

Hungary

TRENDS AND SOURCES OF ZOONOSSES AND ZOOTIC AGENTS IN FOODSTUFFS, ANIMALS AND FEEDINGSTUFFS

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

IN 2018

PREFACE

This report is submitted to the European Commission in accordance with Article 9 of Council Directive 2003/99/EC*. The information has also been forwarded to the European Food Safety Authority (EFSA).

The report contains information on trends and sources of zoonoses and zoonotic agents in Hungary during the year 2018.

The information covers the occurrence of these diseases and agents in animals, foodstuffs and in some cases also in feedingstuffs. In addition the report includes data on antimicrobial resistance in some zoonotic agents and indicator bacteria as well as information on epidemiological investigations of foodborne outbreaks.

Complementary data on susceptible animal populations in the country is also given. The information given covers both zoonoses that are important for the public health in the whole European Union as well as zoonoses, which are relevant on the basis of the national epidemiological situation.

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

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

The information covered by this report is used in the annual European Union Summary Reports on zoonoses and antimicrobial resistance that are published each year by EFSA.

The national report contains two parts: tables summarising data reported in the Data Collection Framework and the related text forms. The text forms were sent by email as pdf files and they are incorporated at the end of the report.

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

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ANIMAL POPULATION TABLES

Table Susceptible animal population

Animal species	Category of animals	Population
		animal
Cattle (bovine animals)	Cattle (bovine animals)	987,154
Goats	Goats	65,000
Pigs	Pigs	2,721,000
Rabbits	Rabbits - farmed	1,209,000
Sheep	Sheep	1,100,000
Solipeds, domestic	Solipeds, domestic	52,000

DISEASE STATUS TABLES

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

Region	Number of animals serologically tested under investigations of suspect cases	Number of suspended herds under investigations of suspect cases	Number of seropositive animals under investigations of suspect cases	Number of animals positive to BST under investigations of suspect cases	Number of animals positive in microbiological testing under investigations of suspect cases	Number of herds with status officially free	Number of infected herds	Total number of animals	Number of herds tested under surveillance	Number of animals tested under surveillance	Total number of herds	Number of infected herds tested under surveillance	Number of herds tested under surveillance by bulk milk	Number of animals or pools tested under surveillance by bulk milk	Number of infected herds tested under surveillance by bulk milk	Number of notified abortions whatever cause under investigations of suspect cases	Number of isolations of Brucella abortus under investigations of suspect cases	Number of abortions due to Brucella infection under investigations of suspect cases	Number of animals tested by microbiology under investigations of suspect cases
HUNGARY	0	0	0	0	0	17,152	0	979,100	12,255	437,740	17,159	0	23	6,460	0	500	0	0	0

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

Region	Number of animals serologically tested under investigations of suspect cases	Number of suspended herds under investigations of suspect cases	Number of seropositive animals under investigations of suspect cases	Number of animals positive in microbiological testing under investigations of suspect cases	Number of herds with status officially free	Number of infected herds	Total number of animals	Number of herds tested under surveillance	Number of animals tested under surveillance	Total number of herds	Number of infected herds tested under surveillance	Number of animals tested by microbiology under investigations of suspect cases
HUNGARY	0	0	0	0	9,456	0	1,035,577	2,325	51,607	9,456	0	0

DISEASE STATUS TABLES

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

Region	Number of herds with status officially free	Number of infected herds	Total number of animals	Interval between routine tuberculin tests	Number of animals tested with tuberculin routine testing	Number of tuberculin tests carried out before the introduction into the herds	Number of animals with suspicious lesions of tuberculosis examined and submitted to histopathological and bacteriological examinations	Number of animals detected positive in bacteriological examination	Total number of herds
HUNGARY	17,148	2	979,100	12	878,276	50,554	433	108	17,159

PREVALENCE TABLES

Table Campylobacter:CAMPYLOBACTER in food

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Meat from bovine animals - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	28	0	Campylobacter	0
	Meat from bovine animals - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	55	0	Campylobacter	0
	Meat from broilers (Gallus gallus) - carcass - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO/TS 10272- 2:2006 Campylobacter	227	38	Campylobacter	38
	Meat from broilers (Gallus gallus) - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	177	63	Campylobacter, unspecified sp.	63
	Meat from broilers (Gallus gallus) - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	301	75	Campylobacter, unspecified sp.	75
	Meat from duck - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	27	6	Campylobacter, unspecified sp.	6
	Meat from duck - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	93	30	Campylobacter, unspecified sp.	30
	Meat from geese - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	33	5	Campylobacter, unspecified sp.	5
	Meat from geese - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	7	0	Campylobacter	0
	Meat from pig - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	149	9	Campylobacter, unspecified sp.	9
	Meat from pig - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	34	0	Campylobacter	0
	Meat from turkey - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	108	29	Campylobacter, unspecified sp.	29
	Meat from turkey - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	84	22	Campylobacter, unspecified sp.	22
	Milk, cows ¹ - raw milk - intended for direct human consumption - Farm - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 10272- 1:2006 Campylobacter	93	1	Campylobacter, unspecified sp.	1

Table Cronobacter:CRONOBACTER in food

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Infant formula - dried - intended for infants below 6 months - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	Detection method presence in x g	54	0	Cronobacter	0

Table Echinococcus:ECHINOCOCCUS in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling Details	Method	Sampling unit	Total units tested	Total units positive	Zoonoses	N of units positive
HUNGARY	Cattle (bovine animals) - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Suspect sampling	N_A	Not Available	animal	4	1	Echinococcus granulosus	1
	Deer - wild - red deer - Hunting - Not Available - Not Available - Surveillance - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Echinococcus	0
	Foxes - Hunting - Not Available - Not Available - Surveillance - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Echinococcus	0
	Pigs - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Suspect sampling	N_A	Not Available	animal	77	22	Echinococcus granulosus	20
							Echinococcus multilocularis	2
	Sheep - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Suspect sampling	N_A	Not Available	animal	6	1	Echinococcus granulosus	1

Table FLAVIVIRUS in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Vaccination status	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Birds - wild - Farm - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	PCR	3	3	West Nile virus	3
	Birds - wild - Hospital or medical care facility - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	Immuno Histo Chemistry (IHC)	2	1	West Nile virus	1
	Birds - wild - Natural habitat - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	Immuno Histo Chemistry (IHC)	1	0	West Nile virus	0
	Birds - wild - Natural habitat - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	PCR	1	0	West Nile virus	0
	Birds - wild - Natural habitat - Not Available - Not Available - Clinical investigations - Official sampling - Suspect sampling	animal	Unknown	N_A	Immuno Histo Chemistry (IHC)	1	0	West Nile virus	0
	Birds - wild - Natural habitat - Not Available - Not Available - Clinical investigations - Official sampling - Suspect sampling	animal	Unknown	N_A	PCR	17	5	West Nile virus	5
	Birds - wild - Zoo - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	Immuno Histo Chemistry (IHC)	1	1	West Nile virus	1
	Birds - wild - Zoo - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	PCR	8	4	West Nile virus	4
	Camels - Farm - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	PCR	1	1	West Nile virus	1
	Solipeds, domestic - Farm - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	IgM-capture ELISA (MAC-ELISA)	273	78	West Nile virus	78
	Solipeds, domestic - Farm - Not Available - Not Available - Clinical investigations - Industry sampling - Suspect sampling	animal	Unknown	N_A	PCR	17	3	West Nile virus	3
	Solipeds, domestic - Farm - Not Available - Not Available - Clinical investigations - Official sampling - Suspect sampling	animal	Unknown	N_A	IgM-capture ELISA (MAC-ELISA)	46	13	West Nile virus	13

Table Lyssavirus:LYSSAVIRUS in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling Details	Method	Sampling unit	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Badgers - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	15	0	Rabies virus	0
	Bats - wild - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	18	1	Lyssavirus	1
	Cats - Veterinary clinics - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	369	0	Rabies virus	0
	Cattle (bovine animals) - Farm - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	26	0	Rabies virus	0
	Deer - wild - roe deer - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	19	0	Rabies virus	0
	Dogs - Veterinary clinics - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	171	0	Rabies virus	0
	Foxes - wild - Hunting - Not Available - Not Available - Monitoring - active - Official sampling - Objective sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	1413	0	Rabies virus	0
	Foxes - wild - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	360	0	Rabies virus	0
	Goats - Farm - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	7	0	Rabies virus	0
	Jackals - wild - Hunting - Not Available - Not Available - Monitoring - active - Official sampling - Objective sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	71	0	Rabies virus	0
	Jackals - wild - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	8	0	Rabies virus	0
	Sheep - Farm - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	16	0	Rabies virus	0
	Solipeds, domestic - Farm - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	9	0	Rabies virus	0
	Wild boars - Natural habitat - Not Available - Not Available - Monitoring - passive - Official sampling - Suspect sampling	N_A	Indirect Immunofluorescent Antibody test (IFAT)	animal	11	0	Rabies virus	0

Table Salmonella:SALMONELLA in food

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Cereals and meals - flakes - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	82	0	Salmonella	0
	Cereals and meals - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	7	0	Salmonella	0
	Cereals and meals - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	39	0	Salmonella	0
	Chocolate - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	23	0	Salmonella	0
	Chocolate - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	70	0	Salmonella	0
	Confectionery products and pastes - Catering - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	82	0	Salmonella	0
	Confectionery products and pastes - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	31	0	Salmonella	0
	Confectionery products and pastes - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	126	0	Salmonella	0
	Dairy products (excluding cheeses) - fermented dairy products - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	8	0	Salmonella	0
	Dairy products (excluding cheeses) - fermented dairy products - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	8	0	Salmonella	0
	Fish - raw - chilled - Farm - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	2	0	Salmonella	0
	Fish - raw - chilled - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	81	0	Salmonella	0
	Fish - smoked - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	116	0	Salmonella	0
	Fishery products, unspecified - non-ready-to-eat - frozen - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	25	0	Salmonella	0
	Fishery products, unspecified - non-ready-to-eat - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	4	0	Salmonella	0
	Fishery products, unspecified - ready-to-eat - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	19	0	Salmonella	0
	Foodstuffs intended for special nutritional uses - processed cereal-based food for infants and young children - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	55	0	Salmonella	0
	Foodstuffs intended for special nutritional uses - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	9	0	Salmonella	0
	Fruits - Farm - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	34	0	Salmonella	0
	Fruits - pre-cut - frozen - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	3	0	Salmonella	0

