were the prevailing serotypes in poultry from 1967 until 2004. In pigs, mainly S. Typhimurium was found (0,8%), while in cattle S. Enteritidis (57,9%) and S. Dublin (35,4%) were the most prominent serotypes. In fur animals, three different zoonotic serotypes were isolated: S. Dublin (23,5%), S. Enteritidis (22,5%) and S. Typhimurium (20,6%).

In 2006, the surveillance of *Salmonella* spp. was based on the Order of Cabinet of Ministers Nr. 298 (21.04.2006.) „Procedures for prevention and combating of such infectious diseases as to which both animals and humans are susceptible”, as well as on Directive 2003/99/EC on the monitoring of zoonoses and zoonotic agents. Besides that, regulations implemented based on Directive No 92/117/EEK were still taken into account until the confirmation of control programmes in compliance with Regulation No. (UC) 2160/2003 on the control of salmonella and other specified food-borne zoonotic agents.

In 2007, sampling was carried out according to the requirements of the above mentioned Order of Cabinet of Ministers Nr. 298 (21.04.2006.) and Regulation (EC) No. 2160/2003 as well as Regulation (EC) No. 1003/2005/EC implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in breeding flocks of *Gallus gallus* and amending Regulation (EC) No. 2160/2003. A National Animal Health Surveillance Plan is set up every year and contains requirements of the listed laws and regulations. In 2007 S. Enteritidis was found in all positive laying hen flocks (20,5%), but additionally other serovars were detected in a few samples.

1.2. The structure and organisation of the relevant competent authorities

The structure of the Food and Veterinary service (hereinafter referred to as the FVS) is one of the main components of the mechanism that ensures the operational objectives and functions of the service.

- The FVS central office directs and coordinates the implementation of State functions delegated to the service.
- Territorial units (regional offices and one city office) are FVS administrative units that ensure monitoring within the territory of their region.

- The Sanitary Border Inspection (SBI) controls the import, transit and export of freight on the border in accordance with procedures laid down by the Cabinet of Ministers and requirements currently in force.
 - The National Diagnostic Centre (NDC) performs laboratory testing together with territorial units relating to the circulation of food, the diagnosis of infectious human diseases, the diagnosis of infectious animal diseases and ensures testing relating to the environment and environmental sanitary hygiene, as well as the circulation of veterinary medicines, pharmaceutical products, feedingsstuffs and feed ingredients; performs the tasks of the national reference laboratory on the basis of authorisation and organises inter-laboratory comparative testing.

Official checks at other stages of the food chain

The control of zoonotic pathogens in food of animal origin, including veterinary expertise at slaughterhouses, is one of the tasks of the FVS Food Surveillance Department.

Based on EU and Latvian legislation, national control programmes are developed.

The Public Health Agency and the State Agency of Tuberculosis and Lung Diseases are responsible for the surveillance of zoonoses in humans in Latvia. Infectious diseases are notifiable according to the Regulation of the Cabinet of Ministers No. 7 of 5 January 1999 "Procedure of Notification of Infectious Diseases".

1.3. Approved laboratories where samples collected within the programme are analysed.

The FVS NDC performs the functions of the national reference laboratory in Latvia, with regard to the diagnosis of infectious animal diseases. All NDC laboratories are accredited in the national accreditation system LATAK in accordance with Latvian standard LVS EN ISO/IEC 17025.

Food and Environment Testing Laboratory is accredited also in DAP (Germany) and TTOCTP (Russia) accreditation, but Animal Diseases Diagnostic Laboratory - in DAP (Germany) accreditation.

1.4. Methods used in the examination of the samples in the framework of the programme.

Methods used in the examination will be performing in accordance with Annex of Commission Regulation (EC) No 1168/2006.

Sampling is carried out in accordance with minimum requirements of Part B of Annex II to Regulation (EC) of the European Parliament and of the Council No. 2160/2003 and Commission Regulation (EC) No. 1168/2006.

Laboratory examination comprising *detection of Salmonella spp.* shall be carried out in accordance with the method recommended by the Community RL in Bilthoven, Netherlands. The method is a modification of ISO 6579 (2002), where a semi-solid medium (MSRV) is used as the single selective enrichment medium.

The isolates from positives samples are **serotyped** following the Kauffmann-White scheme and the **antimicrobial resistance** is determined following the CLSI method with the minimum inhibitory concentration (MIC). Isolated strains are stored in accordance with requirements. In case of isolates of *Salmonella* serovar *Typhimurium* and *Salmonella* serovar *Enteritidis* are phage typed.

1.5. Official controls (including sampling schemes) at feed, flock and/or flock level.

Official sampling at flock level:

- a) in one flock once per year, and/or
- b) at the age of 24 + 2 weeks in laying flocks housed in buildings where salmonella was detected in the preceding flock; and/or
- c) in any case of suspicion on *Salmonella enteritidis* or *Salmonella typhimurium* infection, as a result of the epidemiological investigation of food-borne outbreaks, in accordance with Article 8 of Directive 2003/99/EC of the European Parliament and of the Council;

- d) in all other laying flocks on the holding in case *Salmonella enteritidis* or *Salmonella typhimurium* are detected in one laying flock on the holding;
- e) in cases where the FVS considers it appropriate.

Sampling protocol for feeds and table eggs:

- a) Feed samples shall be taken in the frame of the national feed surveillance programme.
- b) Samples of table eggs shall be taken at egg sorting or packaging plants, either within the HACCP programme, or at any suspicion on zoonotic salmonella infection in primary production of table eggs."

1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella spp.* have been detected, in particular to protect public health, and any preventive measures taken, such as vaccination.

Measures taken in the case of salmonella detection (*S. enteritidis* and/or *typhimurium*) in faeces

The FVS shall order at least the following measures:

- 1) table eggs coming from infected flocks may be used for human consumption only if treated in a manner that guarantees the destruction of all *Salmonella* serotypes with public health significance in accordance with Community legislation on food hygiene;

Eggs shall be:

- (a) considered as Class B eggs as defined in Article 2(4) of Commission Regulation (EC) No 557/2007 laying down detailed rules for implementing Council Regulation (EC) No 1028/2006 on marketing standards for eggs (1);

(b) marked with the indication referred to in Article 10 of Commission Regulation (EC) No 557/2007 which clearly distinguishes them from Class A eggs prior to being placed on the market;

(c) prohibited access to packaging centres unless the competent authority is satisfied with the measures to prevent possible cross-contamination of eggs from other flocks;

2) performance of bacteriological examination of feed for the presence of *Salmonella* spp. and water if necessary;

3) performance of thorough cleansing and disinfection; performance of thorough mechanical cleansing and disinfection, as well as safe removal of faeces and litter after completion of each production cycle;

When birds from infected flocks are slaughtered or destroyed, steps must be taken to reduce the risk of spreading zoonoses as far as possible. Slaughtering shall be carried out in accordance with Community legislation on food hygiene. Products derived from such birds may be placed on the market for human consumption in accordance with Community legislation on food hygiene. If not destined for human consumption, such products must be used or disposed of in accordance with Regulation (EC) No 1774/2002;

Thorough cleansing and disinfection, including safe removal of faeces or litter must be performed after slaughtering or killing of poultry from infected flocks;

4) In order to exclude false-positive initial results from the samples taken by operator, the State inspector from the FVS shall carry out official sampling for confirmation of the infection. The confirmation method shall be carried out according to Annex 1, 4 (b)(i) of Commission Regulation No

1237/2007, amending Regulation EC No 2160/2003 of the European Parliament and of the Council and Decision 2006/696/EC, as regards the placing on the market of eggs from Salmonella infected flocks of laying hens.

The confirmation method will be based on the technical specifications referred to in Article 5 of Commission Decision 2004/665/EC (seven samples); however, a sub-sample of 25 grams must be collected of each faecal material and dust sample for analysis; all samples must be analysed separately. The FVS may lift the restrictions if the flock is not confirmed by this confirmation method. In addition to the sampling, the FVS shall verify the absence of the use of antimicrobials, potentially affecting the result of the analyses of the sampling.

Use of antimicrobials shall be governed by Regulation (EC) No 1177/2006

- Antimicrobials (e.g. antibiotics) shall not be used as a special method for the control of *Salmonella* infections in poultry.
- **Only authorized antimicrobials are allowed to use in the Republic of Latvia and only authorised veterinarian may use antimicrobials.**
- Antimicrobials may be used only after authorisation by and under supervision of the FVS and they may be applied only in poultry showing clinical signs of the disease suggesting that an excessive suffering of birds could occur. Results of bacteriological examination and antimicrobial susceptibility test must be available prior to the treatment.
- In exceptional cases, antimicrobials may be applied prior to the results of bacteriological examination and anti-microbial susceptibility test are available, provided that samples are taken by the FVS State inspector prior to the application. If sampling has not been performed prior to the application of antimicrobials, flocks shall be considered infected by *Salmonella*.

Vaccination

Due to change of state economical situation vaccination programme of laying hens against zoonotic salmonella serotype S. *Enteritidis* was not implemented in Latvia.

1.7. National legislation relevant to the implementation of the programmes, including any national provisions concerning the activities set out in the programme.

- a) Regulation (EC) No. 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food-borne zoonotic agents;
- b) Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry;
- c) Commission Regulation (EC) No 1168/2006 of 31 July 2006 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in laying hens of Gallus Gallus and amending Regulation (EC) No 1003/2005;
- d) Commission Regulation EC No 1237/2007, amending Regulation EC No 2160/2003 of the European Parliament and of the Council and Decision 2006/696/EC, as regards the placing on the market of eggs from Salmonella infected flocks of laying hens;
- e) Directive 2003/99/EC of the European Parliament and of the Council of 17 November 2003 on the monitoring of zoonoses and zoonotic agents, amending Council Decision 90/424/EEC and repealing Council Directive 92/117/EEC;
- f) The Law on the Supervision of the Handling of Food;
- g) The Veterinary Medicine Law
- h) Regulation of Cabinet of Ministers No 177, 13 March 2005, "procedure according to which compensations are given or owners of animals receive compensations for losses which have arise due to eradication of epizootic diseases or animal infectious diseases, which are under state supervision";

- i) Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals";

1.8. Any financial assistance provided to food and feed businesses in the context of the programme.

Regulation of Cabinet of Ministers No 177, 13 March 2005, "Procedure according to which compensations are given or owners of animals receive compensations for losses which have arise due to eradication of epizootic diseases or animal infectious diseases, which are under state supervision" determines procedure according to which compensations are given or owner of animals receive compensations for losses which have arisen due to eradication of animal infectious diseases, which are under state supervision.

Inspector of the Food and veterinary service draws up a protocol regarding slaughtered animals, destroyed products, animal feed and materials.

2. Concerning food and feed businesses covered by the programme

2.3. Relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining at least:

Hygiene management at farms

The following biosecurity measures are recommended:

- a) All in-all out;
- b) Appropriate poultry keeping system to poultry species and category;
- c) Control of staff, visitors and vehicles;

- d) Vermin, feral animal and insect control;
- e) Control of feed and water supply; litter supply and disposal as well as;
- f) Appropriate cleaning and disinfection measures of equipment, buildings, vehicles adequate of poultry keeping technology.

In egg sorting/packaging plants that are parts of such holdings, HACCP principles shall be applied.

Measures to prevent incoming infections carried by animals, feed, drinking water, people working at farms:

The following biosecurity measures are recommended:

- g) Control of staff, visitors and vehicles;
- h) Vermin, feral animal and insect control;
- i) Control of feed and water supply;
- j) Control of domestic animals of site (pets and other animals, including livestock, must be kept away from poultry houses and service buildings).

Hygiene in transporting animals to and from farms

The following biosecurity measures are recommended:

- meet the requirements for animal transport of the species involved as to the construction, arrangement and equipment, do not affect animal health, do not cause any pain or suffering to animals, prevent the animals from escape or falling out and protect them from unfavourable weather effects;
- are protected so that water, feed, litter, faeces or other waste cannot leak or fall out of them;
- are cleaned and disinfected both before and after the transport.

2.4. Routine veterinary supervision of farms

All poultry flocks included in the programme are subjected to visual monitoring by veterinarians. Monitoring of flocks also includes schemes for taking own samples and official samples. Official samples are taken by FVS State inspectors.

2.5. Registration of farms

Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals"² determines order of individual identification of cattle, pigs, sheep, goats and horses and registration of holdings of agricultural animals, bee gardens, fishponds, hatcheries of aquatic animals.

