

United Kingdom

TRENDS AND SOURCES OF ZOONOSES 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 2019

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 United Kingdom during the year 2019.

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	herd/flock
Cattle (bovine animals)	Cattle (bovine animals)	9,742,132	97,196
Deer	Deer - farmed	38,109	
Gallus gallus (fowl)	Gallus gallus (fowl) - breeding flocks, unspecified - adult	13,196,823	1,604
	Gallus gallus (fowl) - broilers	116,675,828	54,417
	Gallus gallus (fowl) - laying hens	41,534,810	4,614
Goats	Goats	111,589	
Pigs	Pigs	5,077,859	
Poultry, unspecified	Poultry, unspecified	187,020,180	
Sheep	Sheep	33,486,748	
Sheep and goats	Sheep and goats	18,590,750	80,696
Solipeds, domestic	Solipeds, domestic - horses	250,327	
Turkeys	Turkeys	3,957,634	2,698
	Turkeys - breeding flocks, unspecified - adult		273
	Turkeys - fattening flocks		2,425

DISEASE STATUS TABLES

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

Region	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	Total number of herds	Number of herds tested under surveillance by bulk milk	Number of notified abortions whatever cause under investigations of suspect cases	Number of abortions due to Brucella infection under investigations of suspect cases
UNITED KINGDOM	0	97,196	0	9,742,132	97,196	17,842	4,895	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 herds with status officially free	Number of infected herds	Number of herds tested under surveillance	Number of animals tested under surveillance	Total number of herds	Number of animals tested by microbiology under investigations of suspect cases
UNITED KINGDOM	1	80,696	0	1,118	17,833	80,696	0

DISEASE STATUS TABLES

Table Bovine tuberculosis - data on animals - Community co-financed eradication programmes

Region	Total number of animals	Number of animals to be tested under the program	Number of animals tested	Number of animals tested individually	Number of positive animals	Number of positive animals slaughtered	Total number of animals slaughtered
UNITED KINGDOM	5,279,566	5,279,566	4,189,401	4,189,401	30,310	30,310	31,102
WALES	1,119,844				8,711	8,711	12,256
NORTHERN IRELAND (NUTS level 1)	1,732,196	1,732,196	1,732,196	1,732,196	13,019	13,019	14,231

Table Bovine tuberculosis - data on herds - Community co-financed eradication programmes

Region	Number of new positive herds	Number of depopulated herds	Total number of herds	Number of herds under the program	Number of herds under the program tested/checked	Number of positive herds
UNITED KINGDOM	3,297	30	49,411	49,411	32,484	5,796
WALES	665	4	11,769	11,769	10,490	1,289
NORTHERN IRELAND (NUTS level 1)	1,757	17	23,263	23,253	22,398	2,446

Table Bovine tuberculosis - data on status of herds at the end of the period - Community co-financed eradication programmes

Region	Total number of herds under the program, at the end of the period	Total number of animals under the program, at the end of the period	Number of herds with unknown status, at the end of the period	Number of animals with unknown status, at the end of the period	Number of herds with status not free or not officially free and last check positive, at the end of the period	Number of animals with status not free or not officially free and last check positive, at the end of the period	Number of herds with status not free or not officially free and last check negative, at the end of the period	Number of animals with status not free or not officially free and last check negative, at the end of the period	Number of herds with status free or officially free suspended, at the end of the period	Number of animals with status free or officially free suspended, at the end of the period	Number of herds with status free, at the end of the period	Number of animals with status free, at the end of the period	Number of herds with status officially free, at the end of the period	Number of animals with status officially free, at the end of the period
UNITED KINGDOM	49,411	5,279,566	0	0	1,872	559,031	0	0	1,867	333,225	0	0	45,672	4,387,310
WALES	11,769	1,119,844	0	0	613	154,825	0	0	293	32,559	0	0	10,863	932,460
NORTHERN IRELAND (NUTS level 1)	23,253	1,732,196	0	0	771	145,700	1,168	152,467	1,153	89,989	0	0	20,171	1,344,040

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
SCOTLAND (NUTS level 1)	12,746	12	1,610,526	48	247,989	1,951	35	11	12,753

PREVALENCE TABLES

Table Brucella:BRUCELLA 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	Alpacas - farmed - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Unspecified	animal	8	0	Brucella	0
	Alpacas - farmed - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	391	0	Brucella	0
	Camels - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	76	0	Brucella	0
	Deer - farmed - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Unspecified	animal	14	0	Brucella	0
	Deer - farmed - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	63	0	Brucella	0
	Pigs - Artificial insemination station - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	4221	0	Brucella	0
	Pigs - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Unspecified	animal	198	0	Brucella	0
	Pigs - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	331	0	Brucella	0
	Sheep - Artificial insemination station - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	2	0	Brucella	0
	Sheep - Farm - Not Available - animal sample - blood - Clinical investigations - Industry sampling - Suspect sampling	N_A	Unspecified	animal	114	0	Brucella	0
	Sheep - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Objective sampling	N_A	Unspecified	animal	315	0	Brucella	0
	Sheep and goats - Farm - Not Available - animal sample - blood - Monitoring - EFSA specifications - Official sampling - Objective sampling	N_A	Unspecified	animal	17833	0	Brucella	0
				herd/flock	1118	0	Brucella	0
	Sheep and goats - Farm - Not Available - animal sample - blood - Monitoring - EFSA specifications - Official sampling - Suspect sampling	N_A	Unspecified	animal	1	0	Brucella	0

Table Campylobacter:CAMPYLOBACTER 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) - Artificial insemination station - Not Available - animal sample - Surveillance - Industry sampling - Objective sampling	N_A	Microbiological tests	animal	3	3	Campylobacter fetus subsp. fetus	3
	Cattle (bovine animals) - Farm - Not Available - animal sample - foetus/stillbirth - Monitoring - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	220	1	Campylobacter sputorum	1
	Cattle (bovine animals) - Farm - Not Available - animal sample - foetus/stillbirth - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1069	22	Campylobacter coli	1
							Campylobacter fetus subsp. fetus	9
							Campylobacter fetus subsp. venerealis	10
							Campylobacter jejuni	1
							Campylobacter, unspecified sp.	1
	Dogs - Unspecified - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	4	1	Campylobacter jejuni	1
	Gallus gallus (fowl) - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	154	5	Campylobacter jejuni	5
	Pigs - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	226	4	Campylobacter lari	2
							Campylobacter, unspecified sp.	2
	Pigs - Farm - Not Available - animal sample - foetus/stillbirth - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	226	2	Campylobacter, unspecified sp.	2
	Pigs - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	226	1	Campylobacter jejuni	1
	Sheep - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	1	Campylobacter, unspecified sp.	1
	Sheep - Farm - Not Available - animal sample - foetus/stillbirth - Monitoring - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	8	2	Campylobacter fetus subsp. fetus	2
	Sheep - Farm - Not Available - animal sample - foetus/stillbirth - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	132	132	Campylobacter coli	3
							Campylobacter fetus subsp. fetus	107
							Campylobacter jejuni	15
							Campylobacter lari	2
							Campylobacter, unspecified sp.	5
	Sheep - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	19	19	Campylobacter jejuni	11
							Campylobacter, unspecified sp.	8