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Fruits - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	62	0	Salmonella	0
	Meat from broilers (Gallus gallus) - carcass - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	305	79	Salmonella Coeln	1
									Salmonella Infantis	75
									Salmonella Kentucky	3
	Meat from broilers (Gallus gallus) - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	173	44	Salmonella Agona	1
									Salmonella Coeln	4
									Salmonella Hadar	1
									Salmonella I, group O:7	1
									Salmonella Infantis	36
									Salmonella Kentucky	1
	Meat from broilers (Gallus gallus) - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	247	60	Salmonella Enteritidis	1
									Salmonella I, group O:7	1
									Salmonella Infantis	57
									Salmonella Kentucky	1
	Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	12	3	Salmonella Infantis	3
	Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	64	12	Salmonella Infantis	12
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	18	0	Salmonella	0
	Meat from broilers (Gallus gallus) - meat products - cooked, ready-to-eat - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	70	0	Salmonella	0
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - frozen - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	10	1	Salmonella Infantis	1
	Meat from broilers (Gallus gallus) - meat products - raw but intended to be eaten cooked - frozen - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	52	2	Salmonella Infantis	2
	Meat from pig - carcass - Slaughterhouse - Not Available - Not Available - Surveillance - based on Regulation 2073 - Official, based on Regulation 854/2004 - Objective sampling	single (food/feed d)	400	Square centimetre	N_A	ISO 6579:2002	1811	13	Salmonella Bovismorbificans	1
									Salmonella Enteritidis	1
									Salmonella I, group O:3,10	1
									Salmonella Infantis	1
									Salmonella Typhimurium	7
									Salmonella Typhimurium, monophasic	2
	Meat from turkey - carcass - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	353	44	Salmonella Anatum	3
									Salmonella Bredeney	3
									Salmonella Hadar	16
									Salmonella I, group O:7	2
									Salmonella Infantis	9
									Salmonella Kentucky	3
									Salmonella Newport	3
									Salmonella Stanley	5
	Meat from turkey - fresh - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	142	16	Salmonella Anatum	1
									Salmonella Bredeney	1
									Salmonella Hadar	2
									Salmonella Infantis	6
									Salmonella Kentucky	1
									Salmonella Newport	4
									Salmonella Stanley	1

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Meat from turkey - fresh - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	224	20	Salmonella Bredeney	2
									Salmonella Hadar	4
									Salmonella I, group O:4	2
									Salmonella Newport	8
									Salmonella Stanley	4
	Meat from turkey - meat products - raw and intended to be eaten raw - frozen - Catering - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	1	0	Salmonella	0
	Meat from turkey - meat products - raw and intended to be eaten raw - frozen - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	37	0	Salmonella	0
	Meat from turkey - meat products - raw and intended to be eaten raw - frozen - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	168	0	Salmonella	0
	Meat from turkey - meat products - raw and intended to be eaten raw - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	2	0	Salmonella	0
	Meat from turkey - meat products - raw and intended to be eaten raw - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	17	0	Salmonella	0
	Meat from turkey - meat products - raw but intended to be eaten cooked - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	19	0	Salmonella	0
	Meat from turkey - minced meat - intended to be eaten cooked - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	17	0	Salmonella	0
	Meat from turkey - minced meat - intended to be eaten cooked - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	30	6	Salmonella Hadar	1
									Salmonella I, group O:4	1
									Salmonella Infantis	1
									Salmonella Kentucky	1
									Salmonella Newport	1
									Salmonella Stanley	1
	Other processed food products and prepared dishes - meat based dishes - Catering - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	54	0	Salmonella	0
	Other processed food products and prepared dishes - meat based dishes - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	4	0	Salmonella	0
	Other processed food products and prepared dishes - meat based dishes - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	49	0	Salmonella	0
	Seeds, sprouted - ready-to-eat - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	7	0	Salmonella	0
	Seeds, sprouted - ready-to-eat - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	47	0	Salmonella	0
	Spices and herbs - Processing plant - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	22	0	Salmonella	0
	Spices and herbs - Retail - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	131	1	Salmonella Weltevreden	1

Table Salmonella:SALMONELLA in feed

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sample weight	Sample weight unit	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Compound feedingstuffs for cattle - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	16	0	Salmonella	0
	Compound feedingstuffs for pigs - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	58	0	Salmonella	0
	Compound feedingstuffs for poultry (non specified) - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	19	0	Salmonella	0
	Compound feedingstuffs for poultry, breeders - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	5	0	Salmonella	0
	Compound feedingstuffs for poultry, broilers - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	48	1	Salmonella Newport	1
	Compound feedingstuffs for poultry, laying hens - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	24	0	Salmonella	0
	Feed material of cereal grain origin - maize derived - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	10	0	Salmonella	0
	Feed material of cereal grain origin - wheat derived - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	4	0	Salmonella	0
	Feed material of land animal origin - meat meal - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	13	0	Salmonella	0
	Feed material of marine animal origin - fish meal - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	1	0	Salmonella	0
	Feed material of oil seed or fruit origin - rape seed derived - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	3	0	Salmonella	0
	Feed material of oil seed or fruit origin - soya (bean) derived - Feed mill - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	ISO 6579- 1:2017 Salmonella	12	0	Salmonella	0

Table Toxoplasma:TOXOPLASMA in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling Details	Method	Sampling unit	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Cats - pet animals - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Complement fixation test (CFT)	animal	2	0	Toxoplasma	0
	Cats - pet animals - Farm - Not Available - animal sample - foetus/stillbirth - Clinical investigations - Industry sampling - Suspect sampling	N_A	Immuno Histo Chemistry (IHC)	animal	1	0	Toxoplasma	0
	Goats - animals over 1 year - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Complement fixation test (CFT)	animal	1	0	Toxoplasma	0
	Sheep - animals over 1 year - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Complement fixation test (CFT)	animal	6	1	Toxoplasma gondii	1

Table Trichinella:TRICHINELLA in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling Details	Method	Sampling unit	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Foxes - Hunting - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	N_A	Not Available	animal	434	4	Trichinella britovi	3
							Trichinella spiralis	1
	Jackals - Hunting - Not Available - Not Available - Monitoring - Official sampling - Objective sampling	N_A	Not Available	animal	16	1	Trichinella britovi	1
	Pigs - breeding animals - not raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	N_A	Not Available	animal	122383	0	Trichinella	0
	Pigs - fattening pigs - not raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	N_A	Not Available	animal	4550643	0	Trichinella	0
	Rats - Unspecified - Not Available - Not Available - Unspecified - Official sampling - Convenient sampling	N_A	Not Available	animal	20	0	Trichinella	0
	Solipeds, domestic - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	N_A	Not Available	animal	605	0	Trichinella	0
	Wild boars - Game handling establishment - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	N_A	Not Available	animal	64948	20	Trichinella britovi	3
							Trichinella pseudospiralis	1
							Trichinella spiralis	16

Table Yersinia:YERSINIA in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling Details	Method	Sampling unit	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Cattle (bovine animals) - Farm - Not Available - Not Available - Control and eradication programmes - Industry sampling - Suspect sampling	N_A	Not Available	animal	21	2	Yersinia enterocolitica	2
	Cattle (bovine animals) - Farm - Not Available - Not Available - Control and eradication programmes - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Yersinia enterocolitica	0
	Pigs - Farm - Not Available - Not Available - Control and eradication programmes - Industry sampling - Suspect sampling	N_A	Not Available	animal	6	0	Yersinia enterocolitica	0

FOODBORNE OUTBREAKS TABLES

Foodborne Outbreaks: summarized data

Causative agent	Food vehicle	Outbreak strenght							
		Strong				Weak			
		N outbreaks	N human cases	N hospitalized	N deaths	N outbreaks	N human cases	N hospitalized	N deaths
Atropine	Other foods	2	73	17	0				
Bacillus cereus	Broiler meat (Gallus gallus) and products thereof					1	84	1	0
	Vegetables and juices and other products thereof					1	20	0	0
	Other foods					2	60	0	0
Campylobacter	Eggs and egg products					1	15	1	0
	Tap water, including well water	1	240	0	0				
Clostridium perfringens	Pig meat and products thereof					1	63	0	0
	Other foods	1	102	0	0				
Microorganisms	Broiler meat (Gallus gallus) and products thereof	1	6	2	0				
	Other foods					1	16	0	0
Monosodium glutamate	Other foods	1	4	0	0				
Salmonella	Eggs and egg products					3	150	7	0
	Broiler meat (Gallus gallus) and products thereof					1	4	1	0
Salmonella Enteritidis	Eggs and egg products	1	94	10	0				
	Broiler meat (Gallus gallus) and products thereof	1	2	1	0				
	Other foods	1	10	1	0				
Salmonella Enteritidis PT 8	Eggs and egg products	1	228	6	0				
Salmonella Infantis	Other foods	1	61	1	0				
Salmonella Typhimurium	Milk	1	12	0	0				
	Pig meat and products thereof	1	6	1	0				
	Other foods					1	67	4	0
Staphylococcus aureus	Eggs and egg products	1	4	0	0				
	Other foods					2	32	1	0
Unknown	Eggs and egg products					2	48	7	0
	Pig meat and products thereof					1	8	3	0
	Broiler meat (Gallus gallus) and products thereof					2	31	0	0
	Drinks, including bottled water					1	4	0	0
	Other foods					7	250	7	0

Strong Foodborne Outbreaks: detailed data

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Atropine	Not Available	Étbi_10	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unprocessed contaminated ingredient	N_A	1	36	0	0
		Étbi_15	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unprocessed contaminated ingredient	N_A	1	37	17	0
Campylobacter	Not Available	Étbi_34	General	Tap water, including well water	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Household	Water distribution system	Hungary	Water treatment failure	N_A	1	240	0	0
Clostridium perfringens	Not Available	Étbi_36	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Canteen or workplace catering	Canteen or workplace catering	Hungary	Storage time/temperature abuse	N_A	1	102	0	0
Microorganisms	Not Available	Étbi_17	General	Broiler meat (Gallus gallus) and products thereof	N_A	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Cross-contamination	N_A	1	6	2	0