To ensure common data registration system, Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC (formerly - Latvian state pedigree information data processing centre) is a state agency under the supervision of the Ministry of Agriculture that performs collection, processing and analysis of zootechnical, veterinary and agricultural data in the republic of Latvia to develop a uniform register of animals and herds (cattle, pigs, sheep, goats) and a pedigree information system according to international standards.

2.6. Record-keeping at farms.

According to the Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" animal owner summarizes information and develops register in written form or electronically on animals of certain (own) holding. Animal owner make changes in the register within three days on animal movement and keep it three years.

According to the Regulation of Cabinet of Ministers № 5, 2 January, 2008 "Welfare requirements for animal kept for farming purposes" animal owner develops "Animal medical treatment log" register, where owner keeps information on diseases cases as well as information regarding animal's cause of death and keep it three years.

According to the Regulation of Cabinet of Ministers No 407, 19 June, 2007 "Regulation of labelling, distribution and control of veterinary medicine" animal owner develops register on used veterinary medicine. As well as animal owner develops register on used feed.

2.7. Documents to accompany animals when dispatched

According to the Regulation of Cabinet of Ministers № 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" in case of animal movement owner or authorised veterinarian completes the declaration of animal movement and sends it to Agricultural Data Centre within seven days.

In the case of intra-Community trade, the consignment of animals have to be accompanied by the veterinary certificate in accordance with Commission Regulation (EC) No. 599/2004 concerning the adoption of a harmonised model certificate and inspection report linked to intra-Community trade in animals and products of animal origin.

2.8. Other relevant measures to ensure the traceability of animals.

The identification of a flock must be indicated in application form for laboratory examination.

Standard requirements for the submission of national programmes for the control of Salmonellosis (zoonotic Salmonella) as referred to in Article 1(b)

Part B

I. Identification of the programme

Member State: LATVIA

Disease(s)¹: SALMONELLOSIS (ZOOONOTIC SALMONELLA – *S. Enteritidis*, *S. Typhimurium*) in laying hens of *Gallus gallus*

Year of implementation: 2010.

Reference of this document: PROGRAM FOR CONTROL OF SALMONELLOSIS (ZOOONOTIC SALMONELLA IN LAYING HENS OF *GALLUS GALLUS*) CO-FINANCED BY THE COMMUNITY

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¹ One document per disease is used unless all measures of the programme on the target population are used for the monitoring, the control and eradication of different diseases.

2. Historical data on the epidemiological evolution of the disease(s)²:

The monitoring of salmonellosis of Latvian poultry production started in the 1967.

PVS staff or state authorised veterinarian notifies to PVS regional office:

- on infected poultry or poultry suspected to be infected by zoonotic salmonella;
- if zoonotic salmonella are detected on routinely sampling at holding.

3. Description of the submitted programme³:

The submitted program has been developed with the target for the reduction of salmonella serotypes with public health.

Within frame of program control of salmonellosis is ensured by testing of laying hens of *Gallus gallus* in all territory of Republic of Latvia. Testing is carried out according to the sampling requirements of the:

1) Regulation (EC) No 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food-borne zoonotic agents;

2) Commission Regulation (EC) № 1168/2006 of 31 July 2006 implementing regulation (EC) № 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in laying hens of *Gallus gallus* and amending Regulation (EC) № 1003/2005.

Positive case of salmonellosis (*S. Enteritidis*, *S. Typhimurium*) - confirmed positive by National Diagnostic centre. Examining of the samples is carried out using the method which is a modification of ISO 6579:2002, with the new medium – MSRV. The semi-solid medium should be incubated at 41,5 +/- 1°C for 2x (24-/-3) hours.

² A concise description is given with data on the target population (species, number of herds and animals present and under the programme), the main measures (testing, testing and slaughter, testing and killing, quantification of herds and animals, vaccination) and the main results (incidence, prevalence, quantification of herds and animals). The information is given according distinct periods if the measures were substantially modified. The information is documented by relevant summary epidemiological tables, graphs or maps.

³ A concise description of the programme is given with the main objective(s) (monitoring, control, eradication, quantification of herds and/or regions, reducing prevalence and incidence ...), the main measures (testing, testing and slaughter, testing and killing, quantification of herds and animals, vaccination ...), the target animal population and the area(s) of implementation and the definition of a positive case.

The isolates from positives samples are serotyped following the Kauffmann-White scheme and the **antimicrobial resistance** is determined following the CLSI method with the minimum inhibitory concentration (MIC). Isolated strains are stored in accordance with requirements. In case of isolates of *Salmonella* serovar *Typhimurium* and *Salmonella* serovar *Enteritidis* are phage typed.

Taking of official samples for laboratory testing within control programme is carried out by state veterinary officer.

Testing of laying hens in 2010 will start in January and will be completed not later than in December 2010.

4.

Measures of the submitted programme

4.1. Summary of measures under the programme

Duration of the programme:

First year: 2010

Last year: 2010

X Control

X Testing

- Slaughter of positive animals
- Killing of positive animals
 - Vaccination
 - Treatment
 - Disposal of products

† Monitoring or surveillance

— Other measures (specify):

- Testing
- Slaughter of positive animals
- Killing of positive animals
 - Extended slaughter or killing
 - Disposal of products

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme⁴:

- The Food and Veterinary Service (FVS) of the Republic of Latvia is a state administrative institution headed by the CVO and supervised by the Ministry of Agriculture. Regarding veterinary issues FVS ensures unified state surveillance and control over:
- prevention, control and eradication of animal contagious diseases and zoonoses; elaboration and implementation of animal disease surveillance programmes;
 - animal welfare;
 - animal registration, animal movements, import - export control;

⁴ Describe the authorities charged with supervising and coordinating the departments responsible for implementing the programme and the different operators involved.
Describe the responsibilities of all involved.

- the animal feed, veterinary drugs and veterinary pharmaceutical products.

The FVS consists of the central body placed in Riga and territorial structural units (the local level) – 10 regional offices and one city office (from 01.04.2009.). The central body coordinates activities of the local level and ensures a unified implementation of legislation. The local level carries out the official surveillance in accordance with the state surveillance programmes and reports to the central body.

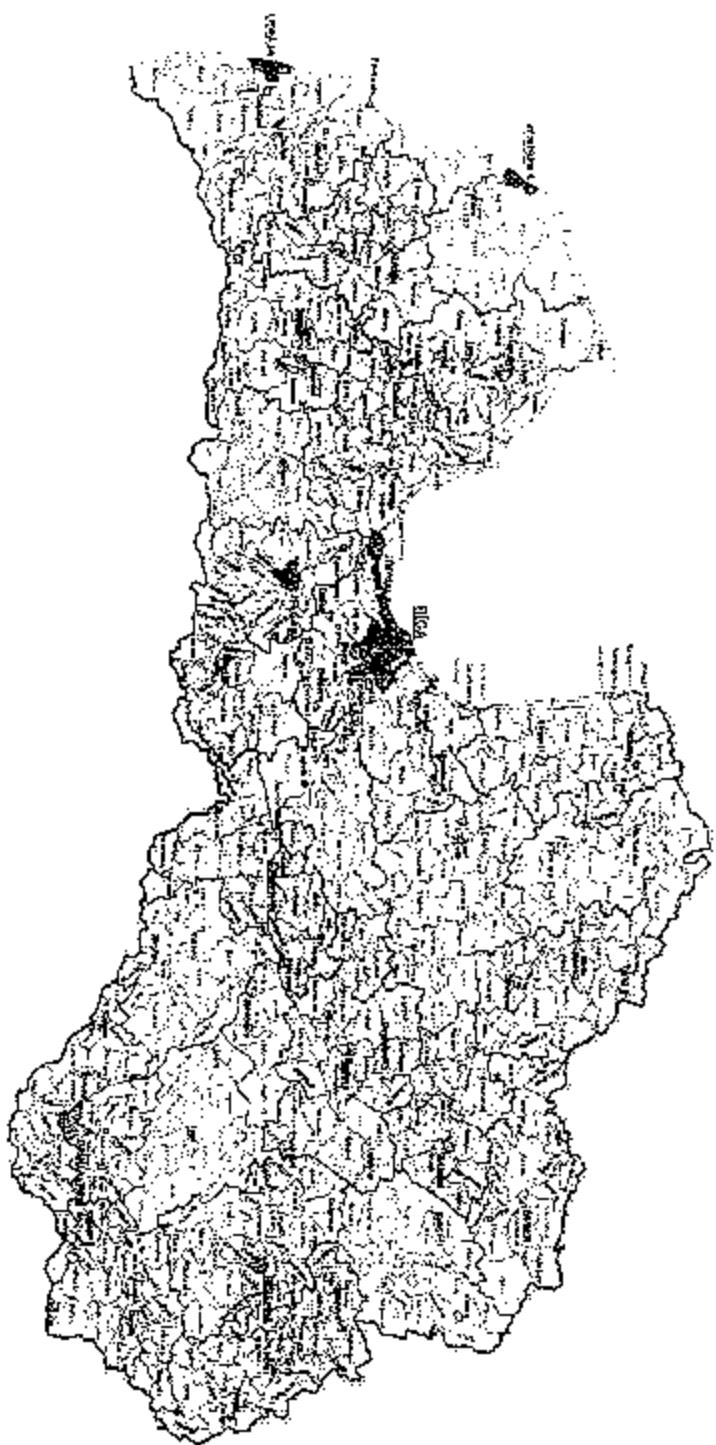
Heads of FVS regional offices make a contract with veterinary practitioners - state authorised veterinarians in the region concerned. FVS state authorised veterinarians to carry out certain functions provided within the state surveillance programmes. **Taking of official samples** for laboratory testing within surveillance programmes is **carried out by state veterinary officer**.

State veterinary officer – veterinary inspector of the Food and Veterinary Service (FVS).

State authorised veterinarian – a veterinarian designated by FVS to carry out specific official tasks on holdings.

Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The program will be implemented and applied in whole territory of Latvia. There are FVS territorial structural units 11 regional offices cover all administrative areas. The regional offices carry out the official surveillance in accordance with the state surveillance programmes in the administrative area concerned.



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- 1. Describe the name and denomination, the administrative boundaries, and the surface of the administrative and geographical areas in which the programme is to be applied.
 - 2. Illustrate with maps.

*4.4. Measures implemented under the programme⁶*⁷

4.4.1. Measures and terms of legislation as regards the registration of holdings:

Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" determines order of individual identification of cattle, pigs, sheep, goats and horses and registration of holdings of agricultural animals, bee gardens, fishponds, hatcheries of aquatic animals.

To ensure common data registration system, Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC (formerly - Latvian state pedigree information data processing centre) is a state agency under the supervision of the Ministry of Agriculture that performs collection, processing and analysis of zootechnical, veterinary and agricultural data in the republic of Latvia to develop a uniform register of animals and herds (cattle, pigs, sheep, goats) and a pedigree information system according to international standards.

4.4.2. Measures and terms of legislation as regards the identification of animals⁷:

According to the Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC gives number for holding and this number is not changed during holding or herd is active. Animal owner informs ADC on animal movement, liquidation of herd or holding, change of owners within seven days.

4.4.3. Measures and terms of legislation as regards the notification of the disease:

Animal owner, the person in charge, state authorised veterinarian notifies to IVS regional office:

- on infected poultry or poultry suspected to be infected by zoonotic salmonella;
- if zoonotic salmonella are detected on routinely sampling at holding.

⁶ Where appropriate Community legislation is mentioned. Otherwise the national legislation is mentioned.

⁷ Not applicable for poultry.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result⁸:

Measures in case of a positive result are taken according to Commission Regulation (EC) No 1237/2007 of 23 October 2007 amending Regulation (EC) No 2160/2003 of the European Parliament and of the Council and Decision 2006/696/EC as regards the placing on the market of eggs from *Salmonella* infected flocks of laying hens as follows:

I Action in suspicious cases

In the event of a positive laboratory test performed during own control, the owner or state authorised veterinarian informs the FVS territorial unit (TU) and a State veterinary officer takes official samples from the suspect poultry flock and sends them to the NDC for testing and specifies the measures to be taken and restrictions on the possibly affected holding until a diagnosis has been made:

- take samples (bedding, feeding stuffs, water, faecal samples, surface rinses) for laboratory testing to determine the possible paths and sources of infection;
- bacteriological testing of dead poultry;
- destroy dead birds using methods that reduce the risk of agents being spread where possible;
- place disinfectant mats at the entrance and exit of the house and other farm buildings;
- prohibit the taking in and removal of birds from an affected house;
- prohibit the removal of eggs from an affected house;
- control the movement of people who tend poultry;
- measures are taken to control pests and rodents.