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 - minced meat - intended to be eaten cooked - Retail - United Kingdom - food sample - Survey - Official sampling - Objective sampling	single (food/feed)	450	Gram	Commissioned research - structured cross-sectional survey during 2019. Funded by Food Standards Scotland. Sampling strategy designed to reflect recent distribution of buying habits of consumers	ISO 10272-1:2006 Campylobacter	1009	1	Campylobacter, unspecified sp.	1
	Meat from broilers (Gallus gallus) - carcase - chilled - Retail - United Kingdom - food sample - neck skin - Survey - national survey - Official sampling - Objective sampling	single (food/feed)	10	Gram	Survey of whole chicken carcass at retail - neck skin samples used but unit of interest is chicken carcass. Survey covered smaller retail store sector	ISO 10272-1:2006 Campylobacter	1069	592	Campylobacter coli Campylobacter jejuni	160 432

Table COXIELLA in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	Sampling Details	Method	Total units tested	Total units positive	N of clinical affected herds	Zoonoses	N of units positive
Not Available	Cattle (bovine animals) - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	animal	N/A	PCR	10	1		Coxiella burnetii	1

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
Not Available	Cattle (bovine animals) - calves (under 1 year) - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	45391	24	Echinococcus, unspecified sp.	24
	Cattle (bovine animals) - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	40312 06	1078	Echinococcus, unspecified sp.	1,078
	Goats - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	4537	23	Echinococcus, unspecified sp.	23
	Sheep - Slaughterhouse - Not Available - Not Available - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	25146 178	21134	Echinococcus, unspecified sp.	21,134
UNITED KINGDOM	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	433	0	Echinococcus multilocularis	0
	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	270	0	Echinococcus multilocularis	0
South Teesside	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
Durham CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
East Cumbria	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	8	0	Echinococcus multilocularis	0
East Riding of Yorkshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	7	0	Echinococcus multilocularis	0
North and North East Lincolnshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
York (NUTS level 3)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
North Yorkshire CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	45	0	Echinococcus multilocularis	0
Barnsley, Doncaster and Rotherham	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
Leeds	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
South and West Derbyshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
South Nottinghamshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
Leicestershire CC and Rutland	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	7	0	Echinococcus multilocularis	0
Lincolnshire (NUTS level 3)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	14	0	Echinococcus multilocularis	0
Herefordshire, County of	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
Worcestershire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	16	0	Echinococcus multilocularis	0
Warwickshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	6	0	Echinococcus multilocularis	0
Shropshire CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	15	0	Echinococcus multilocularis	0
Staffordshire CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
Cambridgeshire CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
Oxfordshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	15	0	Echinococcus multilocularis	0
Brighton and Hove	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
East Sussex CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	10	0	Echinococcus multilocularis	0

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
Bath and North East Somerset, North Somerset and South Gloucestershire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	2	0	Echinococcus multilocularis	0
Gloucestershire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	69	0	Echinococcus multilocularis	0
Swindon	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	2	0	Echinococcus multilocularis	0
Wiltshire CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	5	0	Echinococcus multilocularis	0
Dorset CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	7	0	Echinococcus multilocularis	0
Somerset (NUTS level 3)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
Cornwall and Isles of Scilly (NUTS level 3)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	8	0	Echinococcus multilocularis	0
Devon CC	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	11	0	Echinococcus multilocularis	0
Conwy and Denbighshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
South West Wales	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	28	0	Echinococcus multilocularis	0
Monmouthshire and Newport	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
Aberdeen City and Aberdeenshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	2	0	Echinococcus multilocularis	0
Caithness and Sutherland and Ross and Cromarty	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
Inverness and Nairn and Moray, Badenoch and Strathspey	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	20	0	Echinococcus multilocularis	0
Lochaber, Skye and Lochalsh, Arran and Cumbrae and Argyll and Bute	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	7	0	Echinococcus multilocularis	0
Warrington	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
Cheshire East	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	7	0	Echinococcus multilocularis	0
Cheshire West and Chester	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	8	0	Echinococcus multilocularis	0
East Merseyside (NUTS 2010-2013)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	5	0	Echinococcus multilocularis	0
Greater Manchester North West	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	10	0	Echinococcus multilocularis	0
Chorley and West Lancashire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
North and West Norfolk	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
Essex Haven Gateway	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
West Essex	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	4	0	Echinococcus multilocularis	0
West Surrey	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
Central Hampshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	2	0	Echinococcus multilocularis	0

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
North Hampshire	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	3	0	Echinococcus multilocularis	0
West Kent	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	1	0	Echinococcus multilocularis	0
Angus and Dundee City (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	2	0	Echinococcus multilocularis	0
Perth & Kinross and Stirling (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	16	0	Echinococcus multilocularis	0
North Lanarkshire (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - faeces - Surveillance - Official sampling - Objective sampling		PCR Cest1-Cest2 NAD1	animal	12	0	Echinococcus multilocularis	0
Belfast (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	67	0	Echinococcus multilocularis	0
Newry, Mourne and Down (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	20	0	Echinococcus multilocularis	0
Ards and North Down (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	68	0	Echinococcus multilocularis	0
Derry City and Strabane (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	3	0	Echinococcus multilocularis	0
Antrim and Newtownabbey (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	44	0	Echinococcus multilocularis	0
Lisburn and Castlereagh (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	25	0	Echinococcus multilocularis	0
Mid and East Antrim (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	23	0	Echinococcus multilocularis	0
Fermanagh and Omagh (NUTS 2016)	Foxes - wild - red fox - Others - Not Available - animal sample - intestinal content - Surveillance - Official sampling - Objective sampling		Sedimentation and Counting Technique	animal	20	0	Echinococcus multilocularis	0