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Monosodium glutamate	Not Available	Étbi_14	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Other contributory factor	N_A	1	4	0	0
Salmonella Enteritidis	Not Available	Étbi_29	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Household	Others	Hungary	Inadequate chilling	N_A	1	10	1	0
		Étbi_31	General	Broiler meat (Gallus gallus) and products thereof	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unprocessed contaminated ingredient	N_A	1	2	1	0
		Étbi_35	General	Eggs and egg products	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Infected food handler	N_A	1	94	10	0
Salmonella Enteritidis PT 8	Not Available	Étbi_16	General	Eggs and egg products	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Cross-contamination	N_A	1	228	6	0
Salmonella Infantis	Not Available	Étbi_41	General	Other foods	N_A	Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Hospital or medical care facility	Canteen or workplace catering	Hungary	Inadequate chilling	N_A	1	61	1	0

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Salmonella Typhimurium	Not Available	Étbi_1	General	Milk	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Household	Mobile retailer or market/street vendor	Hungary	Unknown	N_A	1	12	0	0
		Étbi_5	General	Pig meat and products thereof	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Household	Others	Hungary	Unknown	N_A	1	6	1	0
Staphylococcus aureus	Not Available	Étbi_2	General	Eggs and egg products	N_A	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Infected food handler	N_A	1	4	0	0

Weak Foodborne Outbreaks: detailed data

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Bacillus cereus	Not Available	Étbi_13	General	Other foods	N_A	Unknown	School or kindergarten	Canteen or workplace catering	Hungary	Inadequate heat treatment	N_A	1	34	0	0
		Étbi_26	General	Other foods	N_A	Unknown	Residential institution (nursing home or prison or boarding school)	Canteen or workplace catering	Hungary	Storage time/temperature abuse	N_A	1	26	0	0
		Étbi_37	General	Broiler meat (Gallus gallus) and products thereof	N_A	Unknown	School or kindergarten	Canteen or workplace catering	Hungary	Cross-contamination	N_A	1	84	1	0
		Étbi_4	General	Vegetables and juices and other products thereof	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	20	0	0
Campylobacter	Not Available	Étbi_2	General	Eggs and egg products	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Storage time/temperature abuse	N_A	1	15	1	0
Clostridium perfringens	Not Available	Étbi_12	General	Pig meat and products thereof	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	63	0	0
Microorganisms	Not Available	Étbi_40	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Inadequate chilling	N_A	1	16	0	0

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Salmonella	Not Available	Étbi_22	General	Broiler meat (Gallus gallus) and products thereof	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	4	1	0
		Étbi_27	General	Eggs and egg products	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unprocessed contaminated ingredient	N_A	1	9	0	0
		Étbi_28	General	Eggs and egg products	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unprocessed contaminated ingredient	N_A	1	22	1	0
		Étbi_30	General	Eggs and egg products	N_A	Unknown	School or kindergarten	Canteen or workplace catering	Hungary	Infected food handler	N_A	1	119	6	0
Salmonella Typhimurium	Not Available	Étbi_24	General	Other foods	N_A	Unknown	School or kindergarten	Canteen or workplace catering	Hungary	Cross-contamination	N_A	1	67	4	0
Staphylococcus aureus	Not Available	Étbi_38	General	Other foods	N_A	Unknown	Residential institution (nursing home or prison or boarding school)	Canteen or workplace catering	Hungary	Infected food handler	N_A	1	16	0	0
		Étbi_39	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Inadequate chilling	N_A	1	16	1	0
Unknown	Not Available	Étbi_1	General	Broiler meat (Gallus gallus) and products thereof	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	28	0	0

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Unknown	Not Available	Étbi_18	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	10	0	0
		Étbi_19	General	Eggs and egg products	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Storage time/temperature abuse	N_A	1	26	6	0
		Étbi_20	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	24	1	0
		Étbi_23	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	13	0	0
		Étbi_25	General	Other foods	N_A	Unknown	Temporary mass catering (fairs or festivals)	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Inadequate chilling	N_A	1	90	0	0
		Étbi_3	General	Broiler meat (Gallus gallus) and products thereof	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Storage time/temperature abuse	N_A	1	3	0	0
		Étbi_32	General	Eggs and egg products	N_A	Unknown	Canteen or workplace catering	Canteen or workplace catering	Hungary	Unknown	N_A	1	22	1	0
		Étbi_33	General	Other foods	N_A	Unknown	School or kindergarten	Canteen or workplace catering	Hungary	Unknown	N_A	1	82	6	0

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Unknown	Not Available	Étbi_6	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	14	0	0
		Étbi_7	General	Pig meat and products thereof	N_A	Unknown	Canteen or workplace catering	Canteen or workplace catering	Hungary	Unknown	N_A	1	8	3	0
		Étbi_8	General	Drinks, including bottled water	N_A	Unknown	Household	Others	Hungary	Unknown	N_A	1	4	0	0
		Étbi_9	General	Other foods	N_A	Unknown	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Hungary	Unknown	N_A	1	17	0	0

ANTIMICROBIAL RESISTANCE TABLES FOR CAMPYLOBACTER

Table Antimicrobial susceptibility testing of *Campylobacter jejuni* in *Gallus gallus* (fowl) - broilers

Sampling Stage: Slaughterhouse		Sampling Type: animal sample - caecum		Sampling Context: Monitoring			
Sampler: Official sampling		Sampling Strategy: Objective sampling		Programme Code: AMR MON			
Analytical Method:							
Country of Origin: Hungary							
Sampling details:							
MIC	AM substance	Ciprofloxacin	Erythromycin	Gentamicin	Nalidixic acid	Streptomycin	Tetracycline
	ECOFF	0.5	4	2	16	4	1
	Lowest limit	0.12	1	0.12	1	0.25	0.5
	Highest limit	16	128	16	64	16	64
	N of tested isolates	170	170	170	170	170	170
	N of resistant isolates	156	0	0	156	17	88
	<=0.12	14		45			
	<=0.25					3	
	0.25			50			
	<=0.5						82
0.5			65		24		
<=1		167					
1			10		71		
2	1	3			54		
4	7			12	1		
8	69			2		4	
16	71				1	5	
>16	8				16		
32				6		7	
64				27		28	
>64				123		44	

Table Antimicrobial susceptibility testing of Campylobacter jejuni in Turkeys - fattening flocks

Sampling Stage: Slaughterhouse

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling details:

Sampling Type: animal sample - caecum

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON

MIC	AM substance	Ciprofloxacin	Erythromycin	Gentamicin	Nalidixic acid	Streptomycin	Tetracycline
	ECOFF	0.5	4	2	16	4	1
	Lowest limit	0.12	1	0.12	1	0.25	0.5
	Highest limit	16	128	16	64	16	64
	N of tested isolates	149	149	149	149	149	149
	N of resistant isolates	124	0	0	123	4	69
<=0.12		22		26			
<=0.25						1	
0.25		2		52			
<=0.5							78
0.5		1		65		21	
<=1			148				
1				6		80	2
2			1			43	
4		3			20		
8		71			4		
16		35					3
>16		15				4	
32							10
64					28		24
>64					95		32

ANTIMICROBIAL RESISTANCE TABLES FOR SALMONELLA

Table Antimicrobial susceptibility testing of Salmonella Abony in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Official sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03														
0.03														
<=0.25														
<=0.5														
0.5														
<=2														
2														
<=4														
4														
<=8														
8														
128														

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

Sampler: Industry sampling

Sampling Strategy: Census

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						2								
0.064									1					
<=0.25			2										2	1
<=0.5				2				1						
0.5														1
<=1	1						2							
1								1						
<=2												2		
2	1													
<=4										2				
<=8					2									
8		2												
16											1			
32											1			

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

Sampling Stage: Farm

Sampling Type: animal sample - faeces

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

Sampler: Industry sampling

Sampling Strategy: Census

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1	1						1							
<=2												1		
<=4										1				
<=8					1									
8		1												
32											1			

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=1							1							
1				1				1						
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
32											1			

Table Antimicrobial susceptibility testing of Salmonella Agona in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	1	0	0	0	1	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									3					
0.03						3								
<=0.25			3										3	3
<=0.5				3				3						
<=1	2													
<=2												3		
2							3							
<=4										3				
<=8					2									
8		3												
16											1			
32											2			
>64	1													
>128					1									

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1											1
<=0.5				1				1						
0.5													1	
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1						1			
8		1												

Table Antimicrobial susceptibility testing of Salmonella Anatum in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						3								
<=0.03									3					
<=0.25			3										3	3
<=0.5				3				3						
<=1	1						3							
<=2												3		
2	2													
<=4										3				
4		3												
<=8					3									
16											3			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<=0.015	2														
<=0.03	2														
<=0.25	2														
<=0.5	2														
<=1	2	2													
<=2	2														
<=4	2														
4	2														
<=8	2														
32	1														
128	1														

Table Antimicrobial susceptibility testing of Salmonella Bredeney in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	3	0	0	0	0	3	0	0	0	3	0	3	2	3
MIC														
<=0.03									3					
<=0.25			2											
<=0.5				2				3						
0.5			1			3								
<=1							2							
1				1									1	
2							1						2	
16		3			3						2			
>32														3
64											1			
>64	3											3		
128										1				
>128										2				

Table Antimicrobial susceptibility testing of Salmonella Bredeney in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	29	29	29	29	29	29	29	29	29	29	29	29	29	29
	N of resistant isolates	29	0	0	0	2	29	1	0	0	29	6	29	26	13
<=0.03	29														
<=0.25	24													6	
<=0.5	28				25										
0.5	5			28										10	
<=1	6														
1	1				1		2		3						
2	22							2		26					
4	1														
<=8	2					3									
8	1														
16	28			25										15	
32	1											5			
>32															13
64	1														
>64	27											29			
>128	2					29									
>1024	6														

Table Antimicrobial susceptibility testing of Salmonella Bredeney in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	N of resistant isolates	2	0	0	0	0	2	0	0	0	2	0	2	2	1
<=0.03									2						
<=0.25			2												1
<=0.5					2				2						
0.5							2								
<=1								1							
2								1						2	
16			2			2						2			
>32															1
>64		2											2		
>128											2				