II Action in cases of positive laboratory testing

As soon as a diagnosis has been officially approved, a State veterinary officer shall specify the measures that are to be taken on the affected holding:

⁸ A short description is provided of the measures as regards positive animals (slaughter, destination of carcasses, use or treatment of animal products, the destruction of all products which could transmit the disease or the treatment of such products to avoid any possible contamination, a procedure for the disinfection of infected holdings, the therapeutic or preventive treatment chosen, a procedure for the restocking with healthy animals of holdings which have been depopulated by slaughter and the creation of a surveillance zone around the infected holding...).

I. Measures to be taken in laying hens' house:

- place disinfectant mats at the entrance and exit of the house and other farm buildings;
- prohibit the taking in and removal of birds from an affected house and/or holding;
- control the movement of people who tend poultry;
- take samples (bedding, feeding stuffs, water, dust, faecal samples, surface rinses) for laboratory testing to determine the possible paths and sources of infection;
- bacteriological testing of dead birds;
- destroy dead birds using methods that reduce the risk of agents being spread where possible;
- eggs may be used for human consumption if they are treated in a manner that guarantees the elimination of salmonella in accordance with Community legislation on food hygiene;
- transfer and slaughter adult poultry separately from other poultry so as to reduce as much as possible the risk of spreading salmonella. Slaughtering must be carried out in accordance with Community legislation on food hygiene. Products derived from such birds may be placed on the market for human consumption in accordance with Community legislation on food hygiene.
- the house and surrounding area, as well as vehicles, equipment and other materials that may be contaminated with disease agents are cleaned, washed and disinfected under the supervision of an authorised veterinarian or state veterinary officer;
- feeding stuffs, bedding and other materials that may be contaminated with disease agents are disinfected under the supervision of an authorised veterinarian or state veterinary officer; manure are disinfected or subjected to biothermic treatment;
- the processing of eggs, as well as the slaughter of birds is documented;
- antimicrobials shall not be used, except circumstances referred in Article 2 of the Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry;
- measures are taken to control pests and rodents;

III Lifting of restrictions:

Restrictions are lifted by a State veterinary officer after the above measures have been taken and following receipt of a negative laboratory test, by inspecting samples of surface rinses from the holding following final disinfection.

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned⁹:

See above measures have been taken in the holding.

4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, ...) of the disease:

I. Samples of the flocks of laying hens are taken:

1.1. for day-old chicks:

- rinses from the internal surfaces of the container in which the chicks have been transported to the establishment;
- materials from chicks that have died during transportation;

1.2. four-week old birds; pooled faecal samples;

1.3. pullets two weeks before the start of the laying cycle; pooled faecal samples.

II. Samples from adult laying hens are taken every fifteen weeks. The first sampling shall take place at the age of 24 ± 2 weeks:

2.1. in cage flocks:

- two pooled faecal samples, from each house where birds are kept;

2.2. in barn or free range flocks:

- two pairs of boot swabs or socks;

III. The official samples mentioned in II. and dust sample are taken from adult laying hens flocks by a FVS inspector:

⁹ A short description of the control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas is provided.

- 3.1. in one flock per year per holding comprising at least 1000 birds;
- 3.2. at the age of 24 ± 2 weeks in laying flocks on the holdings housed in houses where salmonella was detected in the preceding year;
- 3.3. in any case of suspicion of *Salmonella Enteritidis* or *Salmonella Typhimurium* infection, as a result of the epidemiological investigation of food born outbreaks;
- 3.4. in cases where the FVS considers it appropriate.
- 3.5. a sampling carried out by FVS replaces one sampling at the initiative of the operator.

I V Surveillance system of *Salmonella spp.* in feedingstuffs

The State veterinary inspector selects the type of sample and the undertaking engaged in the circulation of feedingstuffs where the sample is to be taken by assessing the possible risks that may pose a serious threat to animal and human health at the object under supervision within the territorial unit – in accordance with instructions. In the event of positive laboratory test during the official control of feedingstuffs the inspector:

- informs the head of the territorial unit of the results of the analyses;
- informs the FVS Animal Feed Control Division and Zoonotic diseases surveillance unit without delay
 - recommend how feedingstuffs should be used (processed) or destroyed;
 - where appropriate informs, in writing, other territorial units involved in the distribution of non-compliant feedingstuffs.

V Vaccination

Vaccination against zoonotic salmonella is allowed in the Republic of Latvia.

The vaccinations carry out only in the parent breeding flocks of *Gallus gallus* so far.

According to the Commission regulation (EC) No 1177/2006 in case of authorisation of live vaccine against zoonotic salmonella, live salmonella vaccines for poultry, for which the manufacturer does not provide an appropriate method to distinguish bacteriologically wild-type strains of salmonella from vaccine strains, should be prohibited to use in the framework of national salmonella control programme.

Vaccination against *S. Pullorum* and *S. Gallinarum* is prohibited.

VI Use of antimicrobials

Use of antimicrobials for national control programme of salmonellosis is carried out on the basis of Commission regulation (EC) No 1177/2006 and in exceptional cases specified by this Regulation use of antimicrobials will be based wherever possible on the result of bacteriological sampling and of susceptibility testing.

Only authorized antimicrobials are allowed to use in the Republic of Latvia and only authorised veterinarian may use antimicrobials.

4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:

Regulation of Cabinet of Ministers No 177, 15 March 2005, "Procedure according to which compensations are given or owner of animals receive compensations for losses which have arose due to eradication of epizootics or animal infectious diseases." determines procedure according to which compensations are given or owner of animals receive compensations for losses which have arisen due to eradication or outbreaks of animal infectious diseases, which are under state supervision.

FVS state veterinary officer draws up a protocol regarding slaughtered animals, destroyed products, animal feed and materials.

4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved.

The following biosecurity measures are recommended:

- a) All in-all out;
- b) Appropriate poultry keeping system to poultry species and category;
- c) Control of staff, visitors and vehicles;
- d) Vermin, feral animal and insect control;
- e) Control of feed and water supply; litter supply and disposal as well as:

- f) Appropriate cleaning and disinfection measures of equipment, buildings, vehicles adequate of poultry keeping technology;
- g) Control of domestic animals of site (pets and other animals, including livestock, must be kept away from poultry houses and service buildings);
- h) Control of hygiene in animal transporting.

In egg sorting/packaging plants that are parts of such holdings, HACCP principles shall be applied.

5. General description of the costs and benefits¹⁰;

The total costs of the program -751 794,00 Euro.

The submitted programme has been developed with the target to established for the reduction of the prevalence of serotypes of zoonoses with public health significant according to the Commission Regulation (EC) No 1168/2006 of 31 July 2006 implementing regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in laying hens of *Gallus gallus* and amending Regulation (EC) No 1003/2005.

Benefits:

1. To limit distribution of products contaminated with salmonellosis agents in the market and reduce the infection risk of consumers;
2. Control and eradication of microorganisms of salmonella genus in the whole food chain (especially - in the primary production).
3. Keep in under control public and animal (poultry) health in the National and European Community level.

¹⁰ A description is provided of all costs for the authorities and society and the benefits for farmers and society in general.

6. Data on the epidemiological evolution during the last five years is as follows:

6.1. Evolution of the disease

Data on evolution of the disease (one table per year and per disease/species)

Үсэгтэй

| Animal species: Laying hens of <i>Gallus gallus</i> | | Disease(s): SALMONELLOSIS | |
|---|---------------------------|---|--|
| Type of flock ^{a)} | Total number of flocks | Total number of flocks under the programme | Total number of animals under the programme |
| Number of flocks checked ^{b)} | Number of positive flocks | Number of flocks depopulated ^{c)} | Total number of animals slaughtered or destroyed ^{d)} |
| Serotypes targeted in the control programme. | Other serotypes | Serotypes targeted in the control programme | Quantity of eggs destroyed (number or kg) ^{e)} |
| (b) | (c) | (d) | Quantity of eggs eliminated to egg products (number or kg) ^{f)} |

| | | | | | | | | | | | |
|-------------|----|---------|----|---------|----|----|---|---|---|---|---|
| Laying hens | 69 | 1854561 | 69 | 1854561 | 69 | 10 | 4 | 4 | - | - | - |
| Total: | 69 | 1854561 | 69 | 1854561 | 69 | 10 | 4 | 4 | - | - | - |
| | | | | | | | | | | | |

Year: 2007

Animal species: Laying hens of *Gallus gallus*

Disease^(a): SALMONELLOSIS

| Region | Type of flock ^(b) | Total number of flocks | Total number of animals under the programme | Number of flocks checked ^(c) | Number of positive ^(d) blocks | Number of flocks depopulated ^(e) | Total number of animals slaughtered or destroyed ^(f) | Quantity of eggs destroyed (number of kg) ^(g) | | | | Quantity of eggs channelled to egg products (number of kg) ^(h) | | | |
|--------|------------------------------|------------------------|---|---|--|---|---|--|------|------|------|---|------|------|--|
| | | | | | | | | (a1) | (a2) | (a3) | (a4) | (a5) | (a6) | (a7) | |
| Ialvia | Laying hens | 73 | 1899827 | 73 | 1899827 | 73 | 15 | - | - | - | - | - | - | - | |
| Total | | 73 | 1899827 | 73 | 1899827 | 73 | 15 | - | - | - | - | - | - | - | |

Year: 2006

Animal species: Laying hens of *Gallus gallus*

Disease⁽ⁿ⁾: SALMONELLOSIS

| Region | Type of flock | Total number of flocks | Total number of animals under the programme | Number of flocks checked | Number of positive flocks | | Number of flocks depopulated or slaughtered or destroyed | Total number of animals destroyed (number or kg) ^(a) | Quantity of eggs destroyed (number or kg) ^(b) | (Quantity of eggs channeled to SGB products (number or kg)) ^(c) |
|--------|---------------|------------------------|---|--------------------------|---------------------------|------|--|---|--|--|
| | | | | | (a1) | (a2) | | | | |
| Latvia | Laying hens | 64 | 1627856 | 64 | 1627856 | 25 | - | - | - | - |
| Total | | 64 | 1627856 | 64 | 1627856 | 25 | 4 | - | - | - |

Year: 2005

Animal species: Laying hens of *Gallus gallus*

Disease^(b): SALMONELLOSIS

| | | | | | | | | | | | | |
|-------|----|---------|----|---------|----|---|--|--|--|--|--|--|
| Total | 55 | 1243757 | 55 | 1743757 | 23 | 2 | | | | | | |
|-------|----|---------|----|---------|----|---|--|--|--|--|--|--|

Year: 2004

Animal species: Laying hens of *Gallus gallus*

Disease^(a): SALMONELLOSIS

| Region | Type of flock ^(b) | Total number of flocks | Total number of animals | Total number of flocks under the programme | Number of flocks checked ^(c) | Number of positive ^(d) flocks | Number of stocks depopulated ^(e) | | | Total number of animals slaughtered or destroyed ^(f) | Quantity of eggs destroyed (number or kg) ^(g) | Quantity of eggs channelling to egg products (number or kg) ^(h) |
|--------|------------------------------|------------------------|-------------------------|--|---|--|---|------|------|---|--|--|
| | | | | | | | (a1) | (a2) | (a3) | | | |
| Larvia | Laying hens | 55 | 1584927 | 55 | 1584927 | 26 | - | - | - | - | - | - |
| Total | | 55 | 1584927 | 55 | 1584927 | 76 | 2 | - | - | - | - | - |

(a) For zoonotic Salmonella indicate the serotypes covered by the control programmes: (a1) for *Salmonella Enteritidis*, (a2) for *Salmonella Typhimurium*, (a3) for other serotypes - specify as appropriate, (a4) for *Salmonella Enteritidis* or *Salmonella Typhimurium*.

(b) For example, breeding flocks (rearing), adult flocks, production flocks, laying hen flocks, etc. Flocks equals herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock should not be counted twice even if it has been checked more than one

(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample should be taken into account only once.

