

Eradication: Final report for Salmonella 2018

For each approved annual or multi-annual programme Member States shall submit to the Commission by the 30 April each year an annual detailed technical and financial report covering the previous year. That report shall include the results achieved and a detailed account of eligible costs incurred (Art 14 of Regulation (EU) No 652/2014).

This form is for information only, no submission possible.

ID: 20190402-4PS3V3T7

Country code: DK

Reporting period

From: 2018

To: 2018

Year of implementation: 2018

1. Technical implementation of the programme

1.1 Description and evaluation of the evolution of the epidemiological situation, the technical implementation of the activities foreseen under the programme and the cost-effectiveness of the programme.

The target for breeders: maximum percentage of salmonella in adult breeding flocks is 1%. In Denmark, the target serotype prevalence was 0.6%. The over all salmonella prevalence(all serotypes) was 0.6%
The target for layers: maximum percentage of salmonella in layers is 2%. In Denmark, the target serotype prevalence was 2.2%. The over all salmonella prevalence (all serotypes) was 2.6%
The target for broilers: maximum percentage of salmonella in broilers is 1%. In Denmark, the target serotype prevalence was 0.7%. The over all salmonella prevalence (all serotypes) was 0.8%

The programme is fully implemented in Denmark, which is considered to be one region.

As the programme has been implemented in Denmark for many years, the technical implementation in 2018 gave no difficulties.

A cost-effectiveness evaluation has not been made, as a continuous effort to reduce salmonella is a political decision.

1.2 Details on the level of achievement of the targets set in the approved programme and technical difficulties.

The Danish Veterinary and Food Administration (DVFA) has registered Salmonella in 12 out of 454 flocks of laying hens in 2018, corresponding to 2.6 %. The 12 flocks were situated at six different farms, including two farms with three flocks each. At both farms, all three flocks were found infected at the same time. In order to do everything possible to rectify the situation and find the source(s) of the contamination the DVFA has carried out a thorough investigation of the increase in Salmonella in flocks of laying hens in 2018. The investigation has been carried out in cooperation with The Technical University of Denmark (DTU) - The National Food Institute - and the poultry industry.

The DVFA has carried out an official investigation of the source of the infections in all the flocks. The producers filled in the official questionnaire that includes a number of questions pertinent to the investigation into the potential source of infection. In addition, the DVFA has in all cases of salmonella findings visited the farms in order to take environmental samples and at the same time interviewed the owner about possible sources for the contamination. In addition, the industry has visited all the farms in order to further clarify possible sources. The industry has furthermore emphasized the importance of good production practices and biosecurity, including sending a letter regarding pest control to all producers in Denmark.

DTU has performed whole genome sequencing (WGS) on all relevant salmonella isolates and compared with findings from other sources in order to establish if there is any connection to known sources. An investigation of serotypes found in pests (rats, mice and birds) is being made for further comparison. It is expected to be completed mid-2019.

So far, no common source has been revealed. For some producers insufficient biosecurity is the most probably cause. In addition, it cannot be ruled out, that the warm summer might have stressed the animals and reduced their immune system.

1.3 Epidemiological maps for infection and other relevant data on the disease/activities (information on serotypes involved,...) (Please attach files of data using the PDF attachment feature) Use the textbox below to provide clarifications for the maps you attach, if needed.

The programme is fully implemented in Denmark, which is considered to be one region.

2. Tables for Salmonella monitoring outcome of the year

VERY IMPORTANT: Please fill out the following tables with figures corresponding to measures performed during the implementing period (1/1 to 31/12).

	Number of adults flocks checked	Number of these flocks infected by a target serovar	Incidence
Breeding flocks of Gallus gallus	167	1	0.6 %
Laying hen flocks	454	10	2.2 %
Broiler flocks	4,245	30	0.71 %
Breeding flocks of turkeys	0	0	%
Fattening flocks of turkeys	22	0	0 %

Table A - BREEDING FLOCKS OF GALLUS GALLUS

No of flocks with more than 250 adult breeders of Gallus gallus	167
No of flocks covered by the programme - Rearing flocks	204
No of flocks covered by the programme - Adults	167
No of flocks checked by the Competent Authorities - Rearing flocks	204
No of flocks checked by the Competent Authorities - Adults	167
No of flocks checked by the FBO - Rearing flocks	204
No of flocks checked by the FBO - Adults	167
No of official visits to take samples - Routine (holding)	320
No of official visits to take samples - Routine (hatchery)	500
No of official visits to take samples - Confirmatory sampling	0
No of official visits to take samples - Efficacy of disinfection	1
Positive flocks (SE,ST,SH,SI,SV) - No of positive flocks - Rearing flocks	1
Positive flocks (SE,ST,SH,SI,SV) - No of positive flocks - Adults	1
Positive flocks (SE,ST,SH,SI,SV) - No of positive flocks depopulated - Rearing flocks	1
Positive flocks (SE,ST,SH,SI,SV) - No of positive flocks depopulated - Adults	1