Table Antimicrobial susceptibility testing of Salmonella Coeln in Meat from broilers (Gallus gallus) - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1							1							
<=2												1		
2	1													
<=4										1				
4		1												
<=8					1									
32											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=2												1		
2	1						1							
<=4										1				
4		1												
<=8					1									
64											1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	8	8	8	8	8	8	8	8	8	8	8	8	8	8
N of resistant isolates	0	0	0	0	0	0	1	0	0	0	0	0	0	0
MIC														
<=0.015						1								
<=0.03									6					
0.03						7								
0.064									2					
<=0.25			8										4	3
<=0.5				8				8						
0.5													4	4
<=1							1							
1														1
<=2												8		
2	7						6							
<=4										6				
4	1	4												
<=8					8									
8		4					1			1				
16										1	3			
32											5			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4	4	4
N of resistant isolates	0	0	0	0	0	1	0	0	0	1	0	0	0	0
MIC														
<=0.03									4					
0.03						3								
<=0.25			4										4	4
0.25						1								
<=0.5				4				4						
<=1							1							
<=2												4		
2	4						3							
<=4										3				
4		2												
<=8					4									
8		2												
32											4			
>128										1				

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	0	0	0	0	0	2	0	0	0	2	0	0	0	0
MIC														
<=0.03									2					
0.03						1								
0.064									1					
<=0.25			3										2	2
0.25						1								
<=0.5				3				3						
0.5						1							1	1
<=1							1							
<=2												3		
2	3						2							
<=4										1				
4		2												
<=8					3									
8		1												
16											1			
32											2			
>128										2				

Table Antimicrobial susceptibility testing of Salmonella group O:7 in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	0	0	0	0	0	1	0	0	0	1	1	1	0	1
<=0.03										1					
0.12							1								
<=0.25				1										1	
<=0.5					1				1						
2	1							1							
<=8						1									
8			1												
>32															1
>64													1		
>128											1				
>1024												1			

Table Antimicrobial susceptibility testing of Salmonella Hadar in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	8	8	8	8	8	8	8	8	8	8	8	8	8	8
N of resistant isolates	1	0	0	0	1	8	0	0	0	6	1	8	0	0
MIC														
<=0.03									8					
<=0.25			8										3	8
0.25						1								
<=0.5				8				7						
0.5						7							5	
<=1	2						4							
1								1						
2	5						4							
4		7												
<=8					7									
8		1												
16										2				
32										5	6			
64										1	1	5		
>64	1											3		
128					1									
>1024											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	2	0	0	0	1	0	2	0	0
MIC														
<=0.03	2													
<=0.25	2													
<=0.5	1													
0.5	2													
<=1	1													
1	1													
2	2													
4	2													
<=8	2													
16	1													
32	1													
64	1													
>64	1													

Table Antimicrobial susceptibility testing of Salmonella Hadar in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	N of resistant isolates	2	0	0	0	0	27	0	0	0	14	0	28	0	0
	<=0.03											27			
0.03	1														
0.064											1				
<=0.25	28												9	26	
0.25	3														
<=0.5	28				24										
0.5	21						16								1
<=1	10						6								
1	3						3	3						1	
<=2	1														
2	14						22	1							
<=4											1				
4	2	15													
<=8						27									
8			11												
16				1	1				13			4			
32											14	24			
64													19		
>64	2											9			

Table Antimicrobial susceptibility testing of Salmonella Hadar in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	1	0	1	0	0
MIC														
<=0.03	1													
<=0.5	1													
0.5	1													
1	1													
2	1													
4	1													
<=8	1													
16	1													
32	1													
>64	1													

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
<=0.25			1										1	1
<=0.5				1				1						
0.5						1								
<=1	1						1							
<=2												1		
4		1												
<=8					1									
16										1				
32											1			

Table Antimicrobial susceptibility testing of Salmonella I, group O:4 in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	2	0	0	0	0	2	0	0	0	2	1	2	2	2
MIC														
<=0.03									2					
<=0.25			2											
<=0.5				2				1						
0.5						2								
<=1							1							
1								1						
2							1						2	
16		2			2									
>32														2
64											1			
>64	2											2		
>128										2				
>1024											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	1	0	0	0	0	1	0	0	0	1	1	0	0	0
MIC														
<=0.03									1					
<=0.25			1										1	1
0.25						1								
<=0.5				1				1						
<=2												1		
2							1							
<=8					1									
8		1												
>64	1													
>128										1				
>1024											1			

Table Antimicrobial susceptibility testing of Salmonella Infantis in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampler: HACCP and own check

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: food sample - neck skin

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	5	5	5	5	5	5	5	5	5	5	5	5	5	5
N of resistant isolates	0	0	0	0	0	5	0	0	0	5	4	4	0	0
MIC														
<=0.03	5													
<=0.25	5													
<=0.5	4													
0.5	3													
<=1	4													
1	1													
2	1													
4	4													
<=8	2													
8	4													
16	1													
32	1													
>64	4													
>128	5													
>1024	4													

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON pnl2

Analytical Method:

Country of Origin: Hungary

Sampling Details:

MIC	AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin		
	Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available		
	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available		
	ECOFF	0.125	0.5	0.5	0.5	8	2	2	2	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
	N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4
	N of resistant isolates	4	2	0	0	2	4	2	2	0	0	0	0
<=0.015		4											
<=0.03		4											
<=0.12		1											
0.25		2											
0.5		1											
4		2											
8		4											
16		2											
32		1											
>64		2											

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim									
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2									
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25									
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32									
	N of tested isolates	111	111	111	111	111	111	111	111	111	111	111	111	111	111									
	N of resistant isolates	9	2	2	4	3	111	0	0	0	111	75	77	4	0									
	<=0.03	106																						
0.064	5																							
<=0.25	64										579													
0.25	16																							
<=0.5	55										106													
0.5	45										593931													
<=1	4	69																						
1	48										32	4	631											
<=2											9													
2	39	4										2	42	1	4									
4	56	14	3										1	22										
>4	2																							
<=8	49																							
8	3	48	1										1	3										
16	47										59	5												
32	2										3	24												
64											59													
>64	9											68												
128											1	2												
>128											110													
>1024											75													

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	2	0	0	0	2	0	1	0	0
MIC														
<=0.03	2													
<=0.25	2													
0.25	1													
<=0.5	2													
0.5	1													
1	1													
<=2	1													
2	2													
4	1													
<=8	2													
8	2													
16	1													
64	1													
>64	1													
>128	2													

Table Antimicrobial susceptibility testing of Salmonella Infantis in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim	
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2	
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25	
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32	
	N of tested isolates	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
	N of resistant isolates	8	0	0	0	0	31	1	0	0	31	30	31	5	1	
<=0.03	31															
<=0.25	24														23	
0.25						1										
<=0.5					25	31										
0.5				7	24									4	7	
<=1	1							14								
1					6	4								22		
2	5											16	5			
4	16	3				2	1									
<=8						17										
8	1	12														
16			16			14	1									
>32															1	
64												1				
>64	8											30				
>128											31					
>1024												30				

Table Antimicrobial susceptibility testing of Salmonella Infantis in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	2	0	0	0	2	2	2	0	0
MIC														
<=0.03	2													
<=0.25	211													
0.25	1													
<=0.5	12													
0.5	1													
<=1	11													
1	11													
2	1													
4	11													
<=8	1													
16	1													
>64	2													
>128	2													
>1024	2													

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	1	1	1	0	0
MIC														
<=0.03	1													
<=0.25	1													
<=0.5	1													
<=1	1													
1	1													
4	1													
<=8	1													
8	1													
>64	1													
>128	1													
>1024	1													

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	N of resistant isolates	0	0	0	0	0	2	0	0	0	2	1	1	1	0
<=0.015															
<=0.03															
0.064															
<=0.25															
<=0.5															
0.5															
<=1															
1															
<=2															
2															
<=4															
4															
<=8															
8															
32															
>64															
>128															
>1024															

Table Antimicrobial susceptibility testing of Salmonella Infantis in Meat from broilers (Gallus gallus) - carcase - chilled

Sampling Stage: Slaughterhouse

Sampler: HACCP and own check

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: food sample - neck skin

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim	
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2	
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25	
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32	
	N of tested isolates	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
	N of resistant isolates	6	0	0	0	2	58	0	1	0	58	49	49	6	0	
	<=0.03										57					
0.064										1						
<=0.25	40												2	49		
0.25							5									
<=0.5					35					56						
0.5	18						37					16	9			
<=1								38								
1	23				14			1		34						
<=2													3			
2	18						1	20	6							
4	32	5				1	6									
<=8						24										
8	2	30														
16	23					32										
32						2						6				
>32									1							
64												3				
>64	6											49				
>128											58					
512												1				
>1024												48				

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
32											1			

Table Antimicrobial susceptibility testing of Salmonella Kentucky in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampler: HACCP and own check

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: food sample - neck skin

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	3	0	0	0	0	3	0	1	0	3	1	1	0	0
MIC														
<=0.03									3					
<=0.25			3										2	2
<=0.5				1				2						
0.5													1	1
<=1							3							
1				2										
<=2												2		
4		2												
<=8					3									
8		1				3								
16								1			1			
32											1			
>64	3											1		
>128										3				
>1024											1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	41	41	41	41	41	41	41	41	41	41	41	41	41	41
N of resistant isolates	41	0	0	0	0	41	0	0	0	41	0	0	0	0
MIC														
<=0.03									40					
0.064									1					
<=0.25			39										29	23
<=0.5				2				35						
0.5			2										12	17
<=1							24							
1				37				5						
<=2												41		
2				2			17	1						1
4		26												
<=8					41						1			
8		15				38								
>8						3								
16											4			
32											36			
>64	41													
>128										41				

Table Antimicrobial susceptibility testing of Salmonella Kentucky in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	23	23	23	23	23	23	23	23	23	23	23	23	23	23
N of resistant isolates	21	0	0	0	0	23	0	17	0	23	19	20	0	0
MIC														
<=0.03	23													
<=0.25	23												4	21
<=0.5	7													
0.5	5													
<=1	13													
1	16												2	
<=2	3													
2	10													
4	1													
<=8	23													
8	9													
16	22													
32	15													
64	2													
>64	1													
>128	22													
>1024	19													

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	2	0	0	0	0	2	0	0	0	2	0	0	0	0
MIC														
<=0.03									2					
<=0.25			2										2	2
<=0.5								2						
<=1							2							
1				2										
<=2												2		
4		2												
<=8					2									
8						2								
16											2			
>64	2													
>128										2				