6.2. Stratified data on surveillance and laboratory tests

6.2.1. Stratified data on surveillance and laboratory tests (one table per year and per disease/species)

Year: 2008

Disease (a): Salmonellosis

Animal species/category (b): laying hens

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the modification of the method of ISO 6579 (2002). The isolates from positives samples are serotyped following the Kaufmann-White scheme and the antimicrobial resistance is determined following the CLSI method.

| Region ^a | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^b | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^e | |
| Larvia | 531 | 531 | 61 | 61 | |
| Total | 531 | 531 | 61 | 61 | |

Year: 2007

Disease (a): Salmonellosis

Animal species/category (b): laying hens

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the modification of the method of ISO 6579 (2002). The isolates from positives samples are serotyped following the Kaufmann-White scheme and the antimicrobial resistance is determined following the CLSI method.

| Region ^a | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^b | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^e | |
| Larvia | 672 | 381 | | | |

| | | | | |
|-------|--|-----|-----|--|
| | | | | |
| Total | | 672 | 101 | |

Year: 2006 **Disease (a): Salmonellosis**

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the method of ISO 6579 (2002). Serotyping is according to the Kaufmann -- White scheme. Isolate per serotype is used for anti - microbial susceptibility testing.

| Region ^b | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^c | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^d | |
| Latvia | 333 | 17 | | | |
| Total | 333 | 17 | | | |

Year: 2005 **Disease (a): Salmonellosis**

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann -- White scheme. Isolate per serotype is used for anti - microbial susceptibility testing.

| Region ^e | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^f | Number of positive samples ^f | Number of samples tested ^g | Number of positive samples ^g | |

| | | | |
|--------|--|-----|----|
| Latvia | | 169 | 10 |
| Total | | 169 | 10 |
| | | | |

Year: 2004

Disease (a): **Salmonellosis**

Animal species/category (b): **poultry**

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann – White scheme. Isolate per serotype is used for anti – microbial susceptibility testing.

| Region ^{a)} | Serological tests | | Macrobiological or virological tests | | Other tests | |
|----------------------|--|--|--|--|--|--|
| | Number of samples tested ^{c)} | Number of positive samples ^{e)} | Number of samples tested ^{d)} | Number of positive samples ^{f)} | Number of samples tested ^{a)} | Number of positive samples ^{e)} |
| Latvia | | 78 | 4 | | | |
| Total | | 78 | 4 | | | |

Year: 2003 Disease (a): **Salmonellosis**

Animal species/category (b): **poultry**

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann – White scheme. Isolate per serotype is used for anti – microbial susceptibility testing.

| Region ^{a)} | Serological tests | | Microbiological or virological tests | | Other tests | |
|----------------------|-------------------|--|--------------------------------------|--|-------------|--|
| | | | | | | |
| | | | | | | |

| | Number of samples tested ^a | Number of positive samples ^c | Number of samples tested ^a | Number of positive samples ^c | Number of samples tested ^a | Number of positive samples ^c |
|--------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| Latvia | 212 | 13 | | | | |
| Total | 212 | 13 | | | | |

Year: 2002 Disease (a): Salmonellosis Animal species/category (b): poultry

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann – White scheme. Isolate per serotype is used for anti – microbial susceptibility testing.

| Region ^b | Serological tests | | Microbiological or virological tests | | Other tests | |
|---------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e |
| Latvia | 688 | 53 | | | | |
| Total | 688 | 53 | | | | |

Year: 2001 Disease (a): Salmonellosis Animal species/category (b): poultry

Description of the used microbiological or virological tests:

The method of ISO 12824:1997

| Region ^b | Serological tests | | Microbiological or virological tests | | Other tests | |
|---------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e |
| | | | | | | |

| | Number of samples tested (d) | Number of positive samples (e) | Number of samples tested (d) | Number of positive samples (e) | Number of samples tested (d) | Number of positive samples (e) |
|--------|------------------------------|--------------------------------|------------------------------|--------------------------------|------------------------------|--------------------------------|
| Latvia | | | | 386 | | 60 |
| Total | | | | 386 | | 60 |

Year: 2000 Disease (a): **Salmonellosis**

Animal species/category (b): **poultry**

Description of the used microbiological or virological tests:

The method of IISO 12824:1997

| Region (c) | Serological tests | | Microbiological or virological tests | | Other tests | |
|------------|------------------------------|--------------------------------|--------------------------------------|--------------------------------|------------------------------|--------------------------------|
| | Number of samples tested (d) | Number of positive samples (e) | Number of samples tested (d) | Number of positive samples (e) | Number of samples tested (d) | Number of positive samples (e) |
| Latvia | | | | 386 | | 26 |
| Total | | | | 386 | | 26 |

(d) Disease and animal species if necessary.

(e) Breeders, laying hens, etc, when appropriate.

(c) Region as defined in the approved eradication programme of the Member state.

(d) Number of samples tested, all confounded.

(e) Number of positive samples, all confounded.

6.3. Data on infection (one table per year and per disease/species)

Year: 2008 Disease⁽ⁱⁱ⁾: Salmonellosis Animal species: laying hens of *Gallus gallus*

| Region ⁽ⁱⁱⁱ⁾ | Number of hens infected < | Number of animals infected | Number of animals uninfected |
|-------------------------|---------------------------|----------------------------|------------------------------|
| Latvia | 10 | 10 | 10 |
| Total | 10 | 10 | 10 |

Year: 2007 Disease⁽ⁱⁱ⁾: Salmonellosis Animal species: laying hens of *Gallus gallus*

| Region ⁽ⁱⁱⁱ⁾ | Number of hens infected < | Number of animals infected | Number of animals uninfected |
|-------------------------|---------------------------|----------------------------|------------------------------|
| Latvia | 15 | 15 | 15 |
| Total | 15 | 15 | 15 |

7. Targets

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

7.1.1.1. Number and specification of tests

| Disease ^(a) : Salmonellosis | Animal species: laying hens of <i>Gallus gallus</i> | Type of test ^(b) | Target population ^(c) | Type of sample ^(d) | Objective ^(e) | Number of planned tests |
|---|---|-------------------------------------|----------------------------------|-------------------------------|--------------------------|-------------------------|
| Latvia | Monitored by ISO 6579 (2002) | Laying hens of <i>Gallus gallus</i> | Product tactal samples | Control | 100 | |
| | | Total | | | | 100 |
| (a) Disease and species if necessary | | | | | | |
| (b) Region as defined in the approved eradication programme of the Member State | | | | | | |
| (c) Description of the test (e.g. SN-test, AB-Elisa, RTI, ...) | | | | | | |
| (d) Specification of the targeted species and the categories of targeted animals (e.g. sex, age, breeding animal, slaughter animal, ...). | | | | | | |
| (e) Description of the sample (e.g. blood, serum, milk, ...) | | | | | | |
| (f) Description of the objective (e.g. qualification, surveillance, confirmation of suspected cases, monitoring of campaigns, seroconversion, control on deleted vaccines, testing of vaccine, control of vaccination, ...) | | | | | | |
| (g) 7.2.1.2. Testing scheme(s) ⁽¹¹⁾ | | | | | | |

¹¹ Describe the testing scheme according the different categories if appropriate (which herds and animals, the number of animals per herd, the frequency and the interval of sampling) with reference to the national and Community legislation where appropriate.

7.1.2 Targets on testing of flocks

Animal species: Laying hens of *Gallus gallus*

Disease/infection^(a): SALMONELLOSTIS

| Region | Type of flock ^(b) | Total number of flocks ^(c) | Total number of animals under the programme | Expected number of flocks to be checked ^(d) | Number of flocks expected to be positive ^(e) | Number of flocks expected to be depopulated ^(f) | Total number of animals expected to be slaughtered destroyed ^(g) | Expected quantity of eggs to be channelled to egg products (number or kg) ^(h) | | |
|-----------|------------------------------|---------------------------------------|---|--|---|--|---|--|---------|------|
| | | | | | | | | | (a1) | (a2) |
| Lithuania | Laying hen flocks | 70 | 1 854 561 | 70 | 7* | - | 7 | 160 000* | - | (a3) |
| Total | Laying hen flocks | 70 | 1 854 561 | 70 | 7 | - | 7 | 160 000* | - | (a4) |
| | | | | | | | | | 700 000 | (a5) |

* For 2010 it is planned that 10% of laying hen flocks will be positive on salmonella.

^(a) For zoonotic Salmonella indicate the serotypes covered by the control programmes: (a1) for *Salmonella Enteritidis*, (a2) for *Salmonella Typhimurium*, (a3) for other serotypes – specify as appropriate. (a4) for *Salmonella Enteritidis* or *Salmonella Typhimurium*.

^(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, etc. Flocks equals herds or as appropriate.

^(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

^(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock should not be counted twice even if it has been checked more than once.

^(e) If a flock has been checked, in accordance with isocontrol (d), more than once, a positive sample should be taken into account only once.

7.2. Targets on vaccination (one table for each year of implementation)

7.2.1. Targets on vaccination¹²

Due to change of state economical situation vaccination programme of laying hens against zoonotic salmonella serotype *S. Enteritidis* shall not be implemented in Latvia.

¹² Data to provide only if appropriate.

8. Detailed analysis of the cost of the programme^b The cost of the programme is calculated for sampling of the adult laying hens of *Gallus Gallus*.

| Costs related to | Specification | Number of units | Unitary cost in € | Total amount in € | Community funding requested (yes/no) |
|---|---|-----------------|-------------------|-------------------|--------------------------------------|
| 1. Testing | | | | | |
| 1.1. Cost of the analysis | <i>The method of modification of ISO 6579 (2002).</i> | | | | |
| | <i>Test: bacteriological detection</i> | 100 | 23,14 | 2314,00 | Yes |
| | Test: serotyping | 20 | 61,41 | 1228,20 | Yes |
| | Test: anti-microbial susceptibility (MIC) | 20 | 26,49 | 529,80 | Yes |
| | Test: phageotyping | 20 | 50,85 | 1017,00 | Yes |
| 1.2. Cost of sampling | | | | | |
| 1.3. Other costs | | | | | |
| 2. Vaccination or treatment | | | | | |
| 2.1. Purchase of vaccine/treatment | | | | | |
| 2.2. Distribution costs | | | | | |

^b Fixed costs should not be included. All amounts are VAT excluded.

| | | | | |
|---|---|-------------------------|------|----------------|
| | | | | |
| 2.3. Administering costs | | | | |
| 2.4. Control costs | | | | |
| 3. Slaughter and destruction | | | | |
| 3.1. Compensation of animals | Laying hens | 100 000 | 4.27 | 427 000 Yes |
| 3.2. Transport costs | | | | |
| 3.3. Destruction costs | | | | |
| 3.4. Loss in case of slaughtering | | | | |
| 3.5. Costs from treatment of products (milk, eggs, hatching eggs, etc) | Eggs | 700 000 | 0.1 | 70 000 Yes |
| 4. Cleaning and disinfection | Costs of disinfectants and disinfection | 67295,15 m ² | 3,71 | 249 665 Yes |

ANNEX II

**Food and Veterinary Service
Latvia**

Member State: Latvia

Disease: SALMONELLOSIS (ZOOONOTIC SALMONELLA - *S. Enteritidis*, *S. Typhimurium*, *S. hadar*, *S. infantis* and *S. virchow*) in breeding hens of *Gallus gallus*

Animal population covered by the program: BREEDING HENS (*Gallus gallus*)

Year of implementation: 2010

Reference of this document: PROGRAM FOR CONTROL OF SALMONELLOSIS (ZOOONOTIC SALMONELLA) IN BREEDING HENS OF *GALLUS GALLUS* CO-FINANCED BY THE COMMUNITY

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Part A

General requirements for the national salmonella control programmes

(a) The aim of the programme

The aim of the **control programme for salmonellosis agents in flocks of breeding hens of *Gallus gallus* (hereinafter – programme)** is applied from the year 2007 is reduction of the prevalence of *Salmonella enteritidis* (SE), *Salmonella typhimurium* (ST), *Salmonella hadar*, *Salmonella infantis* and *Salmonella virchow* in breeding hen flocks and to ensure that adequate and effective measures for monitoring and control of Zoonotic salmonella infections are taken in breeding hen flocks. The reduction of the prevalence of the Zoonotic salmonella in breeding hen flocks is focused on achievement of the targets laying down in Commission Regulation (EC) No. 1003/2005.

In accordance with Commission Regulation (EC) No. 1003/2005, targets of the Programme are reduction of the maximum percentage of adult breeding flocks comprising at least 250 birds remaining positive to 1% or less by 31 December 2009.

(b) Minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council

Minimum sampling requirements are in accordance with sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 2003 of the European Parliament and of the Council and in accordance with Commission Regulation (EC) 1003/2005.

Breeding flocks:

- rearing flocks — day-old chicks
- four-week-old birds

- pullets two weeks before moving to laying phase or laying unit
- adult breeding flocks — every second week during the laying period

(c) **Specific requirements laid down in Part C of Annex II to Regulation (EC) No 2160/2003**

The programme complies with the specific requirements laid down in Part C of Annex II to Regulation (EC) No 2160/2003.

1.1. A short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in the Member State with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council, particularly highlighting the prevalence values of the salmonella serovars targeted in the salmonella control programmes.

The prevalence of *Salmonella* in animals and food of animal origin has been monitored since middle of the past century. Most isolates originated from poultry (57,6%) and from pigs (28,9%). In cattle, *Salmonella* was isolated in lower numbers (8,6%).