Positive flocks (SE,ST,SH,SI,SV) - No of birds concerned - Rearing flocks	30,832
Positive flocks (SE,ST,SH,SI,SV) - No of birds concerned - Adults	20,947
Positive flocks (SE,ST,SH,SI,SV) - No of eggs - Heat treated	78,120
Positive flocks (SE,ST,SH,SI,SV) - No of eggs - Destroyed	254,880

Table B - FLOCKS OF LAYING HENS

No of holdings with more than 1,000 adult laying hens	168
No of flocks in these holdings - Rearing flocks	35
No of flocks in these holdings - Adults	270
No of holdings covered by the programme	226
No of holdings covered by the programme - Rearing flocks	63
No of holdings covered by the programme - Adults	294
Official checks - No of holdings with adult flocks checked	226
Official checks - No of adult flocks checked in these holdings	450
Official checks - No of pullet flocks checked in these holdings	120
FBO checks - No of holdings checked	226
FBO checks - No of adult flocks checked in these holdings	454
FBO checks - No of pullet flocks checked in these holdings	124
No of official visits to take samples - Routine	571
No of official visits to take samples - Confirmatory sampling	2
No of official visits to take samples - Specific samples	6
No of official visits to take samples - Competent authority samples	0
No of official visits to take samples - Efficacy of disinfection	13
Positive flocks (SE,ST) - No of positive flocks - Rearing flocks	1
Positive flocks (SE,ST) - No of positive flocks - Adults	10
Positive flocks (SE,ST) - No of positive flocks depopulated - Rearing flocks	0
Positive flocks (SE,ST) - No of positive flocks depopulated - Adults	0
Positive flocks (SE,ST) - No of birds concerned - Rearing flocks	0
Positive flocks (SE,ST) - No of birds concerned - Adults	0
Positive flocks (SE,ST) - No of eggs - Destroyed	0

Table C - BROILER FLOCKS

No of holdings with more than 5,000 broilers	207
No of flocks produced in these holdings	3,900
No of holdings covered by the programme	259
No of flocks produced in these holdings	4,245
No of flocks checked (official checks)	259
No of flocks checked (FBO checks)	4,245
No of official visits to take samples - Routine	259
No of official visits to take samples - Efficacy of disinfection	35
No of positive flocks (SE,ST)	30

Table D - BREEDING FLOCKS OF TURKEY

No of flocks with more than 250 adult breeding turkeys	0
No of flocks with elite, great grand parent, grand parents	0
No of flocks covered by the programme - Rearing flocks	0
No of flocks covered by the programme - Adults	0
No of flocks checked by the Competent Authorities - Rearing flocks	0
No of flocks checked by the Competent Authorities - Adults	0
No of flocks checked by the FBO - Rearing flocks	0
No of flocks checked by the FBO - Adults	0

No of official visits to take samples - Routine (holding)	0
No of official visits to take samples - Routine (hatchery)	0
No of official visits to take samples - Confirmatory sampling	0
No of official visits to take samples - Efficacy of disinfection	0
Positive flocks (SE,ST) - No of positive flocks - Rearing flocks	0
Positive flocks (SE,ST) - No of positive flocks - Adults	0
Positive flocks (SE,ST) - No of positive flocks depopulated - Rearing flocks	0
Positive flocks (SE,ST) - No of positive flocks depopulated - Adults	0
Positive flocks (SE,ST) - No of birds concerned - Rearing flocks	0
Positive flocks (SE,ST) - No of birds concerned - Adults	0
Positive flocks (SE,ST) - No of eggs - Heat treated	0
Positive flocks (SE,ST) - No of eggs - Destroyed	0

Table E - FLOCKS OF FATTENING TURKEYS

No of holdings with more than 500 fattening turkeys	20
No of flocks produced in these holdings	62
No of holdings covered by the programme	22
No of flocks produced in these holdings	65
No of flocks checked (official checks)	22
No of flocks checked (FBO checks)	65
No of official visits to take samples - Routine	22
No of official visits to take samples - Efficacy of disinfection	0
No of positive flocks (SE,ST)	0

Table F - LABORATORY TESTS

Laboratory tests on official samples	Nb of tests					
	Breeding flocks	Laying flocks	Broiler flocks	Breeding turkey flocks	Fattening turkey flocks	TOTAL
Microbiological tests	1,895	1,150	259	0	20	3,324
Serotyping tests	1	13	35	0	0	49
Disinfection efficacy tests	1	12	35	0	0	48
Antimicrobial detection tests	1	14	35	0	0	50

Table G - VACCINATION

	No of flocks in the vaccination programme	No of flocks vaccinated	No of birds vaccinated	No of doses administered
Breeders	0	0	0	0
Layers	0	0	0	0
Breeding turkeys	0	0	0	0
	0	0	0	0

COMMENT / ADDITIONAL CLARIFICATION