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON pn12

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin
Cefotaxime synergy test	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	Not Available
ECOFF	0.125	0.5	0.5	8	2	2	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	128	128	2	16	16	64
N of tested isolates	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	1	1	1	1	1	1	0	0	0	0
MIC										
<=0.03									1	
0.03							1			
0.25								1		
1	1									
16										1
32		1	1			1				
64					1					
>64				1						

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	1	0	1	1	0	1	0	0	0	1	0	0	0	0
MIC														
<=0.03									1					
<=0.25														1
<=0.5								1						
0.5													1	
<=1							1							
<=2												1		
>4			1											
<=8					1									
8		1												
>8				1		1								
16											1			
>64	1													
>128										1				

Table Antimicrobial susceptibility testing of Salmonella Kentucky in Meat from broilers (Gallus gallus) - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	9	9	9	9	9	9	9	9	9	9	9	9	9	9
N of resistant isolates	9	0	0	0	0	9	0	0	0	9	0	0	0	0
MIC														
<=0.03									8					
0.064									1					
<=0.25			5										9	8
<=0.5				1				9						
0.5			4											1
<=1							8							
1				4										
<=2												9		
2				4			1							
4		6												
<=8					9						1			
8		3				9								
16											6			
32											2			
>64	9													
>128										9				

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
0.064									1					
<=0.25			1											1
<=0.5				1				1						
0.5													1	
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
16											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
<=0.03									1					
<=0.25			1										1	1
<=0.5				1				1						
<=1	1						1							
<=2												1		
<=4										1				
<=8					1									
8		1												
32											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
0.064									1					
<=0.25			1											
<=0.5				1										
0.5													1	1
<=1							1							
1								1						
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
32											1			

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

Sampling Stage: Farm

Sampling Type: animal sample - faeces

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
32											1			

Table Antimicrobial susceptibility testing of Salmonella Newport in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	2	0	0	0	0	3	0	0	0	2	0	2	0	0
MIC														
<=0.03									3					
<=0.25			3										1	3
0.25						1								
<=0.5				3				3						
0.5						2							2	
<=1							1							
<=2												1		
2	1						2							
4		3												
<=8					3									
16										1				
32										1	2			
64											1			
>64	2											2		
128										1				

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	1	0	0	0	0
MIC														
<=0.03	1													
<=0.25	1													
<=0.5	1													
0.5	1													
<=1	1													
<=2	1													
2	1													
4	1													
<=8	1													
32	1													

Table Antimicrobial susceptibility testing of Salmonella Newport in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	N of resistant isolates	29	0	0	0	0	38	4	0	0	22	5	30	0	5
<=0.03									37						
0.064									1						
<=0.25				34										8	25
0.25							6								
<=0.5					38				34						
0.5				4			26							25	8
<=1	5							10							
1							6		4					5	
<=2													8		
2	3							24							
4	1	10						3							
<=8						33									
8			22					1							
16			6			5					16	2			
32											22	27			
>32															5
64												4			
>64	29												30		
>1024												5			

Table Antimicrobial susceptibility testing of Salmonella Newport in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	1	0	0	0	0	1	0	0	0	1	0	1	0	0
MIC														
<=0.03									1					
<=0.25			1											1
<=0.5				1				1						
0.5						1							1	
2							1							
<=8					1									
16		1												
32										1	1			
>64	1											1		

Table Antimicrobial susceptibility testing of Salmonella Newport in Meat from broilers (Gallus gallus) - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	1	0	0	0	0
MIC														
<=0.03									1					
<=0.25			1										1	1
<=0.5				1				1						
0.5						1								
<=1							1							
<=2												1		
2	1													
<=8					1									
8		1												
32										1	1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									2					
0.03						3								
0.064									1					
<=0.25			3										3	3
<=0.5				3				2						
1								1						
<=2												3		
2	3						3							
<=4										3				
<=8					3									
8		3												
16											2			
32											1			

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4	4	4
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03	4													
0.064	4													
<=0.25	2													
<=0.5	2													
0.5	2													
<=1	4													
1	2													
4	4													
8	3													
16	1													
32	2													

Table Antimicrobial susceptibility testing of Salmonella Senftenberg in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4	4	4
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									4					
0.03						4								
<=0.25			4										4	3
<=0.5				4				4						
0.5														1
<=1	4						2							
<=2												4		
2							2							
<=4										4				
4		2												
<=8					4									
8		2												
32											4			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	1	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.064						1								
<=0.5								1						
0.5			1											1
1				1									1	
2							1							
4	1											1		
8										1				
16		1												
32					1						1			

Table Antimicrobial susceptibility testing of Salmonella spp., unspecified in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	1	0	0	0	0	0	1	0	0
MIC														
<=0.03	1													
<=0.25	1													
<=0.5	1													
0.5	1													
<=1	1													
2	1													
<=8	1													
16	1													
32	1													
>64	1													

Table Antimicrobial susceptibility testing of Salmonella Stanley in Meat from turkey - carcase - chilled

Sampling Stage: Slaughterhouse

Sampling Type: food sample - neck skin

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	2	0	0	0	2	0	0	0	0
MIC														
<=0.03														
<=0.25														
0.25														
<=0.5														
<=1														
<=2														
2														
4														
<=8														
32														
>128														

Table Antimicrobial susceptibility testing of Salmonella Stanley in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim	
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2	
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25	
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32	
	N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	N of resistant isolates	0	0	0	0	0	3	0	0	0	3	0	0	0	0	
	<=0.03	3														
	0.12	1														
	<=0.25	33														
	0.25	2														
<=0.5	3															
<=1	3	1														
<=2	3															
2	2															
4	3															
<=8	3															
32	3															
>128	3															

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

Sampling Stage: Farm

Sampling Type: environmental sample - boot swabs

Sampling Context: Control and eradication programmes

Sampler: Industry sampling

Sampling Strategy: Census

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	
<=0.5				1				1						
0.5														1
<=2												1		
2	1						1							
<=4										1				
<=8					1									
8		1												
32											1			

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
<=0.03									1					
<=0.25			1										1	
<=0.5				1				1						
0.5														1
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
128											1			

Table Antimicrobial susceptibility testing of Salmonella Taksony in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1	1													
<=2												1		
2							1							
<=4										1				
4		1												
<=8					1									
32											1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						2								
<=0.03									2					
<=0.25			2										2	2
<=0.5				2				2						
<=1	2						1							
<=2												2		
2							1							
<=4										2				
<=8					2									
8		2												
32											1			
64											1			

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
<=0.03									1					
<=0.25			1										1	
<=0.5				1				1						
0.5														1
<=1	1													
<=2												1		
2							1							
<=4										1				
<=8					1									
8		1												
32											1			

Table Antimicrobial susceptibility testing of Salmonella Thompson in Turkeys - fattening flocks - before slaughter

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<=0.015	1														
<=0.03	1														
<=0.25	11														
<=0.5	1														
<=1	1														
<=2	1														
2	1														
<=4	1														
4	1														
<=8	1														
32	1														

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1										1	1
<=0.5				1				1						
<=1							1							
<=2												1		
2	1													
<=4										1				
<=8					1									
8		1												
32											1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	2	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						2								
<=0.03									2					
0.064						1			1					
<=0.25			3											2
<=0.5				2				2						
0.5													2	
<=1							2							
1				1				1					1	1
<=2												2		
2							1							
<=4										2				
4	1											1		
<=8					2									
8		2												
16		1			1					1	2			
64											1			
>64	2													

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	0	0	0	0	0	0	0	1	0	0	1	0	0	0
<=0.015		1													
<=0.03		1													
<=0.25		1												1	1
<=0.5		1													
<=2		1													
2		1	1												
<=4		1													
4		1													
<=8		1													
32		1													
>1024		1													

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	5	5	5	5	5	5	5	5	5	5	5	5	5	5
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						2								
<=0.03									5					
0.03						3								
<=0.25			5										5	4
<=0.5				5				5						
0.5														1
<=1	2						3							
<=2												5		
2	3						2							
<=4										5				
4		4												
<=8					5									
8		1												
32											5			

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: environmental sample - boot swabs

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
0.03						1								
0.064									1					
<=0.25			1											1
<=0.5				1				1						
0.5													1	
<=2												1		
2	1						1							
<=4										1				
4		1												
<=8					1									
16											1			

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

Sampling Stage: Farm

Sampler: Industry sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	N of resistant isolates	0	0	0	0	0	0	1	1	0	0	1	1	0	0
<=0.015															
<=0.03															
0.03															
0.064															
<=0.25															
<=0.5															
0.5															
<=1															
<=2															
2															
<=4															
4															
<=8															
16															
32															
64															
>64															
>1024															

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

Sampling Stage: Farm

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Details:

Sampling Type: animal sample - faeces

Sampling Strategy: Census

Sampling Context: Control and eradication programmes

Programme Code: AMR MON

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.5	2	16	0.064	2	2	0.125	16	256	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	2	2	2	2	2	2	2	2	2	2	2	2	2	2
N of resistant isolates	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIC														
<=0.015						1								
<=0.03									2					
0.03						1								
<=0.25			2										2	2
<=0.5				2				2						
<=1							1							
<=2												2		
2	2						1							
<=4										2				
4		2												
<=8					2									
16											1			
128											1			

ANTIMICROBIAL RESISTANCE TABLES FOR INDICATOR ESCHERICHIA COLI

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON pnI2

Analytical Method:

Country of Origin: Austria

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	8	0.5	0.5	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	128	128	2	16	16	64
	N of tested isolates	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	1	1	1	1	1	1	0	0	0	0
	MIC										
	<=0.03									1	
0.03							1				
<=0.12								1			
0.25	1										
4						1				1	
8		1	1		1						
64				1							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Austria

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim	
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2	
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25	
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32	
	N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	N of resistant isolates	1	0	1	1	0	0	0	1	0	0	1	1	0	0	
	<=0.015	1														
	<=0.03	1														
	<=0.25														1	1
	<=1								1							
<=2			1													
<=4												1				
>4				1												
<=8						1										
8					1											
16									1							
>64	1											1				
>1024												1				

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Romania

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON pnI2

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin		
	Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available		
MIC	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available		
	ECOFF	0.125	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	128	128	128	2	16	16	64
	N of tested isolates	4	4	4	4	4	4	4	4	4	4	4
	N of resistant isolates	4	4	0	1	3	0	0	0	0	0	0
	<=0.015	4										
	<=0.03	4										
	<=0.064	4										
<=0.12							2	1	4			
0.25							1					
0.5	1					1						
2					1	2						
4	2	1			2							
8	1										1	
16	1				1	1						
32	1											
64	1											