In poultry and pigs, the species-specific serotypes S. Pullorum, S. Gallinarum and S. Choleraesuis were isolated most often. Regarding zoonotic *Salmonella* serotypes, S. Enteritidis (9,6% of isolates) and S. Typhimurium (2,8%) were the prevailing serotypes in poultry from 1967 until 2004. In pigs, mainly S. Typhimurium was found (0,8%), while in cattle S. Enteritidis (57,9%) and S. Dublin (35,4%) were the most prominent serotypes. In fur animals, three different zoonotic serotypes were isolated: S. Dublin (23,5%), S. Enteritidis (22,5%) and S. Typhimurium (20,6%).

In 2006, the surveillance of *Salmonella* spp. was based on the Order of Cabinet of Ministers Nr. 298 (21.04.2006.) „Procedures for prevention and combating of such infectious diseases as to which both animals and humans are susceptible”, as well as on Directive 2003/99/EC on the monitoring of zoonoses and zoonotic agents. Besides that, regulations implemented based on Directive No 92/117/EK were still taken into account until the confirmation of control programmes in compliance with Regulation No. (EC) 2160/2003 on the control of salmonella and other specified food-borne zoonotic agents.

In 2007 and 2008, sampling was carried out according to the requirements of the above mentioned Order of Cabinet of Ministers Nr. 298

(21.04.2006.) and Regulation (EC) No. 2160/2003 as well as Regulation (EC) No. 1003/2005/EC implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in breeding flocks of *Gallus gallus* and amending Regulation (EC) No. 2160/2003.

1.2. The structure and organisation of the relevant competent authorities

The structure of the Food and Veterinary service (hereinafter referred to as the FVS) is one of the main components of the mechanism that ensures the operational objectives and functions of the service.

- The FVS central office directs and coordinates the implementation of State functions delegated to the service.
- Territorial units (regional offices and one city office) are FVS administrative units that ensure monitoring within the territory of their region.
- The Sanitary Border Inspection (SBI) controls the import, transit and export of freight on the border in accordance with procedures laid down by the Cabinet of Ministers and requirements currently in force.
- The National Diagnostic Centre (NDC) performs laboratory testing together with territorial units relating to the circulation of food, the diagnosis of infectious human diseases, the diagnosis of infectious animal diseases and ensures testing relating to the environment and environmental sanitary hygiene, as well as the circulation of veterinary medicines, pharmaceutical products, feedingstuffs and feed ingredients; performs the tasks of the national reference laboratory on the basis of authorisation and organises inter-laboratory comparative testing.

Official checks at other stages of the food chain

The control of zoonotic pathogens in food of animal origin, including veterinary expertise at slaughterhouses, is one of the tasks of the FVS Food Surveillance Department.

Based on EU and Latvian legislation, national control programmes are developed.

The Public Health Agency and the State Agency of Tuberculosis and Lung Diseases are responsible for the surveillance of zoonoses in humans in Latvia. Infectious diseases are notifiable according to the Regulation of the Cabinet of Ministers No. 7 of 5 January 1999 "Procedure of Notification of Infectious Diseases".

1.3. Approved laboratories where samples collected within the programme are analysed.

The FVS NDC performs the functions of the national reference laboratory in Latvia, with regard to the diagnosis of infectious animal diseases. All NDC laboratories are accredited in the national accreditation system LATAK in accordance with Latvian standard LVSN ISO/IEC 17025.

Food and Environment Testing Laboratory is accredited also in DAP (Germany) and FOCT P (Russia) accreditation, but Animal Diseases Diagnostic Laboratory - in DAP (Germany) accreditation.

1.4. Methods used in the examination of the samples in the framework of the programme.

Methods used in the examination will be performing in accordance with Annex of Commission Regulation (EC) No 1003/2005.

Sampling is carried out in accordance with minimum requirements of Part B of Annex II to Regulation (EC) of the European Parliament and of the Council No. 2160/2003 and Commission Regulation (EC) No. 1003/2005.

Laboratory examination comprising *detection of Salmonella spp.* shall be carried out in accordance with the method recommended by the Community RL in Bilthoven, Netherlands. The method is a modification of ISO 6579 (2002), where a semi-solid medium (MSRV) is used as the single selective enrichment medium.

The isolates from positive samples are serotyped following the Kauffmann-White scheme and the **antimicrobial resistance** is determined following the CLSI method with the minimum inhibitory concentration (MIC). Isolated strains are stored in accordance with requirements. In case of isolates of *Salmonella* serovar *Dyphimurium* and *Salmonella* serovar *enteritidis* are phage typed.

1.5. Official controls (including sampling schemes) at feed, flock and/or flock level.

The official samples are taken three times from adult poultry flocks by a FVS state veterinary officer:

- a) within four weeks following the start of the laying cycle;
- b) eight weeks after the end of the first laying cycle;
- c) at any time during the laying cycle, but not close to the samples mentioned in a) and b)

or

If sampling at the initiative of the operator takes place at the hatchery, the official samples are taken following:

- a) routine sampling every 16 weeks at the hatchery;
- b) routine sampling at the holding on two occasions during the production cycle, the first one being within four weeks following moving to laying phase or laying unit and the second one being towards the end of the laying phase, not earlier than eight weeks before the end of the production cycle;
- c) confirmatory sampling at the holding, following detection of relevant *Salmonella* from sampling at the hatchery.

Sampling protocol for feeds and table eggs:

Feed samples shall be taken in the frame of the national feed surveillance programme.

1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella* spp. have been detected, in particular to protect public health, and any preventive measures taken, such as vaccination.

Measures taken in the case of salmonella detection (*S. enteritidis* and/or *typhimurium*) in breeding flock according to the Regulation (EC) No 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food - borne zoonotic agents Annex II part C.

- non - incubated eggs must be destroyed. However, such eggs may be used for human consumption if they are treated in a manner that guarantees the elimination of salmonella in accordance with Community legislation on food hygiene;

- adult birds must be slaughtered so as to reduce as much as possible the risk of spreading salmonella. Slaughtering must be carried out in accordance with Community legislation on food hygiene. Products derived from such birds may be placed on the market for human consumption in accordance with Community legislation on food hygiene;
- day - old chicks or pullets must be destroyed so as to reduce as much as possible the risk of spreading salmonella;
- the house and surrounding area, as well as vehicles, equipment and other materials that may be contaminated with disease agents are cleaned, washed and disinfected under the supervision of an authorised veterinarian or state veterinary officer;
- feeding stuffs, bedding and other materials that may be contaminated with disease agents are disinfected under the supervision of an authorised veterinarian or state veterinary officer; manure are disinfected or subjected to biothermic treatment;

Use of antimicrobials shall be governed by Regulation (EC) No 1177/2006

- Antimicrobials (e.g. antibiotics) shall not be used as a special method for the control of *salmonella* infections in poultry.
- **Only authorized antimicrobials are allowed to use in the Republic of Latvia and only authorised veterinarian may use antimicrobials.**
- Antimicrobials may be used only after authorisation by and under supervision of the FVS and they may be applied only in poultry showing clinical signs of the disease suggesting that an excessive suffering of birds could occur. Results of bacteriological examination and antimicrobial susceptibility test must be available prior to the treatment.
- In exceptional cases, antimicrobials may be applied prior to the results of bacteriological examination and anti-microbial susceptibility test are available, provided that samples are taken by the FVS State officer prior to the application. If sampling has not been performed prior to the application of antimicrobials, flocks shall be considered infected by *Salmonella*.

Vaccination

According to the Commission regulation (EC) No 1177/2006 in case of authorisation of live vaccine against zoonotic salmonella, live salmonella vaccines for poultry, for which the manufacturer does not provide an appropriate method to distinguish bacteriologically wild-type strains of salmonella from vaccine strains, should be prohibited to use in the framework of national salmonella control programme.

'The vaccination carries out only in the parent breeding flocks so far. There are only two establishments, which kept the parent breeding flocks (*Gallus Gallus*) – one establishment in egg production sector and one establishment in broiler production sector – in the Latvia.

1.7. National legislation relevant to the implementation of the programmes, including any national provisions concerning the activities set out in the programme.

- a) Regulation (EC) No. 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food-borne zoonotic agents;
- b) Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry;
- c) Commission Regulation (EC) No 1003/2005 of 30 June 2005 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in breeding flocks of *Gallus Gallus* and amending Regulation (EC) No 2160/2003;
- d) Directive 2003/99/EC of the European Parliament and of the Council of 17 November 2003 on the monitoring of zoonoses and zoonotic agents, amending Council Decision 90/424/EEC and repealing Council Directive 92/117/EEC;
- e) The Law on the Supervision of the Handling of Food;
- f) The Veterinary Medicine Law;

- g) Regulation of Cabinet of Ministers No 177, 13 March 2005, "Procedure according to which compensations are given or owners of animals receive compensations for losses which have arise due to eradication of epizootic diseases or animal infectious diseases, which are under state supervision";
- h) Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals";

1.8. Any financial assistance provided to food and feed businesses in the context of the programme,

Regulation of Cabinet of Ministers No 177, 13 March 2005, "Procedure according to which compensations are given or owners of animals receive compensations for losses which have arise due to eradication of epizootic diseases or animal infectious diseases, which are under state supervision" determines procedure according to which compensations are given or owner of animals receive compensations for losses which have arisen due to eradication of animal infectious diseases, which are under state supervision.

Inspector of the Food and veterinary service draws up a protocol regarding slaughtered animals, destroyed products, animal feed and materials.

2. Concerning food and feed businesses covered by the programme

2.3. Relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining at least:

Hygiene management at farms

The following biosecurity measures are recommended:

- a) All in-all out;
- b) Appropriate poultry keeping system to poultry species and category;

- c) Control of staff, visitors and vehicles;
 - d) Vermin, feral animal and insect control;
 - e) Control of seed and water supply; litter supply and disposal as well as;
 - f) Appropriate cleaning and disinfection measures of equipment, buildings, vehicles adequate of poultry keeping technology.
- In egg sorting/packaging plants that are parts of such holdings, HACCP principles shall be applied.

Measures to prevent incoming infections carried by animals, feed, drinking water, people working at farms

The following biosecurity measures are recommended:

- g) Control of staff, visitors and vehicles;
- h) Vermin, feral animal and insect control;
- i) Control of feed and water supply;
- j) Control of domestic animals of site (pets and other animals, including livestock, must be kept away from poultry houses and service buildings).

Hygiene in transporting animals to and from farms

The following biosecurity measures are recommended:

- meet the requirements for animal transport of the species involved as to the construction, arrangement and equipment, do not affect animal health, do not cause any pain or suffering to animals, prevent the animals from escape or falling out and protect them from unfavourable weather effects;
- are protected so that water, feed, litter, faeces or other waste cannot leak or fall out of them;
- are cleaned and disinfected both before and after the transport.

2.4. Routine veterinary supervision of farms

All poultry flocks included in the programme are subjected to visual monitoring by veterinarians. Monitoring of flocks also includes schemes for taking own samples and official samples. Official samples are taken by FVS State officer.

2.5. Registration of farms

Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals"³ determines order of individual identification of cattle, pigs, sheep, goats and horses and registration of holdings of agricultural animals, bee gardens, fishponds, hatcheries of aquatic animals.

To ensure common data registration system, Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC (formerly Latvian state pedigree information data processing centre) is a state agency under the supervision of the Ministry of Agriculture that performs collection, processing and analysis of zootechnical, veterinary and agricultural data in the republic of Latvia to develop a uniform register of animals and herds (cattle, pigs, sheep, goats) and a pedigree information system according to international standards.

2.6. Record-keeping at farms.

According to the Regulation of Cabinet of Ministers № 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" animal owner summarizes information and develops register in written form or electronically on animals of certain (own) holding. Animal owner made changes in the register within three days on animal movement and keep it three years.

According to the Regulation of Cabinet of Ministers № 5, 2 January, 2008 "Welfare requirements for animal kept for farming purposes" animal owner develops "Animal medical treatment log" register, where owner keeps information on diseases cases as well as information regarding animal's cause of death and keep it three years.

According to the Regulation of Cabinet of Ministers № 407, 19 June, 2007 "Regulation of labelling, distribution and control of veterinary medicine" animal owner develops register on used veterinary medicine. As well as animal owner develops register on used feed.

2.7. Documents to accompany animals when dispatched

According to the Regulation of Cabinet of Ministers № 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" in case of animal movement owner or authorised veterinarian completes the declaration of animal movement and sends it to Agricultural Data Centre within seven days.

2.8. Other relevant measures to ensure the traceability of animals.

The identification of a flock must be indicated in application form for laboratory examination.