Table Escherichia coli:ESCHERICHIA COLI in animal

Area of sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sample Sampling unit weight	Sample weight unit	Sampling Details	Method	total units tested	total units positive	Zoonoses	ANTH	VTX	AG	N units positive
Not Available	Alpacas - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	3	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Cats - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	1	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Cattle (bovine animals) - Farm - Not Available - animal sample - faeces - Surveillance - Official sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	3	1	VTEC O157	H7	Verotoxin production, toxin type unknown	eae positive	1
	Deer - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	13	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Dogs - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	2	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Ducks - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	1	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Goats - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	10	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Llamas - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	3	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Pigs - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	5	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Rats - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	1	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Sheep - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	22	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Sheep - Farm - Not Available - animal sample - faeces - Surveillance - Official sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	1	1	VTEC O157	H7	Verotoxin production, toxin type unknown	eae positive	1
	Solipeds, domestic - donkeys - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	5	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Solipeds, domestic - horses - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	4	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0
	Turtles - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	animal	Not Available	N_A	OIE method for E.coli O157 in animal faecal samples	1	0	Verocytotoxinogenic E. coli (VTEC)	Not Available	Not Available	Not Available	0

Table Escherichia coli:ESCHERICHIA COLI 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	ANTH	VTX	AG	N units positive
Not Available	Cheeses, made from unspecified milk or other animal milk - unspecified - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed)	25	Gram	N_A	In house real time PCR methods based on ISO/TS 13136:2012	616	1	VTEC O157	H-antigen unknown	Verotoxin production, toxin type unknown	Adhesion genes investigation not reported	0
									VTEC O181	H-antigen unknown	VT2a;VT1a	eae negative	1
	Meat from bovine animals - minced meat - intended to be eaten cooked - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed)	450	Gram	Commissioned research - structured cross-sectional survey during 2019. Funded by Food Standards Scotland. Sampling strategy designed to reflect recent distribution of buying habits of consumers	In house real time PCR methods based on ISO/TS 13136:2012	1006	28	VTEC non-O157	H-antigen unknown	Verotoxin production, toxin type unknown	Adhesion genes investigation not reported	28
									VTEC O157	H-antigen unknown	Verotoxin production, toxin type unknown	Adhesion genes investigation not reported	10

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 - Natural habitat - United Kingdom - animal sample - Surveillance - Official sampling - Convenient sampling	animal	Not Available	N_A	Reverse-transcription PCR (RT-PCR)	342	0	Flavivirus	0
	Solipeds, domestic - horses - Border Control Posts - United Kingdom - animal sample - blood - Monitoring - Official sampling - Objective sampling	animal	Not Available	N_A	ELISA, Competitive ELISA (C-ELISA)	3	0	Flavivirus	0
	Solipeds, domestic - horses - Farm - United Kingdom - animal sample - blood - Clinical investigations - Official sampling - Suspect sampling	animal	Not Available	N_A	ELISA, Competitive ELISA (C-ELISA)	4	0	Flavivirus	0
	Vulture - Border Control Posts - United Kingdom - animal sample - blood - Monitoring - Official sampling - Objective sampling	animal	Not Available	N_A	ELISA, Competitive ELISA (C-ELISA)	1	0	Flavivirus	0

Table Listeria: LISTERIA 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	Alpacas - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	0	Listeria	0
	Buffalos - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	1	Listeria spp., unspecified	1
	Cattle (bovine animals) - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	589	20	Listeria innocua	1
Listeria ivanovii							1	
Listeria monocytogenes							8	
Listeria spp., unspecified							10	
	Deer - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	0	Listeria	0
	Gallus gallus (fowl) - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	341	4	Listeria ivanovii	4
	Goats - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	53	6	Listeria monocytogenes	3
Listeria spp., unspecified							3	
	Pigs - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	2	0	Listeria	0
	Sheep - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	875	67	Listeria ivanovii	7
Listeria monocytogenes							31	
Listeria spp., unspecified							27	
Listeria welshimeri							2	

Table Listeria: LISTERIA 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	Total units tested	Total units positive	Method	Zoonoses	N of units tested	N of units positive
Not Available	Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	16	0	<= 100	Listeria monocytogenes, unspecified	16	0
								>100	Listeria monocytogenes, unspecified	16	0
	Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	16	0	detection	Listeria monocytogenes, unspecified	16	0
	Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	264	0	<= 100	Listeria monocytogenes, unspecified	264	0
								>100	Listeria monocytogenes, unspecified	264	0
	Cheeses made from cows' milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	264	0	detection	Listeria monocytogenes, unspecified	264	0
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	30	0	<= 100	Listeria monocytogenes, unspecified	30	0
								>100	Listeria monocytogenes, unspecified	30	0
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	30	0	detection	Listeria monocytogenes, unspecified	30	0
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	188	2	<= 100	Listeria monocytogenes, unspecified	188	1
								>100	Listeria monocytogenes, unspecified	188	0
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	188	2	detection	Listeria monocytogenes, unspecified	188	2
	Cheeses made from goats' milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	1	0	<= 100	Listeria monocytogenes, unspecified	1	0
								>100	Listeria monocytogenes, unspecified	1	0
	Cheeses made from goats' milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	1	0	detection	Listeria monocytogenes, unspecified	1	0
	Cheeses made from goats' milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	5	1	<= 100	Listeria monocytogenes, unspecified	5	0
								>100	Listeria monocytogenes, unspecified	5	1
	Cheeses made from goats' milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	5	1	detection	Listeria monocytogenes, unspecified	5	1
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	4	0	<= 100	Listeria monocytogenes, unspecified	4	0
								>100	Listeria monocytogenes, unspecified	4	0
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	4	0	detection	Listeria monocytogenes, unspecified	4	0
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	20	0	<= 100	Listeria monocytogenes, unspecified	20	0
								>100	Listeria monocytogenes, unspecified	20	0
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	20	0	detection	Listeria monocytogenes, unspecified	20	0
	Cheeses made from sheep's milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	1	0	<= 100	Listeria monocytogenes, unspecified	1	0
								>100	Listeria monocytogenes, unspecified	1	0
	Cheeses made from sheep's milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/fee d)	25	Gram	N_A	1	0	>100	Listeria monocytogenes, unspecified	1	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	Total units tested	Total units positive	Method	Zoonoses	N of units tested	N of units positive
Not Available	Cheeses made from sheep's milk - hard - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	1	0	detection	Listeria monocytogenes, unspecified	1	0
	Cheeses made from sheep's milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	14	0	<= 100	Listeria monocytogenes, unspecified	14	0
								>100	Listeria monocytogenes, unspecified	14	0
	Cheeses made from sheep's milk - hard - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	14	0	detection	Listeria monocytogenes, unspecified	14	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	2	0	<= 100	Listeria monocytogenes, unspecified	2	0
								>100	Listeria monocytogenes, unspecified	2	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	2	0	detection	Listeria monocytogenes, unspecified	2	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	69	0	<= 100	Listeria monocytogenes, unspecified	69	0
								>100	Listeria monocytogenes, unspecified	69	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	69	0	detection	Listeria monocytogenes, unspecified	69	0
	Fruits - pre-cut - frozen - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	341	3	<= 100	Listeria monocytogenes, unspecified	341	0
								>100	Listeria monocytogenes, unspecified	341	0
	Fruits - pre-cut - frozen - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	341	3	detection	Listeria monocytogenes, unspecified	341	3
	Juice - mixed juice - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	26	6	<= 100	Listeria monocytogenes, unspecified	26	0
								>100	Listeria monocytogenes, unspecified	26	0
	Juice - mixed juice - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	26	6	detection	Listeria monocytogenes, unspecified	26	6
	Vegetables - pre-cut - frozen vegetables - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	30	5	<= 100	Listeria monocytogenes, unspecified	30	1
								>100	Listeria monocytogenes, unspecified	30	0
	Vegetables - pre-cut - frozen vegetables - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feed d)	25	Gram	N_A	30	5	detection	Listeria monocytogenes, unspecified	30	5