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Romania

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	N of resistant isolates	4	0	4	3	1	3	0	0	0	3	2	3	0	1
<=0.015							1								
<=0.03										4					
<=0.25														4	2
<=0.5					1				2						
0.5															1
<=1								4							
1									2						
<=2			1										1		
2				1	2		1								
<=4											1				
4			2				1								
>4				3											
<=8						3						1			
8							1								
>8					1										
16			1									1			
>32															1
64													1		
>64		4											2		
128											1				
>128						1					2				

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	4	4	4	4	4	4	4	4	4	4	4	4	4	4
MIC	N of resistant isolates	4	0	4	3	1	3	0	0	0	3	2	3	0	1
	>1024	2													

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Unknown

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON pnI2

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
MIC	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Not Available	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	8	0.5	0.5	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	128	128	2	16	16	64
	N of tested isolates	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	1	1	0	0	1	0	0	0	0	0
	<=0.015	1									
	<=0.03	1									
<=0.064	1										
<=0.12	1										
0.25	1										
2	1										
4	1										
16	1										

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Unknown

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
N of resistant isolates	1	0	1	1	0	1	0	0	0	1	1	0	0	1
MIC														
<=0.03														
<=0.5														
0.5														
<=1														
<=2														
2														
4														
<=8														
>8														
>32														
>64														
>128														
>1024														

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON pnI2

Analytical Method:

Country of Origin: Czech Republic

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
MIC	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Negative/Absent	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	8	0.5	0.5	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	128	128	2	16	16	64
	N of tested isolates	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	1	1	1	1	1	1	0	0	0	0
	<=0.03									1	
	0.064							1			
	0.25	1							1		
	8		1	1			1				1
16					1						
>64				1							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Czech Republic

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	N of resistant isolates	1	0	1	1	0	1	0	0	0	1	0	0	0	0
<=0.03															
<=0.25															
<=0.5															
<=1															
<=2															
4															
>4															
<=8															
>8															
16															
>64															
128															

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON pnl2

Sampling Details:

AM substance	MIC											
	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin
Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available		Not Available	Not Available	Not Available	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available
ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
N of tested isolates	158	158	158	158	158	158	158	158	158	158	158	158
N of resistant isolates	130	158	94	94	96	139	94	94	4	0	0	0
<=0.015	68											
<=0.03	158											
0.03	65											
<=0.064	1	62										
0.064	21											
<=0.12	34							19	112			
0.12	27	2										
<=0.25	1											
0.25	69	8						3	46			
0.5	10	18										
1	2	2	14									
2	19	10	4	10	13	3			7			
4	19	16	41	24	5	1	28	84				
8	11	75	45	28	47	53			56			

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin
			Positive/Pres ent	Negative/Abs ent			Positive/Pres ent	Negative/Abs ent				
Cefotaxime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
N of tested isolates	158	158	158	158	158	158	158	158	158	158	158	158
N of resistant isolates	130	158	94	94	96	139	94	94	4	0	0	0
MIC												
16		26		4	3	46		9				11
32		17			20	14						
64		8			67							
>64		4			6							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from broilers (Gallus gallus) - fresh

Sampling Stage: Retail

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: food sample - meat

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	158	158	158	158	158	158	158	158	158	158	158	158	158	158
	N of resistant isolates	158	1	158	139	24	135	0	54	0	132	106	84	0	46
<=0.015							20								
<=0.03										158					
0.03							3								
0.12							5								
<=0.25														155	74
0.25							23								
<=0.5					19				80						
0.5							6							3	37
<=1								158							
1					13		3		23						1
<=2			16										73		
2				13	17		9		1						
<=4											23				
4			97	19	2		12						1		
>4				126											
<=8						133						34			
8			23		36		62				2				
>8					71		15								
16			21			1			10		1	18			
32									14		1		1		
>32									30						46

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	158	158	158	158	158	158	158	158	158	158	158	158	158	158
MIC	N of resistant isolates	158	1	158	139	24	135	0	54	0	132	106	84	0	46
64		5	1			9					8		17		
>64		153											66		
128						10					28				
>128						5					95				
>1024												106			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers

Sampling Stage: Slaughterhouse

Sampling Type: animal sample - caecum

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: AMR MON pnl2

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin		
	Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available		
MIC	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32	
	Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5	
	Highest limit	32	64	64	64	64	128	128	128	2	16	16	64	
	N of tested isolates	5	5	5	5	5	5	5	5	5	5	5	5	
	N of resistant isolates	2	5	4	4	4	5	3	3	1	0	0	0	
	<=0.015	2												
	<=0.03	5												
	0.03	2												
	<=0.064	1	1											
	<=0.12	1												
	0.12	2	2											
0.25	1	3												
0.5	1													
1	1		2											
2	1					1								
4	1	1			1									
8	3		2		2		2							
16	1		1											
32	1													

AM substance			Cefotaxime + Clavulanic acid				Ceftazidime + Clavulanic acid					
	Cefepime	Cefotaxim										
Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available
ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
N of tested isolates	5	5	5	5	5	5	5	5	5	5	5	5
N of resistant isolates	2	5	4	4	4	5	3	3	1	0	0	0
MIC												
64					2							
>64					1							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers

Sampling Stage: Slaughterhouse

Sampling Type: animal sample - caecum

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	N of resistant isolates	85	3	5	5	29	143	0	14	0	126	73	72	0	48
<=0.015							27								
<=0.03										170					
0.12							3								
<=0.25				165										160	85
0.25							32								
<=0.5					165				112						
0.5							21							9	36
<=1		3						162							
1				1	2		14		40					1	1
<=2			16										96		
2		45					5	8	4						
<=4											28				
4		31	83				18						2		
>4				4											
<=8						135						44			
8		6	63		1		37		1		9				
>8					2		13								
16			5			6			3		7	49			
32			2			3			2		3	4			
>32									8						48
64		1	1			5					4		11		

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	170	170	170	170	170	170	170	170	170	170	170	170	170	170
MIC	N of resistant isolates	85	3	5	5	29	143	0	14	0	126	73	72	0	48
	>64	84											61		
	128					10					22				
	>128					11					97				
	>1024											73			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers

Sampling Stage: Slaughterhouse

Sampling Type: animal sample - caecum

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON pnl2

Analytical Method:

Country of Origin: Hungary

Sampling Details:

AM substance	Cefepime		Cefotaxim		Cefotaxime + Clavulanic acid		Cefoxitin		Ceftazidim		Ceftazidime + Clavulanic acid		Ertapenem		Imipenem		Meropenem		Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Negative/Absent	Not Available	Positive/Present	Negative/Absent	Not Available	Not Available	Not Available		Not Available		Not Available	Not Available	Not Available	Not Available	Not Available		
MIC	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Present	Negative/Absent	Not Available		Not Available	Not Available	Not Available	Not Available			
	ECOFF	0.125	0.25	0.25	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06		0.5	0.125	32				
	Lowest limit	0.064	0.25	0.25	0.064	0.064	0.064	0.5	0.25	0.12	0.12	0.015		0.12	0.03	0.5				
	Highest limit	32	64	64	64	64	64	64	128	128	128	2		16	16	64				
	N of tested isolates	207	207	207	207	207	207	207	207	207	207	207		207	207	207				
	N of resistant isolates	187	207	207	129	129	129	135	190	128	128	4		0	0	0				
	<=0.015	73																		
	<=0.03	207																		
	0.03	78																		
	<=0.064	1	67																	
	0.064	52																		
	<=0.12	39										15	113							
	0.12	19	11										3							
	0.25	93											16	6	1	93				
	0.5	28									17	2	1	1						
1	4									14										
2	13	7						1	2	25	4				5					
4	30	22						43	27	5	30				69					
8	17	93	1			76		43	51	81				112						
16	1	47	1	8			7	77	13				17							

AM substance	Cefepime		Cefotaxim		Cefotaxime + Clavulanic acid		Cefoxitin		Ceftazidim		Ceftazidime + Clavulanic acid		Ertapenem		Imipenem		Meropenem		Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Negative/Absent	Not Available	Positive/Present	Negative/Absent	Not Available	Not Available	Not Available		Not Available		Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Present	Negative/Absent	Not Available		Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06		0.5	0.125	32				
	Lowest limit	0.064	0.25	0.25	0.064	0.064	0.064	0.5	0.25	0.12	0.12	0.015		0.12	0.03	0.5				
	Highest limit	32	64	64	64	64	64	64	128	128	128	2		16	16	64				
	N of tested isolates	207	207	207	207	207	207	207	207	207	207	207		207	207	207				
MIC	N of resistant isolates	187	207	207	129	129	129	135	190	128	128	4		0	0	0				
32			19					14	18									4		
>32		1																		
64			10					90												
>64			8					24												

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Gallus gallus (fowl) - broilers

Sampling Stage: Slaughterhouse

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: animal sample - caecum

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	207	207	207	207	207	207	207	207	207	207	207	207	207	207
	N of resistant isolates	207	2	207	189	29	174	0	55	0	161	135	114	0	54
<=0.015							23								
<=0.03										206					
0.03							9								
0.064							1			1					
0.12							3								
<=0.25														200	91
0.25							28								
<=0.5					18				112						
0.5							16							7	58
<=1								207							
1					19		6		34						4
<=2			17										85		
2				9	19		3		6						
<=4											33				
4			119	28	4		19		2				8		
>4				170											
<=8						169						36			
8			46		38		64		1		5				
>8					109		35								
16			23			9			6		8	31			
32						1			8		1	4	1		

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	207	207	207	207	207	207	207	207	207	207	207	207	207	207
MIC	N of resistant isolates	207	2	207	189	29	174	0	55	0	161	135	114	0	54
	>32								38						54
	64	1	2			10					9	1	19		
	>64	206											94		
	128					12					14				
	>128					6					137				
	1024											2			
	>1024											133			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Turkeys - fattening flocks