Standard requirements for the submission of national programmes for the control of Salmonellosis (zoonotic *Salmonella*) as referred to in Article 1(b)

1. Identification of the programme

Member State: LATVIA

Disease(s)¹: SALMONELLOSIS (ZOOONOTIC SALMONELLA - *S. Enteritidis*, *S. Typhimurium*, *S. Hadar*, *S. Infantis*, *S. Virchow*) in breeding flocks of *Gallus gallus*

Year of implementation: 2010

Reference of this document: PROGRAM FOR CONTROL OF SALMONELLOSIS (ZOOONOTIC SALMONELLA IN BREEDING FLOCKS OF *GALLUS GALLUS*) CO-FINANCED BY THE COMMUNITY

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Date sent to the Commission: April 29, 2009

¹: One document per disease is used unless all measures of the programme on the target population are used for the monitoring, the control and eradication of different diseases.

2. Historical data on the epidemiological evolution of the disease(s)²:

The monitoring of salmonellosis of Latvian poultry production started in the 1967.

FVS staff or state authorised veterinarian notifies to FVS regional office:

- on infected poultry or poultry suspected to be infected by zoonotic salmonella;
- if zoonotic salmonella are detected on routinely sampling at holding.

3. Description of the submitted programme³:

The submitted program has been developed with the target for the reduction of salmonella serotypes (*S. Enteritidis*, *S. Typhimurium*, *S. Hadar*, *S. Infantis*, *S. Virchow*) with public health significance in the poultry breeding flocks of *Gallus gallus*.

Within frame of control program for salmonellosis agents is ensure by testing of poultry breeding flocks of *Gallus gallus* in all territory of Republic of Latvia. Testing is carried out according to the sampling requirements of the:

- 1) Regulation (EC) No 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food-borne zoonotic agents;
- 2) Commission Regulation (EC) No 1003/2005/EC of 30 June 2005 implementing regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in breeding flocks of *Gallus gallus* and amending Regulation (EC) No 2160/2003.

Positive case of salmonellosis (*S. Enteritidis*, *S. Typhimurium*, *S. Hadar*, *S. Infantis*, *S. Virchow*) - confirmed positive by National Diagnostic centre. Examining of the samples is carried out using the method which is a modification of ISO 6579:2002, with the new medium – MSRV. The semi-solid medium should be incubated at 41,5 +/- 1°C for 2x (24-48) hours.

² A concise description is given with data on the target population (species, number of herds and animals present and under the programme), the main measures (testing, testing and slaughter, testing and killing, qualification of herds and animals, vaccination) and the main results (incidence, prevalence, qualification of herds and animals). The information is given according distinct periods if the measures were substantially modified. The information is documented by relevant summary epidemiological tables, graphs or maps.

³ A concise description of the programme is given with the main objective(s) (monitoring, control, eradication, qualification of herds and/or regions, reducing prevalence and incidence ...), the main measures (testing, testing and slaughter, testing and killing, qualification of herds and animals, vaccination ...), the target animal population and the area(s) of implementation and the definition of a positive case.

The isolates from positives samples are serotyped following the Kauffmann-White scheme and the antimicrobial resistance is determined following the CLSI method with the minimum inhibitory concentration (MIC). Isolated strains are stored in accordance with requirements. In case of isolates of *Salmonella* serovar *Typhimurium* and *Salmonella* serovar *F瑟尔蒂斯* are phage typed.

Taking of official samples for laboratory testing within surveillance programmes is carried out by state veterinary officer.

Breeding flocks of *Gallus gallus* positive to serotypes of ZOONOTIC SALMONELLA - *S. Enteritidis*, *S. Typhimurium*, *S. Hadar*, *S. Infantis*, *S. Virchow* will be slaughtered or destroyed.

Testing of breeding flocks in 2010 will start in January and will be completed not later than in December 2010.

4.

Measures of the submitted programme

4.1. Summary of measures under the programme

Duration of the programme:

First year: 2010

Last year: 2010

X Control

X Testing

X Slaughter of positive animals

□ Killing of positive animals

□ Vaccination

□ Treatment

□ Disposal of products

□ Monitoring or surveillance

□ Other measures (specify):

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme⁴:

The Food and Veterinary Service (FVS) of the Republic of Latvia is a state administrative institution headed by the CVO and supervised by the Ministry of Agriculture. Regarding veterinary issues FVS ensures unified state surveillance and control over:

- prevention, control and eradication of animal contagious diseases and zoonoses; elaboration and implementation of animal disease surveillance programmes;
- animal welfare;
- animal registration, animal movements, import – export control;
- the animal feed, veterinary drugs and veterinary pharmaceutical products.

⁴ Describe the authorities charged with supervising and coordinating the departments responsible for implementing the programme and the different operators involved.
Describe the responsibilities of all involved.

The FVS consists of the central body placed in Riga and territorial structural units (the local level) – 10 regional offices and one city office. The central body coordinates activities of the local level and ensures a unified implementation of legislation. The local level carries out the official surveillance in accordance with the state surveillance programmes and reports to the central body.

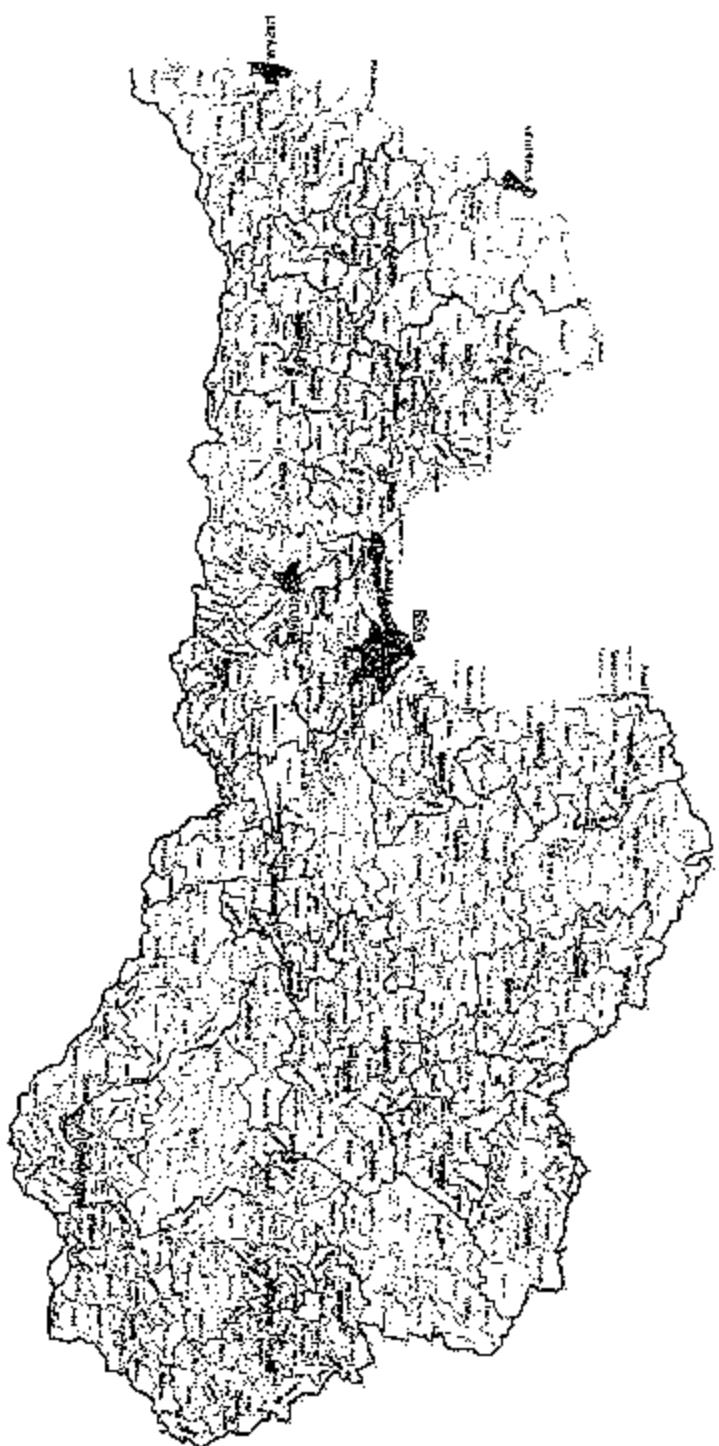
Heads of FVS regional offices make a contract with veterinary practitioners - state authorised veterinarians in the region concerned. FVS state authorised veterinarians to carry out certain functions provided within the state surveillance programmes. **Taking of official samples for laboratory testing within control programme is carried out by state veterinary officer.**

State veterinary officer - veterinary inspector of the Food and Veterinary Service (FVS).

State authorised veterinarian – a veterinarian designated by FVS to carry out specific official tasks on holdings.

Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The program will be implemented and applied in whole territory of Latvia. There are PVS II territorial structural units - regional offices cover all administrative areas. The regional offices carry out the official surveillance in accordance with the state surveillance programmes in the administrative area concerned.



- 5
Describe the name and denomination, the administrative boundaries, and the surface of the administrative and geographical areas in which the programme is to be applied.
Illustrate with maps.

4.4. Measures implemented under the programme⁶

4.4.1. Measures and terms of legislation as regards the registration of holdings:

Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" determines order of individual identification of cattle, pigs, sheep, goats and horses and registration of holdings of agricultural animals, bee gardens, fishponds, hatcheries of aquatic animals.

To ensure common data registration system, Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC (formerly - Latvian state pedigree information data processing centre) is a state agency under the supervision of the Ministry of Agriculture that performs collection, processing and analysis of zootechnical, veterinary and agricultural data in the republic of Latvia to develop a uniform register of animals and herds (cattle, pigs, sheep, goats) and a pedigree information system according to international standards.

4.4.2. Measures and terms of legislation as regards the identification of animals⁷:

According to the Regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" Agricultural Data Centre (ADC) develops register of animals, herds and holdings. ADC gives number for holding and this number is not changed during holding or herd is active. Animal owner informs ADC on animal movement, liquidation of herd or holding, change of owners within seven days.

4.4.3. Measures and terms of legislation as regards the notification of the disease:

Animal owner, the person in charge, state authorised veterinarian notifies to FVS regional office:

- on infected poultry or poultry suspected to be infected by zoonotic salmonella;
- if zoonotic salmonella are detected on routinely sampling at holding.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result⁸:

⁶ Where appropriate Community legislation is mentioned. Otherwise the national legislation is mentioned.

⁷ Not applicable for poultry.

I Action in suspicious cases

In the event of a positive laboratory test performed during own control, the owner or state authorised veterinarian informs the FVS territorial unit (TU) and a State veterinary officer takes official samples from the suspect poultry flock and sends them to the NJDC for testing and specifies the measures to be taken and restrictions on the possibly affected holding and/or hatchery until a diagnosis has been made:

- take samples (bedding, feeding stuffs, water, feathers and/or dust, composite meconia or faecal samples, surface rinses) for laboratory testing to determine the possible paths and sources of infection;
- bacteriological testing of dead poultry;
- destroy dead birds using methods that reduce the risk of agents being spread where possible;
- place disinfectant mats at the entrance and exit of the house and other farm buildings;
- prohibit the taking in and removal of birds from an affected house;
- prohibit the removal of eggs from an affected house;
- control the movement of people who tend poultry;
- measures are taken to control pests and rodents.

II Action in cases of positive laboratory testing

As soon as a diagnosis has been officially approved, a State veterinary officer shall specify the measures that are to be taken on the affected holding and/or hatchery according to the Regulation (EC) No 2160/2003 of the European Parliament and of the Council of 17 November 2003 on the control of salmonella and other specified food-borne zoonotic agents Annex II part C.

1. Measures to be taken in breeding poultry house:

- place disinfectant mats at the entrance and exit of the house and other farm buildings;
- prohibit the taking in and removal of birds from an affected house and/or holding;
- control the movement of people who tend poultry;
- take samples (bedding, feeding stuffs, water, dust, faecal samples, surface rinses) for laboratory testing to determine the possible paths and sources of infection;

⁸ A short description is provided of the measures as regards positive animals (slaughter, destination of carcasses, use or treatment of animal products, the destruction of all products which could transmit the disease or the treatment of such products to avoid any possible contamination, a procedure for the disinfection of infected holdings, the therapeutic or preventive treatment chosen, a procedure for the restocking with healthy animals of holdings which have been depopulated by slaughter and the creation of a surveillance zone around the infected holding...).