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	Bats - wild - Natural habitat - United Kingdom - animal sample - brain - Surveillance - Official sampling - Selective sampling	N_A	Not Available	animal	488	4	European bat lyssavirus 1	3
							European bat lyssavirus 2	1
	Bats - zoo animal - Zoo - United Kingdom - animal sample - brain - Surveillance - Official sampling - Selective sampling	N_A	Not Available	animal	29	0	Lyssavirus	0
	Cats - pet animals - Veterinary clinics - United Kingdom - animal sample - brain - Clinical investigations - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Lyssavirus	0
	Dogs - pet animals - Official kennel - United Kingdom - animal sample - brain - Clinical investigations - Official sampling - Suspect sampling	N_A	Not Available	animal	2	0	Lyssavirus	0
	Dogs - pet animals - Veterinary clinics - United Kingdom - animal sample - brain - Clinical investigations - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Lyssavirus	0
	Rabbits - pet animals - Official kennel - United Kingdom - animal sample - brain - Clinical investigations - Official sampling - Suspect sampling	N_A	Not Available	animal	1	0	Lyssavirus	0

Table Mycobacterium:MYCOBACTERIUM 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	Alpacas - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	78	34	Mycobacterium	3
							Mycobacterium bovis	29
	Camels - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	1	0	Mycobacterium	0
	Cats - Veterinary clinics - Not Available - animal sample - Clinical investigations - Private sampling - Suspect sampling	N_A	Unspecified	animal	30	22	Mycobacterium	1
Mycobacterium bovis							13	
Mycobacterium microti							8	
	Deer - farmed - red deer - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	6	6	Mycobacterium bovis	5
	Deer - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	9	5	Mycobacterium caprae	1
							Mycobacterium avium	5
	Deer - wild - fallow deer - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	17	14	Mycobacterium avium	1
	Deer - wild - roe deer - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	2	1	Mycobacterium bovis	13
							Mycobacterium avium complex	1
	Deer - wild - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	1	1	Mycobacterium bovis	1
	Dogs - Veterinary clinics - Not Available - animal sample - Clinical investigations - Private sampling - Suspect sampling	N_A	Unspecified	animal	2	0	Mycobacterium	0
	Goats - Slaughterhouse - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	26	5	Mycobacterium bovis	5
	Llamas - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	11	2	Mycobacterium bovis	2
	Pigs - Slaughterhouse - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	194	30	Mycobacterium	4
							Mycobacterium avium	6
							Mycobacterium avium complex	1
							Mycobacterium bovis	16
							Mycobacterium microti	2
	Mycobacterium spp., unspecified	1						
	Reindeers - Unspecified - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	1	0	Mycobacterium	0
	Sheep - Slaughterhouse - Not Available - animal sample - Monitoring - active - Official sampling - Objective sampling	N_A	Unspecified	animal	5	1	Mycobacterium bovis	1

Table Salmonella:SALMONELLA in animal

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Cattle (bovine animals) - adult cattle over 2 years - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Dublin	1
	Cattle (bovine animals) - calves (under 1 year) - Farm - Not Available - animal sample - faeces - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	3	3	Salmonella Dublin Salmonella Typhimurium	2 1
	Cattle (bovine animals) - calves (under 1 year) - Farm - Not Available - animal sample - fetus/stillbirth - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	3	3	Salmonella Dublin Salmonella Nima	2 1
	Cattle (bovine animals) - calves (under 1 year) - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	4	4	Salmonella Dublin	4
	Cattle (bovine animals) - Farm - Not Available - animal sample - faeces - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	20	20	Salmonella Agama Salmonella Dublin Salmonella Mbandaka Salmonella Montevideo Salmonella Typhimurium	1 13 3 1 2
	Cattle (bovine animals) - Farm - Not Available - animal sample - fetus/stillbirth - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	14	14	Salmonella Dublin Salmonella Mbandaka Salmonella Montevideo	12 1 1
	Cattle (bovine animals) - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	6	6	Salmonella Dublin Salmonella Mannheim Salmonella Typhimurium	4 1 1
	Cattle (bovine animals) - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	466	466	Salmonella 4,12:i:- Salmonella 4,5,12:-:1,2 Salmonella 4,5,12:e,h:- Salmonella 4,5,12:i:- Salmonella 6,7:-e,n,z15 Salmonella 6,7:r:- Salmonella 6,7:z10:- Salmonella Agama Salmonella Anatum Salmonella Bardo Salmonella Berta Salmonella Dublin Salmonella enterica subsp. enterica rough Salmonella Enterica, unspecified Salmonella Enteritidis Salmonella I 6,7:-:- Salmonella IIIb 61:-:1,5 Salmonella IIIb 61:-:1,5,7 Salmonella IIIb 61:k:1,5,7 Salmonella Infantis Salmonella Kingston Salmonella Kottbus Salmonella Lagos Salmonella Mbandaka Salmonella Montevideo Salmonella Newport Salmonella Nottingham Salmonella Oslo Salmonella Typhimurium Salmonella Uganda	7 1 2 7 1 1 2 1 2 1 1 261 1 1 1 1 1 2 2 3 1 78 18 6 3 4 54 1
	Cattle (bovine animals) - young cattle (1-2 years) - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Montevideo	1