Sampling Stage: Slaughterhouse

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: animal sample - caecum

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON pnl2

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin	
	Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	
	Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Not Available	Not Available	Not Available	Not Available	
	ECOFF	0.125	0.25	0.25	8	0.5	0.5	0.06	0.5	0.125	32
	Lowest limit	0.064	0.25	0.064	0.5	0.25	0.12	0.015	0.12	0.03	0.5
	Highest limit	32	64	64	64	128	128	2	16	16	64
	N of tested isolates	1	1	1	1	1	1	1	1	1	1
MIC	N of resistant isolates	1	1	0	0	1	0	0	0	0	0
<=0.015							1				
<=0.03									1		
<=0.064			1								
<=0.12								1			
0.25						1					
4		1	1								
8					1						
64		1									

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Turkeys - fattening flocks

Sampling Stage: Slaughterhouse

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: animal sample - caecum

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: AMR MON

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	N of resistant isolates	89	6	1	1	40	104	0	4	0	80	56	129	0	36
<=0.015							55								
<=0.03										169					
0.03							10								
0.064							1			1					
0.12							7								
<=0.25				169										156	85
0.25							24								
<=0.5					169				118						
0.5							16							14	41
<=1		2						162							
1							2		44						7
<=2			28										40		
2		42					3	8	4						1
<=4											66				
4		31	95				6						1		
>4				1											
<=8						128						52			
8		6	35		1		19				11				
>8							27								
16			6			2					13	42	1		
32			4			1			1		3	18	1		

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	170	170	170	170	170	170	170	170	170	170	170	170	170	170
MIC	N of resistant isolates	89	6	1	1	40	104	0	4	0	80	56	129	0	36
	>32								3						36
	64	2	1			9					9	2	30		
	>64	87	1										97		
	128					15					11				
	>128					15					57				
	256											1			
	>1024											55			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Turkeys - fattening flocks

Sampling Stage: Slaughterhouse

Sampler: Official sampling

Analytical Method:

Country of Origin: Hungary

Sampling Type: animal sample - caecum

Sampling Strategy: Objective sampling

Sampling Context: Monitoring

Programme Code: ESBL MON pnl2

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin		
Cefotaxime synergy test	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available		
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Positive/Pres ent	Negative/Abs ent	Not Available	Not Available	Not Available	
ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
N of tested isolates	71	71	71	71	71	71	71	71	71	71	71	71
N of resistant isolates	50	71	42	42	44	71	42	42	2	0	0	0
MIC												
<=0.015	42											
<=0.03	71											
0.03	15											
<=0.064	2	24										
0.064	12											
<=0.12	19											
0.12	19	5										
0.25	17	8										
0.5	5	2										
1	1	1										
2	13	3	5									
4	7	16	21									
8	7	18	13									
16		12	1									

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin
			Positive/Pres ent	Negative/Abs ent			Positive/Pres ent	Negative/Abs ent				
Cefotaxime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ECOFF	0.125	0.25	0.25	0.25	8	0.5	0.5	0.5	0.06	0.5	0.125	32
Lowest limit	0.064	0.25	0.064	0.064	0.5	0.25	0.12	0.12	0.015	0.12	0.03	0.5
Highest limit	32	64	64	64	64	128	128	128	2	16	16	64
N of tested isolates	71	71	71	71	71	71	71	71	71	71	71	71
N of resistant isolates	50	71	42	42	44	71	42	42	2	0	0	0
MIC												
32		11			13	4		1				
64		6			23							
>64		5			6							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Turkeys - fattening flocks

Sampling Stage: Slaughterhouse

Sampling Type: animal sample - caecum

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON

Analytical Method:

Country of Origin: Hungary

Sampling Details:

MIC	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	71	71	71	71	71	71	71	71	71	71	71	71	71	71
	N of resistant isolates	71	1	71	71	15	60	0	4	0	57	50	52	0	18
<=0.015							10								
<=0.03										70					
0.03							1								
0.064										1					
0.12							2								
<=0.25														69	34
0.25							24								
<=0.5									58						
0.5							10							2	19
<=1								68							
1					10		1		9						
<=2			7											19	
2				4	10			3							
<=4											11				
4			45	19	12		2								
>4				48											
<=8						50						8			
8			18		20		8		1		3				
>8					19		13								
16						6			1			10			
32											1	3	3		

	AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Colistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
	ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
	Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25
	Highest limit	64	64	4	8	128	8	16	32	16	128	1024	64	8	32
	N of tested isolates	71	71	71	71	71	71	71	71	71	71	71	71	71	71
MIC	N of resistant isolates	71	1	71	71	15	60	0	4	0	57	50	52	0	18
	>32								2						18
	64	12	1			3					6		7		
	>64	59											42		
	128					6					20				
	>128					6					30				
	>1024											50			

Specific monitoring of ESBL-/AmpC-/carbapenemase-producing bacteria and specific monitoring of carbapenemase-producing bacteria, in the absence of isolate detected

Programme Code	Matrix Detailed	Zoonotic Agent Detailed	Sampling Strategy	Sampling Stage	Sampling Details	Sampling Context	Sampler	Sample Type	Sampling Unit Type	Sample Origin	Comment	Total Units Tested	Total Units Positive
CARBA MON	Gallus gallus (fowl) - broilers	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Slaughterhouse	N_A	Monitoring	Official sampling	animal sample - caecum	slaughter animal batch	Hungary	N_A	300	0
	Meat from broilers (Gallus gallus) - fresh	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Retail	sampOrigins are variable	Monitoring	Official sampling	food sample - meat	batch (food/feed)	Unknown	N_A	223	0
	Turkeys - fattening flocks	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Slaughterhouse	N_A	Monitoring	Official sampling	animal sample - caecum	slaughter animal batch	Hungary	N_A	300	0

Specific monitoring of ESBL-/AmpC-/carbapenemase-producing bacteria and specific monitoring of carbapenemase-producing bacteria, in the absence of isolate detected

Latest Transmission set

Table Name	Last submitted dataset transmission date
Antimicrobial Resistance	06-Sep-2019
Esbl	25-Jul-2019
Animal Population	25-Jul-2019
Disease Status	25-Jul-2019
Food Borne Outbreaks	11-Sep-2019
Prevalence	25-Jul-2019

1. Institutions and laboratories involved in antimicrobial resistance monitoring and reporting

- National Food Chain Safety Office Directorate of Veterinary Diagnostic NRL for AMR
- National Food Chain Safety Office Directorate of Food and Feed Safety Laboratory of NRL for *Salmonella*

2. General Description of Antimicrobial Resistance Monitoring; Indicator *E. coli* from domestic broilers- caecal samples

1. General description of sampling design and strategy

The number of samples per animal population was planned for the specific ESBL/AmpC monitoring (300).

Sampling technique: Caecum should be cut out and placed into a plastic bag, closed properly and cooled +2 — +8 °C, transported within 48h.

- stage of sampling: Samples were taken at slaughterhouses.
- type of sample: Caecal samples were taken from domestic broilers.
- sampler: competent authorities

Frequency of sampling: Every month, evenly distributed over the whole year

Procedure of selection of isolates for susceptibility testing: In ESBL/AmpC/Carbapenemase monitoring program: *E. coli* isolates growing on Cefotaxim-McConkey plates were submitted to MIC-determination.

Randomized selection of 200 commensal *E. coli* isolations for general susceptibility tests.

Method used for collecting data: Along with the samples, a paper form submitted containing the data regarding sampling and origin of sample and the code of epidemiological unit (area) for identification.

2. Stratification procedure per animal population and food category

The sampling was stratified at slaughterhouse level based on the annual production data of the previous year (2017). Selection of slaughterhouses was made according to their production starting with higher throughput. So, bigger slaughterhouses produced together above the 60% of the total national production were involved into sampling. The number of samples had distributed per slaughterhouse proportionally to the annual throughput of the slaughterhouse.

3. Randomisation procedure per animal population and food category

Sampling days were defined for the availability of courier service by authority. After exclusion of epidemiological units already sampled in that year, samples were randomly collected at slaughterhouses on the day suitable for submission of samples in required time frame with even distribution by date. Samples were randomly collected from different suitable epidemiological units manually.

The random sampling was stratified at one level. The central authority (NFCSSO) had distributed the sample numbers based on the annual slaughter capacity per slaughterhouses proportionally to the annual throughput of the slaughterhouse starting with the higher producer.

4. Analytical method used for detection and confirmation

Identification of bacterial isolates is performed by chromogenic media ('in house made' Coliform agar), indole and oxidase tests and when necessary additional API ID32E biochemical tests.

Selective isolation of ESBL/AmpC/Carbapenemase-producing *E. coli* is performed by 'in house made' selective MacConkey agar plates supplemented with 1 mg/L cefotaxime.

Selective isolation of Carbapenemase-producing *E. coli* is performed by chromID CarbaSmart (purchased from bioMérieux)

5. Laboratory methodology used for detection of antimicrobial resistance

Broth microdilution using the Sensititre system.

Antimicrobials were ampicillin, azithromycin, cefotaxime, ceftazidime, chloramphenicol, ciprofloxacin, colistin, gentamicin, meropenem, nalidixic acid, sulphamethoxazole, tetracycline, tigecycline and trimethoprim (first panel) and cefepime, cefotaxime, cefotaxime+clavulanic acid, ceftazidime, ceftazidime+clavulanic acid, ertapenem, imipenem, meropenem and temocillin for extended susceptibility testing (second panel).

Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

3. General Description of Antimicrobial Resistance Monitoring; Indicator *E. coli* from fattening turkeys- caecal samples

1. General description of sampling design and strategy

The number of samples per animal population was planned for the specific ESBL/AmpC monitoring (300).

Sampling technique: Caecum should be cut out and placed into a plastic bag, closed properly and cooled +2 — +8 °C, transported within 48h.

- stage of sampling: Samples were taken at slaughterhouses.
- type of sample: Caecal samples were taken from domestic fattening turkeys.
- sampler: competent authorities

Frequency of sampling: Every month, evenly distributed over the whole year

Procedure of selection of isolates for susceptibility testing: In ESBL/AmpC/Carbapenemase monitoring program: *E. coli* isolates growing on Cefotaxim-McConkey plates were submitted to MIC-determination.

Randomized selection of 200 commensal *E. coli* isolations for general susceptibility tests.

Method used for collecting data: Along with the samples, a paper form submitted containing the data regarding sampling and origin of sample and the code of epidemiological unit (area) for identification.