- bacteriological testing of dead birds;
- destroy dead birds using methods that reduce the risk of agents being spread where possible;
- non - incubated eggs must be destroyed. However, such eggs may be used for human consumption if they are treated in a manner that guarantees the elimination of salmonella in accordance with Community legislation on food hygiene;
- transfer and slaughter adult breeding poultry separately from other poultry;
- adult birds must be slaughtered so as to reduce as much as possible the risk of spreading salmonella. Slaughtering must be carried out in accordance with Community legislation on food hygiene. Products derived from such birds may be placed on the market for human consumption in accordance with Community legislation on food hygiene.
- day - old chicks or pullets must be destroyed so as to reduce as much as possible the risk of spreading salmonella;
- the house and surrounding area, as well as vehicles, equipment and other materials that may be contaminated with disease agents are cleaned, washed and disinfected under the supervision of an authorised veterinarian or state veterinary officer;
- feeding stuffs, bedding and other materials that may be contaminated with disease agents are disinfected under the supervision of an authorised veterinarian or state veterinary officer; manure are disinfected or subjected to biothermic treatment;
- the destruction or processing of eggs, as well as the slaughter and destruction of birds is documented;
- antimicrobials shall not be used, except circumstances referred in Article 2 of the Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry;
- measures are taken to control pests and rodents.

2. Measures to be taken in the hatchery:

- take samples (dust or feathers, water, meconia, dead embryos, day-old chick corpses, rinses from crates used to transport chicks, surface rinses from eggs, equipment and hatcheries) for laboratory testing, in order to determine the possible paths and sources of infection;
- control the movement of people;
- hatching eggs from infected breeding poultry flocks are destroyed using methods that reduce the risk of agents being spread where possible;
- immediate investigation of the chicks taken out on the presence of the salmonellosis agents;
- the hatchery and surrounding area, as well as vehicles, equipment and other materials that may be contaminated with disease agents are cleaned, washed and disinfected under the supervision of an authorised veterinarian or state veterinary officer;
- measures are taken to control pests and rodents.

III Lifting of restrictions:

Restrictions are lifted by a State veterinary officer after the above measures have been taken and following receipt of a negative laboratory test, by inspecting samples of surface rinses from the holding and/or hatchery following final disinfection.

4.4.6. Control procedures and in particular rules on the movement^a of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned^b:

See above measures have been taken in the holding and/or hatchery.

4.4.7. Measures and terms of legislation as regards the control (testing, vaccination,...) of the disease:

I Samples of breeding poultry flocks are taken:

1.1. for day-old chicks:

- rinses from the internal surfaces of the container in which the chicks have been transported to the holding;
- materials from chicks that have died during transportation;

1.2. four-week old birds: pooled faecal samples:

1.3. birds two weeks before the start of the laying cycle: pooled faecal samples.

II Samples from adult breeding flocks of *Gallus gallus* are taken every two weeks:

2.1. in free-access flocks:

- two pooled faecal samples, from each house where birds are kept;

or

^a A short description of the control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas is provided.

- five pairs of boots/"socks".

2.2. in cage breeding flocks, depending on how faeces are collected:

- two pooled faecal samples from dropping belts;

or

- two pooled faecal samples from scrapers;

or

- two pooled faecal samples from deep pits.

2.3. These samples must also be taken from breeding poultry flocks with less than 250 birds.

III The official samples mentioned in 2. are taken three times from adult poultry flocks by a FVS state veterinary officer:

3.1. within four weeks following the start of the laying cycle;

3.2. eight weeks after the end of the first laying cycle;

3.3. at any time during the laying cycle, but not closer to the samples mentioned in 8.3.1 and 8.3.2.

IV Surveillance system of *Salmonella* spp. in feedingstuffs

The State veterinary inspector selects the type of sample and the undertaking engaged in the circulation of feedingstuffs where the sample is to be taken by assessing the possible risks that may pose a serious threat to animal and human health at the object under supervision within the territorial unit – in accordance with instructions. In the event of positive laboratory test during the official control of feedingstuffs the inspector:

- informs the head of the territorial unit of the results of the analyses;
- informs the FVS Animal Feed Control Division and Zoonotic diseases surveillance unit without delay
 - recommend how feedingstuffs should be used (processed) or destroyed;
 - where appropriate informs, in writing, other territorial units involved in the distribution of non-compliant feedingstuffs.

V Vaccination

Vaccination against zoonotic salmonella is allowed in the Republic of Latvia.

According to the Commission regulation (EC) No 1177/2006 in case of authorisation of live vaccine against zoonotic salmonella, live salmonella vaccines for poultry, for which the manufacturer does not provide an appropriate method to distinguish bacteriologically wild-type strains of salmonella from vaccine strains, should be prohibited to use in the framework of national salmonella control programme.

Vaccination against *S.Pullorum* and *S.Gallinarum* is prohibited.

The vaccination carries out only in the parent breeding flocks so far. There are only two establishments, which kept the parent breeding flocks (*Gallus Gallus*) – one establishment in egg production sector and one establishment in broiler production sector – in the Latvia.

VI Use of antimicrobials

Use of antimicrobials for national control programme of salmonellosis is carried out on the basis of Commission regulation (EC) No 1177/2006 and in exceptional cases specified by this Regulation use of antimicrobials will be based wherever possible on the result of bacteriological sampling and of susceptibility testing.

Only authorized antimicrobials are allowed to use in the Republic of Latvia and only authorised veterinarian may use antimicrobials.

4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:

Regulation of Cabinet of Ministers No 177 (15 March 2005) "Procedure according to which compensations are given or owner of animals receive compensations for losses which have arose due to eradication of epizootics or animal infectious diseases," determines procedure according to which compensations are given or owner of animals receive compensations for losses which have arisen due to eradication or outbreaks of animal infectious diseases, which are under state supervision.

IVS state veterinary officer draws up a protocol regarding slaughtered animals, destroyed products, animal feed and materials.

4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved.

The following biosecurity measures are recommended:

- k) All in-all out;
- l) Appropriate poultry keeping system to poultry species and category;
- m) Control of staff, visitors and vehicles;
- n) Vermin, feral animal and insect control;
- o) Control of feed and water supply; litter supply and disposal as well as;
- p) Appropriate cleaning and disinfection measures of equipment, buildings, vehicles adequate of poultry keeping technology;
- q) Control of domestic animals of site (pets and other animals, including livestock, must be kept away from poultry houses and service buildings);
- r) Control of hygiene in animal transporting.

In egg sorting/packaging plants that are parts of such holdings, HACCP principles shall be applied.

5. General description of the costs and benefits¹⁰.

The total costs of the program – 284828,30 Euro.

The submitted programme has been developed with the target to established for the reduction of the prevalence of serotypes of zoonoses with public health significant according to the Commission Regulation (EC) No 1003/2005 of 30 June 2005 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella serotypes in breeding flocks of *Gallus gallus* and amending Regulation (EC) No 2160/2003.

¹⁰ A description is provided of all costs for the authorities and society and the benefits for farmers and society in general.

Benefits:

1. To limit distribution of products contaminated with salmonellosis agents in the market and reduce the infection risk of consumers;
2. Control and eradication of microorganisms of salmonella genus in the whole food chain (especially - in the primary production);
3. Keep in under control public and animal (poultry) health in the National and European Community level.

6. Data on the epidemiological evolution during the last five years

6.1. Evolution of the disease

6.1.2. Data on evolution of the disease (one table per year and per disease/species)

Year: 2008

| Animal species: Breeding birds of <i>Gallus gallus</i> | | Disease(s): SALMONELLOSIS | | | | | | | | | |
|--|-------------------------------------|---|--|---|---|--|--|--|-----------------|--|-----------------|
| Type of flock ^a | Total number of flocks ^a | Total number of flocks checked ^a | Number of positive flocks ^a | Number of flocks depopulated ^b | Total number of animals slaughtered or destroyed ^c | Quantity of eggs destroyed (number or kg) ^d | Quantity of eggs channeled to egg products (number or kg) ^e | Serotypes targeted in the control programme ^f | | Serotypes targeted in the control programme ^f | |
| | | | | | | | | Other serotypes | Other serotypes | Other serotypes | Other serotypes |
| Housing | 26 | 179 712 | 26 | 179 712 | 26 | - | - | - | - | - | - |
| Total | 26 | 179 712 | 26 | 179 712 | 26 | - | - | - | - | - | - |

Year: 2007

Animal species: Breeding birds of *Gallus gallus*

| Region | Type of flock ^{a)} | Total number of flocks ^{b)} | Total number of animals | Total number of flocks under the programme | Total number of animals under the programme | Number of positive ^{c)} flocks checked ^{d)} | Number of flocks depopulated ^{e)} | Disease ⁽ⁿ⁾ ; SALMONELLOSIS | | | |
|--------|-----------------------------|--------------------------------------|-------------------------|--|---|---|--|--|------|------|------|
| | | | | | | | | (a1) | (a2) | (a3) | (a4) |
| Latvia | Breeding flocks | 21 | 177 545 | 21 | 177 545 | 21 | - | - | - | - | - |
| Total | | 21 | 177 545 | 21 | 177 545 | 21 | - | - | - | - | - |

Year: 2006

Animal species: Breeding birds of *Gallus gallus*

| Region | Type of flock ^{a)} | Total number of flocks ^{b)} | Total number of animals | Total number of flocks under the programme | Total number of animals under the programme | Number of positive ^{c)} flocks checked ^{d)} | Number of flocks depopulated ^{e)} | Disease ⁽ⁿ⁾ ; SALMONELLOSIS | | | |
|--------|-----------------------------|--------------------------------------|-------------------------|--|---|---|--|--|------|------|------|
| | | | | | | | | (a1) | (a2) | (a3) | (a4) |
| Latvia | Breeding flocks | 25 | 175 000 | 25 | 175 000 | 25 | - | - | - | - | - |
| Total | | 25 | 175 000 | 25 | 175 000 | 25 | - | - | - | - | - |

Year: 2005

Animal species: Breeding birds of *Gallus gallus*

Disease(s): SALMONELLOSIS

| Region | Type of flocks | Total number of flocks | Total number of animals | Total number of flocks under the programme | Total number of animals under the programme | Number of flocks checked ^{a)} | Number of positive ^{b)} flocks | | Number of flocks depopulated ^{c)} or slaughtered or destroyed ^{d)} | Total number of animals destroyed (number or kg) ^{e)} | Quantity of eggs channelled to egg products (number or kg) ^{f)} |
|--------|-----------------|------------------------|-------------------------|--|---|--|---|------|--|--|--|
| | | | | | | | (a1) | (a2) | (a3) | (a4) | (a5) |
| Latvia | Breeding flocks | 23 | 127142 | 23 | 127142 | 23 | - | - | - | - | - |
| Total | | 23 | 127142 | 23 | 127142 | 23 | - | - | - | - | - |

Year: 2004

Animal species: Breeding birds of *Gallus gallus*

Disease(s): SALMONELLOSIS

| Region | Type of flocks | Total number of flocks | Total number of animals | Total number of flocks under the programme | Total number of animals under the programme | Number of flocks checked ^{a)} | Number of positive ^{b)} flocks | | Number of flocks depopulated ^{c)} or slaughtered or destroyed ^{d)} | Total number of animals destroyed (number or kg) ^{e)} | Quantity of eggs channelled to egg products (number or kg) ^{f)} |
|--------|-----------------|------------------------|-------------------------|--|---|--|---|------|--|--|--|
| | | | | | | | (a1) | (a2) | (a3) | (a4) | (a5) |
| Latvia | Breeding flocks | 25 | 133742 | 25 | 133742 | 25 | 1 | - | 1 | 6500 | - |
| Total | | 25 | 133742 | 25 | 133742 | 25 | 1 | - | 1 | 6500 | - |

Year: 2003

Animal species: Breeding birds of *Gallus gallus*

Disease(a): SALMONELLOSIS

| Region | Type of flock ^(b) | Total number of flocks | Total number of animals | Number of flocks under the programme | Total number of animals under the programme | Number of flocks checked ^(c) | Number of positive ^(d) flocks | | Number of flocks depopulated ^(e) | Total number of animals slaughtered or destroyed ^(f) | Quantity of eggs destroyed (number or kg) ^(g) | Quantity of eggs channelled to egg products (number or kg) ^(h) |
|--------|------------------------------|------------------------|-------------------------|--------------------------------------|---|---|--|------|---|---|--|---|
| | | | | | | | (a1) | (a2) | (a3) | (a4) | (a5) | (a6) |
| Latvia | Breeding flocks | 26 | 170500 | 26 | 170500 | 26 | - | - | - | - | - | - |
| Total | | 26 | 170500 | 26 | 170500 | 26 | - | - | - | - | - | - |

^(a) For zoonotic *Salmonella* indicate the serotypes covered by the control programmes: (a1) for *Salmonella Enteritidis*, (a2) for *Salmonella Typhimurium*, (a3) for other serotypes - specify as appropriate, (a4) for *Salmonella Enteritidis* or *Salmonella Typhimurium*.