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Deer - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	2	2	Salmonella 4,5,12:i:-	1
									Salmonella Montevideo	1
									Salmonella infantis	1
									Salmonella Schwarzengrund	1
									Salmonella 4,12:z:-	6
									Salmonella Anatum	1
									Salmonella Bovismorbificans	8
									Salmonella Derby	1
									Salmonella enterica subsp. enterica rough	2
									Salmonella Give	64
									Salmonella Hadar	39
									Salmonella Indiana	93
									Salmonella Kottbus	11
									Salmonella Lexington	2
									Salmonella Monschau	4
Salmonella Orion	51									
Salmonella Oslo	9									
Salmonella Typhimurium	2									
Gallus gallus (fowl) - breeding flocks, unspecified - adult - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	1246	Y	N_A	Not Available	1246	13	Salmonella 13,23:i:-	7	
								Salmonella 6,7:-:e,n,z15	1	
								Salmonella Kottbus	1	
								Salmonella Nottingham	1	
								Salmonella Ohio	2	
								Salmonella Other serovars	1	
								Salmonella Agama	1	
Salmonella Brandenburg	2									
Gallus gallus (fowl) - broilers - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Industry sampling - Census	herd/flock	5568	N	N_A	Not Available	5515	20	Salmonella Idikan	1	
								Salmonella Mbandaka	3	
								Salmonella Montevideo	1	
								Salmonella Muenster	9	
								Salmonella Newport	1	
								Salmonella spp., unspecified	2	
								Salmonella Agama	1	
Salmonella Brandenburg	2									
Gallus gallus (fowl) - broilers - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official and industry sampling - Census	herd/flock	5568	Y	N_A	Not Available	5568	20	Salmonella Idikan	1	
								Salmonella Mbandaka	3	
								Salmonella Montevideo	1	
								Salmonella Muenster	9	
								Salmonella Newport	1	
								Salmonella spp., unspecified	2	
								Salmonella Agama	1	
Salmonella Brandenburg	2									
Gallus gallus (fowl) - broilers - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official sampling - Objective sampling	herd/flock	5568	N	N_A	Not Available	53	0	Salmonella	0	
Gallus gallus (fowl) - broilers - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Industry sampling - Census	herd/flock	48849	N	N_A	Not Available	48724	1450	Salmonella 13,23:-:l,w:-	2	
								Salmonella 13,23:i:-	413	
								Salmonella 4,12:i:-	3	
								Salmonella 4,5,12:i:-	1	
								Salmonella 6,7:z10:-	3	
								Salmonella Agama	3	
								Salmonella Agona	29	
								Salmonella Anatum	3	
								Salmonella Coeln	1	
								Salmonella Derby	28	
								Salmonella Eastbourne	3	
								Salmonella Enteritidis	2	
								Salmonella Havana	1	
								Salmonella I 4,12:d:-	7	

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Gallus gallus (fowl) - broilers - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Industry sampling - Census	herd/flock	48849	N	N/A	Not Available	48724	1450	Salmonella Idikan	15
									Salmonella Indiana	7
									Salmonella Kedougou	330
									Salmonella Kentucky	1
									Salmonella Kingston	1
									Salmonella Livingstone	6
									Salmonella London	1
									Salmonella Mbandaka	329
									Salmonella Montevideo	141
									Salmonella Muenchen	1
									Salmonella Newport	2
									Salmonella Nottingham	1
									Salmonella Offa	1
									Salmonella Ohio	69
									Salmonella Orion	3
									Salmonella Oslo	2
									Salmonella Other serovars	16
									Salmonella Senftenberg	28
									Salmonella spp., unspecified	3
									Not Available	Gallus gallus (fowl) - broilers - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census
Salmonella 13,23:i:-	418									
Salmonella 4,12:i:-	3									
Salmonella 4,5,12:i:-	2									
Salmonella 6,7:z10:-	3									
Salmonella Agama	3									
Salmonella Agona	29									
Salmonella Anatum	3									
Salmonella Coeln	1									
Salmonella Derby	29									
Salmonella Eastbourne	3									
Salmonella Enteritidis	2									
Salmonella Havana	1									
Salmonella I 4,12:d:-	7									
Salmonella Idikan	15									
Salmonella IIIb 61:-:1,5,7	1									
Salmonella Indiana	7									
Salmonella Kedougou	331									
Salmonella Kentucky	1									
Salmonella Kingston	1									
Salmonella Livingstone	7									
Salmonella London	1									
Salmonella Mbandaka	334									
Salmonella Montevideo	144									
Salmonella Muenchen	1									
Salmonella Newport	2									
Salmonella Nottingham	1									
Salmonella Offa	1									
Salmonella Ohio	69									
Salmonella Orion	3									
Salmonella Oslo	2									
Salmonella Other serovars	16									
Salmonella Senftenberg	32									
Salmonella spp., unspecified	3									

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Gallus gallus (fowl) - broilers - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	48849	Y	N/A	Not Available	48849	1472	Salmonella Stanley	1
									Salmonella Typhimurium	10
Not Available	Gallus gallus (fowl) - broilers - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official sampling - Objective sampling	herd/flock	48849	N	N/A	Not Available	125	22	Salmonella 13,23:i:-	5
									Salmonella 4,5,12:i:-	1
									Salmonella Derby	1
									Salmonella IIIb 61:-:1,5,7	1
									Salmonella Kedougou	1
									Salmonella Livingstone	1
									Salmonella Mbandaka	5
									Salmonella Montevideo	3
									Salmonella Senftenberg	4
									Salmonella 13,23:-:	1
									Salmonella 13,23:i:-	436
									Salmonella 4,12:i:-	4
									Salmonella 4,5,12:b:-	1
									Salmonella 4,5,12:i:-	4
									Salmonella 6,7:-:e,n,z15	5
Salmonella 6,7:z10:-	3									
Salmonella Africana	1									
Salmonella Agama	6									
Salmonella Agona	31									
Salmonella Anatum	5									
Salmonella Coeln	1									
Salmonella Derby	44									
Salmonella Dublin	1									
Salmonella Eastbourne	3									
Salmonella enterica subsp. enterica rough	1									
Salmonella Enterica, unspecified	3									
Salmonella Enteritidis	48									
Salmonella Fresno	1									
Salmonella Give	4									
Salmonella Havana	1									
Salmonella I 4,12:d:-	5									
Salmonella I 6,7:-:	1									
Salmonella Idikan	17									
Salmonella IIIb 61:-:1,5,7	1									
Salmonella Indiana	7									
Salmonella Kedougou	357									
Salmonella Kentucky	1									
Salmonella Kingston	1									
Salmonella Kottbus	4									
Salmonella Livingstone	10									
Salmonella London	2									
Salmonella Mbandaka	367									
Salmonella Montevideo	169									
Salmonella Muenchen	1									
Salmonella Newport	5									
Salmonella Nima	1									
Salmonella Nottingham	9									
Salmonella Offa	1									
Salmonella Ohio	75									
Salmonella Orion	18									
Salmonella Oslo	2									
Salmonella Reading	1									
Salmonella Rissen	1									
Gallus gallus (fowl) - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock	N	N/A	Not Available	1749	1749	Salmonella 13,23:-:	1		
							Salmonella 13,23:i:-	436		
							Salmonella 4,12:i:-	4		
							Salmonella 4,5,12:b:-	1		
							Salmonella 4,5,12:i:-	4		
							Salmonella 6,7:-:e,n,z15	5		
							Salmonella 6,7:z10:-	3		
							Salmonella Africana	1		
							Salmonella Agama	6		
							Salmonella Agona	31		
							Salmonella Anatum	5		
							Salmonella Coeln	1		
							Salmonella Derby	44		
							Salmonella Dublin	1		
							Salmonella Eastbourne	3		
Salmonella enterica subsp. enterica rough	1									
Salmonella Enterica, unspecified	3									
Salmonella Enteritidis	48									
Salmonella Fresno	1									
Salmonella Give	4									
Salmonella Havana	1									
Salmonella I 4,12:d:-	5									
Salmonella I 6,7:-:	1									
Salmonella Idikan	17									
Salmonella IIIb 61:-:1,5,7	1									
Salmonella Indiana	7									
Salmonella Kedougou	357									
Salmonella Kentucky	1									
Salmonella Kingston	1									
Salmonella Kottbus	4									
Salmonella Livingstone	10									
Salmonella London	2									
Salmonella Mbandaka	367									
Salmonella Montevideo	169									
Salmonella Muenchen	1									
Salmonella Newport	5									
Salmonella Nima	1									
Salmonella Nottingham	9									
Salmonella Offa	1									
Salmonella Ohio	75									
Salmonella Orion	18									
Salmonella Oslo	2									
Salmonella Reading	1									
Salmonella Rissen	1									