2. Stratification procedure per animal population and food category

The sampling was stratified at slaughterhouse level based on the annual production data of the previous year (2017). Selection of slaughterhouses was made according to their production starting with higher throughput. So, bigger slaughterhouses produced together above the 60% of the total national production were involved into sampling. The number of samples had distributed per slaughterhouse proportionally to the annual throughput of the slaughterhouse.

3. Randomisation procedure per animal population and food category

Sampling days were defined for the availability of courier service by authority. After exclusion of epidemiological units already sampled in that year, samples were randomly collected at slaughterhouses on the day suitable for submission of samples in required time frame with even distribution by date. Samples were randomly collected from different suitable epidemiological units manually.

The random sampling was stratified at one level. The central authority (NFCSSO) had distributed the sample numbers based on the annual slaughter capacity per slaughterhouses proportionally to the

annual throughput of the slaughterhouse starting with the higher producer.
4. Analytical method used for detection and confirmation
Identification of bacterial isolates is performed by chromogenic media ('in house made' Coliform agar), indole and oxidase tests and when necessary additional API ID32E biochemical tests. Selective isolation of ESBL/AmpC/Carbapenemase-producing <i>E. coli</i> is performed by 'in house made' selective MacConkey agar plates supplemented with 1 mg/L cefotaxime. Selective isolation of Carbapenemase-producing <i>E. coli</i> is performed by chromID CarbaSmart (purchased from bioMérieux)
5. Laboratory methodology used for detection of antimicrobial resistance
Broth microdilution using the Sensititre system. Antimicrobials were ampicillin, azithromycin, cefotaxime, ceftazidime, chloramphenicol, ciprofloxacin, colistin, gentamicin, meropenem, nalidixic acid, sulphamethoxazole, tetracycline, tigecycline and trimethoprim (first panel) and cefepime, cefotaxime, cefotaxime+clavulanic acid, ceftiofur, ceftazidime, ceftazidime+clavulanic acid, ertapenem, imipenem, meropenem and temocillin for extended susceptibility testing (second panel). Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

4. General Description of Antimicrobial Resistance Monitoring; Indicator <i>E. coli</i> from domestic broilers-meat samples
1. General description of sampling design and strategy
The number of samples of each food category (broiler chicken fresh meat) was planned for the specific ESBL/AmpC monitoring (300 samples per a year). Sampling technique: Manual pick up of samples from the refrigerator in the shop. - stage of sampling: Samples were taken at retail outlets. - type of sample: Fresh meat from broilers - sampler: competent authorities Frequency of sampling: Every month Procedure of selection of isolates for susceptibility testing: <i>E. coli</i> isolates growing on Cefotaxim-McConkey plate were submitted to MIC-determination. Method used for collecting data: Along with the samples, a paper form submitted containing the data regarding sampling and origin of sample and the code of epidemiological unit (area) for identification.
2. Stratification procedure per animal population and food category
The random sampling was stratified geographically by counties based on the human population according to NUTS3 level.
3. Randomisation procedure per animal population and food category
Samples were randomly collected at retail with even distribution of the date. Retail shops were chosen randomly excluding the shops visited earlier.
4. Analytical method used for detection and confirmation
Identification of bacterial isolates is performed by chromogenic media ('in house made' Coliform

agar), indole and oxidase tests and when necessary additional API ID32E biochemical tests.

Selective isolation of ESBL/AmpC/Carbapenemase-producing *E. coli* is performed by 'in house made' selective MacConkey agar plates supplemented with 1 mg/L cefotaxime.

Selective isolation of Carbapenemase-producing *E. coli* is performed by chromID CarbaSmart (purchased from bioMérieux)

5. Laboratory methodology used for detection of antimicrobial resistance

Broth microdilution using the Sensititre system.

Antimicrobials were ampicillin, azithromycin, cefotaxime, ceftazidime, chloramphenicol, ciprofloxacin, colistin, gentamicin, meropenem, nalidixic acid, sulphamethoxazole, tetracycline, tigecycline and trimethoprim (first panel) and cefepime, cefotaxime, cefotaxime+clavulanic acid, ceftazidime, ceftazidime+clavulanic acid, ertapenem, imipenem, meropenem and temocillin for extended susceptibility testing (second panel).

Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

5. General Description of Antimicrobial Resistance Monitoring; Campylobacter jejuni from domestic broilers-caecal samples

1. General description of sampling design and strategy

The number of caecal samples per animal population was planned to achieve the required number of *Campylobacter jejuni*. Prevalence was estimated based on the results of 2016.

Sampling technique:

Caecum should be cut and dropped into a plastic bag, cooled +2-+8°C, transported within 48h

- stage of sampling: Samples were taken at slaughterhouses.
- type of sample: Caecal samples were taken from domestic broilers.
- sampler: competent authorities

Frequency of sampling: Every month, evenly distributed over the whole year

Procedure of selection of isolates for susceptibility testing: We used PCR method for submit the *Campylobacter jejuni* isolates to MIC determination.

Method used for collecting data: Along with the samples, a paper form submitted containing the data regarding sampling and origin of sample and the code of epidemiological unit (area) for identification.

2. Stratification procedure per animal population and food category

The sampling was stratified at slaughterhouse level based on the annual production data of the previous year (2017). Selection of slaughterhouses was made according to their production starting with higher throughput. So, bigger slaughterhouses produced together above the 60% of the total national production were involved into sampling. The number of samples had distributed per slaughterhouse proportionally to the annual throughput of the slaughterhouse.

3. Randomisation procedure per animal population and food category

Sampling days were defined for the availability of courier service by authority. After exclusion of epidemiological units already sampled in that year, samples were randomly collected at slaughterhouses on the day suitable for submission of samples in required time frame with even distribution by date. Samples were randomly collected from different suitable epidemiological units

manually.
The random sampling was stratified at one level. The central authority (NFC SO) had distributed the sample numbers based on the annual slaughter capacity per slaughterhouses proportionally to the annual throughput of the slaughterhouse starting with the higher producer.
4. Analytical method used for detection and confirmation
Isolation of bacterial isolates is performed by CCDA agar ('in house made') and identification of Campylobacter isolates are performed by PCR method furthermore we used also oxidase tests for identification by biochemical tests.
5. Laboratory methodology used for detection of antimicrobial resistance
Broth microdilution using the Sensititre system. Antimicrobials were ciprofloxacin, erythromycin, gentamicin, nalidixic acid, streptomycin, tetracycline Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

6. General Description of Antimicrobial Resistance Monitoring; Campylobacter jejuni from fattening turkey- caecal samples
1. General description of sampling design and strategy
The number of caecal samples per animal population was planned to achieve the required number of Campylobacter jejuni. Prevalence was estimated based on the results of 2016. Sampling technique: Caecum should be cut and dropped into a plastic bag, cooled +2-+8°C, transported within 48h - stage of sampling: Samples were taken at slaughterhouses. - type of sample: Caecal samples were taken from fattening turkey. - sampler: competent authorities Frequency of sampling: Every month, evenly distributed over the whole year. Procedure of selection of isolates for susceptibility testing: We used PCR method for submit the Campylobacter jejuni isolates to MIC determination. Method used for collecting data: Along with the samples, a paper form submitted containing the data regarding sampling and origin of sample and the code of epidemiological unit (area) for identification.
2. Stratification procedure per animal population and food category
The sampling was stratified at slaughterhouse level based on the annual production data of the previous year (2017). Selection of slaughterhouses was made according to their production starting with higher throughput. So, bigger slaughterhouses produced together above the 60% of the total national production were involved into sampling. The number of samples had distributed per slaughterhouse proportionally to the annual throughput of the slaughterhouse.
3. Randomisation procedure per animal population and food category
Sampling days were defined for the availability of courier service by authority. After exclusion of epidemiological units already sampled in that year, samples were randomly collected at slaughterhouses on the day suitable for submission of samples in required time frame with even distribution by date. Samples were randomly collected from different suitable epidemiological units manually. The random sampling was stratified at one level. The central authority (NFC SO) had distributed the sample numbers based on the annual slaughter capacity per slaughterhouses proportionally to the

annual throughput of the slaughterhouse starting with the higher producer.
4. Analytical method used for detection and confirmation
Isolation of bacterial isolates is performed by CCDA agar ('in house made') and identification of <i>Campylobacter</i> isolates are performed by PCR method, furthermore we used oxidase tests also for identification by biochemical test.
5. Laboratory methodology used for detection of antimicrobial resistance
Broth microdilution using the Sensititre system. Antimicrobials were ciprofloxacin, erythromycin, gentamicin, nalidixic acid, streptomycin, tetracycline Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

7. General Description of Antimicrobial Resistance Monitoring; Salmonella – domestic broilers, fattening turkeys, laying hens, domestic broiler and fattening turkey neck skin
1. General description of sampling design and strategy
Sampling technique: - stage- and frequency of sampling, type of sample: according to regulations - sampler: competent authorities Procedure of selection of isolates for susceptibility testing: Randomized Method used for collecting data: electronic datasheets
2. Stratification procedure per animal population and food category
The NRL- <i>Salmonella</i> collects <i>Salmonella</i> isolates for typing from the whole country according to the regulations.
3. Randomisation procedure per animal population and food category
The required No. of <i>Salmonella</i> isolates were randomly selected from the actual monthly isolates collected by the NRL- <i>Salmonella</i> to obtain the defined 170 isolates/year in an even distribution. All 170 isolates submitted to the NRL-AR were included into antimicrobial susceptibility testing. If the No. of collected isolates from a special matrix were lower than required, all available isolates were submitted for susceptibility testing.
4. Analytical method used for detection and confirmation
Isolates were collected and serotyped at the NRL for <i>Salmonella</i> under the Food and Feed Safety Directorate. These isolates are confirmed on selective Rambach agar plates (purchased from VWR) and additional agglutination tests if it is necessary at the NRL-AR.
5. Laboratory methodology used for detection of antimicrobial resistance
Antimicrobials included in monitoring for <i>Salmonella</i> sp. were ampicillin, azithromycin, cefotaxime, ceftazidime, chloramphenicol, ciprofloxacin, colistin, gentamicin, meropenem, nalidixic acid, sulphamethoxazole, tetracycline, tigecycline and trimethoprim (first panel). and cefepime, cefotaxime, cefotaxime+clavulanic acid, ceftazidime, ceftazidime+clavulanic acid, ertapenem, imipenem, meropenem and temocillin for extended susceptibility testing (second panel). Results were interpreted using the EFSA published epidemiological cut-off (ECOFF) values.