^(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, etc. Flocks equals herds or flocks as appropriate.

^(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

^(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock should not be counted twice even if it has been checked more than once.

^(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample should be taken into account only once.

6.2. Stratified data on surveillance and laboratory tests

6.2.1. Stratified data on surveillance and laboratory tests (one table per year and per disease/species)

Year: 2008 Disease(a): Salmonellosis

Animal species/category (b): breeding flocks of *Gallus gallus*

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the modification of the method of ISO 6579 (2002). The isolates from positives samples are serotyped following the Kauffmann-White scheme and the antimicrobial resistance is determined following the CLSI method.

| Region ⁽ⁱ⁾ | Serological tests | Microbiological or virological tests | Other tests |
|-----------------------|-------------------|--------------------------------------|-------------|
|-----------------------|-------------------|--------------------------------------|-------------|

| | Number of samples tested ^a | Number of positive samples ^b | | Number of samples tested ^a | Number of positive samples ^b |
|-----------|---------------------------------------|---|--|---------------------------------------|---|
| 1st visit | 1413 | 1413 | | 0 | 0 |
| Total | 1413 | 1413 | | 0 | 0 |

Year: 2007

Disease (a): Salmonellosis

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the modification of the method of ISO 6579 (2002). The isolates from positives samples are serotyped following the Kauffmann-White scheme and the antimicrobial resistance is determined following the CLSI method.

| Region | Seroepidemiological tests | | Microbiological or virological tests | | Other tests | |
|--------|--|--|--|--|--|--|
| | Number of samples tested ^{a)} | Number of positive samples ^{b)} | Number of samples tested ^{a)} | Number of positive samples ^{c)} | Number of samples tested ^{d)} | Number of positive samples ^{e)} |
| Latvia | — | — | 988 | 2 | — | — |
| Total | — | 988 | — | 2 | — | — |

Year: 2006

Disease (a): Salmonellosis

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by the method of ISO 6579 (2002). Serotyping is according to the Kaufmann White scheme. Isolate per serotype is used for antimicrobial susceptibility testing.

| Region ^a | Seroepidemiological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^b | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^e | |
| | | | | | |

| | | | |
|--------|--|-----|--|
| Latvia | | 249 | |
| | | | |
| Total | | 249 | |

Year: 2005 Disease (a): Salmonellosis

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann – White scheme. Isolate per serotype is used for anti – microbial susceptibility testing.

| Region ^a | Serological tests | | Microbiological or virological tests | | Other tests | |
|---------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| | Number of samples tested ^b | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^f | Number of positive samples ^g |
| Latvia | 169 | 10 | | | | |
| Total | 169 | 10 | | | | |

Year: 2004 Disease (a): Salmonellosis

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kaufmann – White scheme. Isolate per serotype is used for anti – microbial susceptibility testing.

| Region ^a | Serological tests | | Microbiological or virological tests | | Other tests | |
|---------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| | Number of samples tested ^b | Number of positive samples ^c | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^f | Number of positive samples ^g |
| | | | | | | |

| | | | | | |
|--------|--|--|----|--|---|
| Latvia | | | 78 | | 4 |
| Total | | | 78 | | 4 |
| | | | | | |

Year: 2003

Disease (a): Salmonellosis

Animal species/category (b): poultry

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kauflmann - White scheme. Isolate per serotype is used for anti - microbial susceptibility testing.

| Region ^c | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | |
| Latvia | | | 212 | 13 | |
| Total | | 212 | 13 | | |

Year: 2002

Disease (a): Salmonellosis

Animal species/category (b): poultry

Description of the used microbiological or virological tests:

The bacteriological detection of *Salmonella* spp. carried out by ISO standard 17025, the method of ISO 6579 (2002). Serotyping is according to the Kauflmann - White scheme. Isolate per serotype is used for anti - microbial susceptibility testing.

| Region ^c | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | |
| Latvia | | 684 | 53 | | |

| | | | |
|-------|--|-----|----|
| | | | |
| Total | | 638 | 53 |

Year: 2001 **Disease (a): Salmonellosis**

Description of the used microbiological or virological tests:

The method of ISO 12824:1997

| Region ^c | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | |
| Lithuania | 386 | 60 | | | |
| Total | 386 | 60 | | | |

Year: 2000 **Disease (a): Salmonellosis**

Description of the used microbiological or virological tests:

The method of ISO 12824:1997

| Region ^c | Serological tests | | Microbiological or virological tests | | Other tests |
|---------------------|---------------------------------------|---|---------------------------------------|---|-------------|
| | Number of samples tested ^d | Number of positive samples ^e | Number of samples tested ^d | Number of positive samples ^e | |
| Lithuania | 386 | 26 | | | |

| | |
|-------|-----|
| Total | 386 |
|-------|-----|

| |
|----|
| 26 |
|----|

- (a) Disease and animal species if necessary.
- (b) Breeders, laying hens, etc., when appropriate.
- (c) Region as defined in the approved eradication programme of the Member state.
- (d) Number of samples tested, all confirmed.
- (e) Number of positive samples, all confirmed.

6.3. Data on infection (one table per year and per disease/species)

| <u>Year:</u> 2008 | <u>Disease^(a):</u> Salmonellosis | <u>Animal species:</u> breeding birds of <i>Gallus gallus</i> |
|-----------------------|---|---|
| Region ^(b) | | Number of birds infected ^(c) |
| Latvia | | |
| Total | | |

| <u>Year:</u> 2007 | <u>Disease^(a):</u> Salmonellosis | <u>Animal species:</u> breeding birds of <i>Gallus gallus</i> |
|-----------------------|---|---|
| Region ^(b) | | Number of birds infected ^(c) |
| Latvia | | |
| Total | | |

| | |
|------|-------|
| Year | |
| | |

| <u>Year:</u> 2006 | | <u>Disease^(a):</u> Salmonellosis | | <u>Animal species:</u> breeding birds of <i>Gallus gallus</i> | |
|-------------------------|-------|---|-------|---|-------|
| Region ^(b) : | | Number of herds infected ^(c) | | Number of animals infected | |
| Latvia | | | | | |
| Total | | | | | |

| <u>Year:</u> 2005 | | <u>Disease^(a):</u> Salmonellosis | | <u>Animal species:</u> breeding birds of <i>Gallus gallus</i> | |
|-------------------------|-------|---|-------|---|-------|
| Region ^(b) : | | Number of herds infected ^(c) | | Number of animals infected | |
| Latvia | | | | | |
| Total | | | | | |

| <u>Year:</u> 2004 | | <u>Disease^(a):</u> Salmonellosis | | <u>Animal species:</u> breeding birds of <i>Gallus gallus</i> | |
|-------------------------|-------|---|-------|---|-------|
| Region ^(b) : | | Number of herds infected ^(c) | | Number of animals infected | |
| Latvia | | 1 | | 6500 | |

| | | |
|-----------------------|--|--|
| Total | | 6500 |
| Year: 2003 | Disease ^(a) : Salmonellosis | Animal species: breeding birds of <i>Gallus gallus</i> |
| Region ^(b) | Number of flocks infected ^(c) | Number of animals infected |
| Latvia | | |
| Total | | |

(a) Disease and animal species if necessary.

(b) Region as defined in the eradication programme of the Member State.

(c) Herds equal flocks, or holdings appropriate.

Targets

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

7.1.1.1. Number and specification of tests

Animal species: breeding birds of *Cathartes aura*

| Region ^(a) | Type of the test ^(b) | Target population ^(c) | Type of samples ^(d) | Objective ^(e) | Number of planned tests |
|-----------------------|---------------------------------|---|--------------------------------|--------------------------|-------------------------|
| Latvia | Modification of ISU 6579 (2002) | Breeding flocks of <i>Gallus gallus</i> | Pooled faecal samples | Control | 700 |

- (a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) Description of the test (e.g. S:N-test, AB-Elisa, RBT, ...)

(d) Specification of the targeted species and the categories of targeted animals (e.g. sex, age, breeding animal, slaughter animal, ...)

(e) Description of the sample (e.g. blood, serum, milk, ...)

(f) Description of the objective (e.g. qualification, surveillance, confirmation of suspected cases, monitoring of campaigns, seroconversion, control on deleted vaccines, testing of vaccine, control of vaccination, ...)

(g) 7.2.1.2. Testing scheme(s)¹¹

Describe the testing scheme according the different categories if appropriate (which herds and animals, the number of animals per herd, the frequency and the interval of sampling) with reference to the national and Community legislation where appropriate.

7.1.2.

Targets on testing of flocks

Animal species: Breeding birds of *Gallus gallus*

| Disease/infection ^(a) , SALMONELLOSIS | | | | | | | | | |
|--|------------------------------|---------------------------------------|--|---|--|---|---|---|--|
| Region | Type of flock ^(b) | Total number of flocks ^(c) | Total number of flocks under the programme | Total number of animals under the programme | Expected number of flocks to be checked ^(d) | Number of flocks expected to be negative ^(f) | Number of flocks expected to be depopulated or destroyed ^(g) | Total number of animals expected to be slaughtered ^(h) | Expected quantity of eggs to be destroyed ⁽ⁱ⁾ (number in kg) ^(j) |
| | | | (a1) | (a2) | (a3) | (a4) | (a5) | (a6) | (a7) |
| Latvia | Breeding flocks | 26 | 152791 | 26 | 2* | - | 2* | 20000 | 140000 |
| Tunisia | Breeding flocks | 26 | 152791 | 26 | 2* | - | 2* | 20000 | 140000 |

^(a) For *Antimicrobial Salmonella* indicate the serotypes covered by the control programmes: (a1) for *Salmonella Enteritidis*, (a2) for *Salmonella Typhimurium*, (a3) for other serotypes *Salmonella* and *Salmonella Infantis* or *Salmonella Typhimurium*.

^(b) For example, breeding flocks (young, adult hens), production flocks, laying hen flocks, etc. flocks equals herds or as appropriate.

^(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

^(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock should not be counted twice even if it has been checked more than once.

^(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample should be taken into account only once.

- * There are only two establishments, which kept the patent breeding flocks (*Gallus Gallus*) – one establishment in egg production sector and one establishment in broiler production sector.

While an establishment have self-control system regarding salmonella and we have an official control, due to seasonal salmonella variability and risk of salmonella introduction on farm (especially with feed) we estimate 1 positive flock in the egg production sector and 1 positive flock in broiler production sector. In total ... 2 positive flocks. Mean number of the birds kept in the one breeding flock are 10000, multiply by 2 as a result 20000 birds.

specify as appropriate, (a4) for

8. Detailed analysis of the cost of the programme¹² (one table per year of implementation)

| Costs related to | Specification | Number of units | Unitary cost in € | Total amount in € | Community funding requested (yes/no) |
|------------------------------------|---|-----------------|-------------------|-------------------|--------------------------------------|
| 1. Testing | The method of modification of ISO 8579 (2002). | | | | |
| 1.1. Cost of the analysis | Test: bacteriological detection | 200 | 23,14 | 4628,00 | Yes |
| | Test: serotyping | 20 | 61,41 | 1228,20 | Yes |
| | Test: anti-microbial susceptibility (MIC) | 20 | 26,49 | 569,80 | Yes |
| | Test: phagetyping | 20 | 50,85 | 1017,00 | Yes |
| 1.2. Cost of sampling | | | | | |
| 1.3. Other costs | | | | | |
| 2. Vaccination or treatment | | | | | |
| 2.1. Purchase of vaccine/treatment | | | | | |
| 2.2. Distribution costs | | | | | |

¹² Fixed costs should not be included. All amounts are VAT excluded.

| | | | | | |
|--|---|---------------------|------|---------|-----|
| | | | | | |
| 2.3. Administering costs | | | | | |
| 2.4. Control costs | | | | | |
| 3. Slaughter and destruction | | | | | |
| 3.1. Compensation of animals | Adult breeding birds | | | | |
| | | 20000 | 8.83 | 176600 | Yes |
| 3.2. Transport costs | | | | | |
| 3.3. Destruction costs | | | | | |
| 3.4. Loss in case of slaughtering | | | | | |
| 3.5 Costs from treatment of products (milk, eggs, hatching eggs, etc) | Hatching eggs | 140000 | 0,47 | 65800 | Yes |
| 4. Cleaning and disinfection | Costs of disinfectants and disinfection | 9430 m ² | 3,71 | 34905,3 | Yes |