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Gallus gallus (fowl) - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	1749	1749	Salmonella Senftenberg	72
									Salmonella Stanley	1
									Salmonella Tennessee	2
									Salmonella Typhimurium	14
	Gallus gallus (fowl) - laying hens - adult - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	herd/flock		N_A	N_A	Not Available	1	1	Salmonella Nima	1
	Gallus gallus (fowl) - laying hens - adult - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official and industry sampling - Census	herd/flock	600	Y	N_A	Not Available	600	2	Salmonella Livingstone	1
									Salmonella Oslo	1
	Gallus gallus (fowl) - laying hens - adult - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	4014	Y	N_A	Not Available	4014	48	Salmonella 1,13,23:i:-	1
									Salmonella 1,4,5,12:i:-	1
									Salmonella 4,5,12:b:-	1
									Salmonella Africana	1
									Salmonella Agama	4
									Salmonella Anatum	2
									Salmonella Derby	1
									Salmonella Dublin	1
									Salmonella Enteritidis	14
									Salmonella Idikan	1
									Salmonella Kedougou	4
									Salmonella Kottbus	1
Salmonella London									1	
Salmonella Mbandaka									1	
Salmonella Montevideo									2	
Salmonella Newport									3	
Salmonella Nima									1	
Salmonella Nottingham									2	
Salmonella Reading									1	
Salmonella Rissen									1	
Salmonella Senftenberg	1									
Salmonella Tennessee	2									
Salmonella Typhimurium	1									
Gallus gallus (fowl) - parent breeding flocks for broiler production line - hatching eggs - Hatchery - Not Available - environmental sample - Clinical investigations - Industry sampling - Suspect sampling	herd/flock		N_A	N_A	Not Available	6	6	Salmonella Cerro	1	
								Salmonella Infantis	1	
								Salmonella Muenster	3	
								Salmonella spp., unspecified	1	
Gallus gallus (fowl) - parent breeding flocks for egg production line - adult - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official and industry sampling - Census	herd/flock	1	Y	N_A	Not Available	1	0	Salmonella	0	
Goats - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	1	1	Salmonella Enterica, unspecified	1	
Partridges - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	5	5	Salmonella 4,12:i:-	1	
								Salmonella Senftenberg	3	
								Salmonella Soerenga	1	
Pheasants - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	8	8	Salmonella Orion	2	
								Salmonella Senftenberg	5	
								Salmonella Typhimurium	1	
Pigeons - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	11	11	Salmonella Typhimurium	11	
Pigeons - Unspecified - Not Available - animal sample - organ/tissue - Clinical investigations - Private sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Typhimurium	1	
Pigs - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	167	167	Salmonella 3,10:-:1,6	1	
								Salmonella 3,10:l,v:-	1	
								Salmonella 4,12:i:-	47	
								Salmonella 4,5,12:i:-	30	
								Salmonella Bovismorbificans	12	
								Salmonella Derby	6	
								Salmonella Enteritidis	1	
								Salmonella Kedougou	8	

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive							
Not Available	Pigs - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	167	167	Salmonella Livingstone	1							
									Salmonella London	1							
									Salmonella Newport	6							
									Salmonella Panama	1							
									Salmonella Reading	1							
									Salmonella Typhimurium	50							
	Pigs - unspecified - Farm - Not Available - animal sample - faeces - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1							
									Salmonella London	1							
	Pigs - unspecified - Farm - Not Available - animal sample - foetus/stillbirth - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	10	10	Salmonella Typhimurium	5							
									Salmonella Typhimurium, monophasic	5							
	Quails - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	5	5	Salmonella Bredeney	3							
									Salmonella Enteritidis	1							
									Salmonella Senftenberg	1							
	Sheep - animals over 1 year - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	3	3	Salmonella Dublin	2							
									Salmonella Typhimurium	1							
	Sheep - animals under 1 year (lambs) - Farm - Not Available - animal sample - foetus/stillbirth - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Agona	1							
	Sheep - animals under 1 year (lambs) - Farm - Not Available - animal sample - organ/tissue - Clinical investigations - Industry sampling - Suspect sampling	animal		N_A	N_A	Not Available	1	1	Salmonella Dublin	1							
	Sheep - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	98	98	Salmonella	3							
									Salmonella 4,12:i:-	1							
Salmonella 4,5,12:-:1,2									1								
Salmonella 4,5,12:e,h:-									2								
Salmonella 6,7:r:-									1								
Salmonella 6,7:z10:-									2								
Salmonella 61:-:1,5									10								
Salmonella Agama									4								
Salmonella Dublin									6								
Salmonella I 6,7:-:-									1								
Salmonella IIIb 61:-:1,5,7									35								
Salmonella IIIb 61:k:1,5,(7)									5								
Salmonella IIIb 61:k:1,5,7									9								
Salmonella Kingston									1								
Salmonella Mbandaka									1								
Salmonella Montevideo									16								
Salmonella Newport									1								
Salmonella Typhimurium									4								
Solipeds, domestic - horses - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified									herd/flock		N	N_A	Not Available	126	126	Salmonella 4,12:i:-	12
																Salmonella 4,5,12:i:-	6
	Salmonella 6,7:e,h:-	1															
	Salmonella Agama	1															
	Salmonella Bovismorbificans	19															
	Salmonella Coeln	2															
	Salmonella Dublin	1															
	Salmonella Enterica, unspecified	1															
	Salmonella Enteritidis	5															
	Salmonella Hessarek	1															
	Salmonella Kingston	5															
	Salmonella Mbandaka	3															
	Salmonella Newport	12															
	Salmonella Oslo	23															
	Salmonella Typhimurium	34															

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Turkeys - breeding flocks, unspecified - adult - Farm - United Kingdom - Not Available - Control and eradication programmes - Industry sampling - Census	herd/flock		N	N_A	Not Available	273	2	Salmonella 4,5,12:i:-	2
	Turkeys - breeding flocks, unspecified - adult - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	273	Y	N_A	Not Available	273	17	Salmonella 4,5,12:i:- Salmonella Senftenberg	2 15
	Turkeys - breeding flocks, unspecified - adult - Hatchery - United Kingdom - Not Available - Control and eradication programmes - Official sampling - Census	herd/flock		N	N_A	Not Available	227	15	Salmonella Senftenberg	15
	Turkeys - breeding flocks, unspecified - during rearing period - Farm - United Kingdom - Not Available - Control and eradication programmes - Industry sampling - Census	herd/flock		N	N_A	Not Available	273	3	Salmonella Derby	3
	Turkeys - Farm - United Kingdom - Not Available - Surveillance - Not applicable - Not specified	herd/flock		N	N_A	Not Available	267	267	Salmonella 13,23:i:- Salmonella 3,19:-:- Salmonella 4,5,12:i:- Salmonella Agona Salmonella Albany Salmonella Anatum Salmonella Coeln Salmonella Derby Salmonella Eastbourne Salmonella enterica subsp. enterica rough Salmonella Enterica, unspecified Salmonella Indiana Salmonella Kedougou Salmonella Kottbus Salmonella Mbandaka Salmonella Newport Salmonella Nottingham Salmonella Ohio Salmonella Orion Salmonella Senftenberg	3 1 2 9 2 4 1 132 1 1 1 44 4 5 5 1 1 48
	Turkeys - fattening flocks - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Industry sampling - Census	herd/flock	100	N	N_A	Not Available	96	2	Salmonella Derby	2
	Turkeys - fattening flocks - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official and industry sampling - Census	herd/flock	100	Y	N_A	Not Available	100	2	Salmonella Derby	2
	Turkeys - fattening flocks - before slaughter - Farm - Not Available - environmental sample - boot swabs - Control and eradication programmes - Official sampling - Objective sampling	herd/flock	100	N	N_A	Not Available	4	0	Salmonella	0
	Turkeys - fattening flocks - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Industry sampling - Census	herd/flock	2325	N	N_A	Not Available	2281	147	Salmonella 1,13,23:i:- Salmonella Agona Salmonella Albany Salmonella Anatum Salmonella Derby Salmonella Eastbourne Salmonella Indiana Salmonella Kedougou Salmonella Kottbus Salmonella Newport Salmonella Nottingham Salmonella Senftenberg Salmonella spp., unspecified	3 5 1 2 103 1 1 27 2 1 1 2 2 1
	Turkeys - fattening flocks - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	2325	Y	N_A	Not Available	2325	173	Salmonella 1,13,23:i:- Salmonella Agona Salmonella Albany Salmonella Anatum Salmonella Derby Salmonella Eastbourne Salmonella Indiana Salmonella Kedougou Salmonella Kottbus	3 5 1 4 105 1 1 28 4

Area of Sampling	Matrix - Sampling stage - Sampling origin - Sample type - Sampling context - Sampler - Sampling strategy	Sampling unit	N of flocks under control programme	Target verification	Sampling Details	Method	Total units tested	Total units positive	Zoonoses	N of units positive
Not Available	Turkeys - fattening flocks - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official and industry sampling - Census	herd/flock	2325	Y	N.A	Not Available	2325	173	Salmonella Newport	1
									Salmonella Nottingham	1
									Salmonella Senftenberg	21
									Salmonella spp., unspecified	1
	Turkeys - fattening flocks - before slaughter - Farm - United Kingdom - Not Available - Control and eradication programmes - Official sampling - Objective sampling	herd/flock	2325	N	N.A	Not Available	44	26	Salmonella Anatum	2
									Salmonella Derby	2
									Salmonella Kedougou	1
									Salmonella Kottbus	2
									Salmonella Senftenberg	19

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	Cheeses made from cows' milk - fresh - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	1	0	Salmonella	0
	Cheeses made from cows' milk - fresh - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	2	0	Salmonella	0
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	30	9	Salmonella spp., unspecified	9
	Cheeses made from cows' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	188	0	Salmonella	0
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	4	0	Salmonella	0
	Cheeses made from goats' milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	20	0	Salmonella	0
	Cheeses made from sheep's milk - fresh - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579-1:2017 Salmonella	1	0	Salmonella	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Processing plant - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579:2002 Salmonella	2	0	Salmonella	0
	Cheeses made from sheep's milk - soft and semi-soft - made from raw or low heat-treated milk - Retail - Not Available - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	25	Gram	N_A	ISO 6579:2002 Salmonella	70	0	Salmonella	0
	Meat from bovine animals - fresh - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	2	2	Salmonella Dublin	1
	Meat from bovine animals - meat products - fresh raw sausages - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1
	Meat from bovine animals - meat products - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium	1
	Meat from bovine animals - minced meat - intended to be eaten cooked - Retail - United Kingdom - food sample - Survey - Official sampling - Objective sampling	single (food/feeder)	450	Gram	Commissioned research - structured cross-sectional survey during 2019. Funded by Food Standards Scotland. Sampling strategy designed to reflect recent distribution of buying habits of consumers	ISO 6579-1:2017 Salmonella	1009	2	Salmonella spp., unspecified	2
	Meat from bovine animals - minced meat - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Dublin	1
	Meat from bovine animals - minced meat - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	2	2	Salmonella Dublin	2
	Meat from broilers (Gallus gallus) - carcase - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1
	Meat from broilers (Gallus gallus) - fresh - frozen - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Infantis	1
	Meat from broilers (Gallus gallus) - fresh - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	1	1	Salmonella Montevideo	1
	Meat from broilers (Gallus gallus) - meat preparation - intended to be eaten cooked - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feeder)	25	Gram	N_A	Not Available	4	4	Salmonella Infantis	2
									Salmonella Java	1
									Salmonella Virchow	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 other animal species or not specified - meat products - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella Rissen	1
									Salmonella Typhimurium, monophasic	1
	Meat from pig - carcase - Slaughterhouse - Not Available - food sample - carcase swabs - Surveillance - based on Regulation 2073 - Official, based on Regulation 854/2004 - Objective sampling	single (food/feed)	400	Square centimetre	Data from FSA England and Wales	Not Available	3785	65	Salmonella spp., unspecified	65
	Meat from pig - carcase - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	400	Square centimetre	N_A	Not Available	8	8	Salmonella spp., unspecified	1
									Salmonella Typhimurium	1
									Salmonella Typhimurium, monophasic	6
	Meat from pig - fresh - Cutting plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Give	1
									Salmonella Typhimurium, monophasic	3
	Meat from pig - fresh - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	10	10	Salmonella spp., unspecified	1
									Salmonella Typhimurium, monophasic	9
	Meat from pig - fresh - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	12	12	Salmonella Typhimurium	3
									Salmonella Typhimurium, monophasic	9
	Meat from pig - meat preparation - intended to be eaten cooked - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	3	3	Salmonella Derby	2
									Salmonella Typhimurium, monophasic	1
	Meat from pig - meat products - fresh raw sausages - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	18	18	Salmonella Bovismorbificans	1
									Salmonella Brandenburg	1
									Salmonella Derby	3
									Salmonella Infantis	3
									Salmonella Rissen	2
									Salmonella spp., unspecified	1
	Meat from pig - meat products - fresh raw sausages - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	5	5	Salmonella Dublin	1
									Salmonella Typhimurium, monophasic	4
	Meat from pig - meat products - raw but intended to be eaten cooked - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella Typhimurium, monophasic	2
	Meat from pig - meat products - raw but intended to be eaten cooked - Slaughterhouse - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1
	Meat from pig - offal - kidney - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1
	Meat from pig - offal - liver - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1
	Meat from pig - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	3	3	Salmonella Derby	1
									Salmonella Typhimurium, monophasic	2
	Water - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Millilitre	N_A	Not Available	2	2	Salmonella Chester	2

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 - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Mbandaka	1							
									Salmonella Ohio	1							
									Salmonella Rissen	1							
									Salmonella Tennessee	1							
Compound feedingstuffs for fish - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella Illb 61:k:1,5,(7)	1								
								Salmonella Typhimurium	1								
Compound feedingstuffs for pigs - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella 13,23:i:-	1								
								Salmonella Derby	1								
								Salmonella Senftenberg	1								
								Salmonella Tennessee	1								
Compound feedingstuffs for poultry (non specified) - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	48	48	Salmonella 13,23:i:-	1								
								Salmonella 3,19:-:-	2								
								Salmonella Agona	1								
								Salmonella Havana	1								
								Salmonella I 4,12:d:-	1								
								Salmonella Kedougou	5								
								Salmonella Liverpool	2								
								Salmonella Livingstone	3								
								Salmonella Mbandaka	2								
								Salmonella Montevideo	1								
								Salmonella Newport	2								
								Salmonella Nottingham	3								
								Salmonella Ohio	6								
								Salmonella Oslo	1								
								Salmonella Putten	1								
								Salmonella Senftenberg	8								
								Salmonella Soerenga	1								
								Salmonella Solt	1								
								Salmonella Tennessee	5								
								Salmonella Typhimurium	1								
Compound feedingstuffs, not specified - process control - Feed mill - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	72	72	Salmonella Agama	1								
								Salmonella Alachua	1								
								Salmonella Amsterdam	1								
								Salmonella Brandenburg	1								
								Salmonella enterica	2								
								Salmonella Enterica, unspecified	4								
								Salmonella Infantis	2								
								Salmonella Kedougou	1								
								Salmonella Liverpool	2								
								Salmonella Mbandaka	7								
								Salmonella Rissen	2								
								Salmonella Roodepoort	1								
								Salmonella Schwarzengrund	1								
								Salmonella Senftenberg	34								
								Salmonella Tennessee	12								
								Compound feedingstuffs, not specified - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	17	17	Salmonella 13,23:i:-	3
																Salmonella 3,19:-:-	2
Salmonella Agona	1																
Salmonella Budapest	1																
Salmonella Idikan	1																
Salmonella Infantis	1																
Salmonella Kedougou	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	Compound feedingstuffs, not specified - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	17	17	Salmonella Mbandaka	1
									Salmonella Ohio	1
									Salmonella Oslo	1
									Salmonella Senftenberg	3
									Salmonella Stanleyville	1
	Feed material of cereal grain origin - barley derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella 6,7:-1,w	1
									Salmonella Tennessee	1
	Feed material of cereal grain origin - Feed mill - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	30	30	Salmonella enterica	1
									Salmonella Enteritidis	2
									Salmonella Mbandaka	17
									Salmonella Senftenberg	7
									Salmonella spp., unspecified	1
									Salmonella Szentes	2
	Feed material of cereal grain origin - maize derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	5	5	Salmonella Livingstone	4
									Salmonella Newport	1
	Feed material of cereal grain origin - other cereal grain derived - by-products of brewing and distilling - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Enteritidis	1
									Salmonella Livingstone	1
									Salmonella Orion	2
	Feed material of cereal grain origin - wheat derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	7	7	Salmonella Agona	3
									Salmonella Enteritidis	1
Salmonella Havana									1	
Salmonella Kingston									1	
Salmonella Ohio									1	
Feed material of land animal origin - animal fat - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Senftenberg	1	
Feed material of land animal origin - blood products - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella Rissen	1	
								Salmonella Typhimurium	1	
Feed material of land animal origin - blood products - Unspecified - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	3	3	Salmonella Enterica, unspecified	1	
								Salmonella Typhimurium, monophasic	2	
								Salmonella Bovismorbificans	1	
								Salmonella Derby	1	
Feed material of land animal origin - blood products - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Senftenberg	2	
								Salmonella 13,23:i:-	1	
								Salmonella Kedougou	1	
Feed material of land animal origin - bone meal - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Livingstone	1	
								Salmonella Montevideo	1	
								Salmonella Cerro	3	
Feed material of land animal origin - Feed mill - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	5	5	Salmonella Senftenberg	2	
								Salmonella Typhimurium	1	
Feed material of land animal origin - meat and bone meal - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium	1	
Feed material of land animal origin - meat meal - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella Livingstone	1	
								Salmonella Ohio	1	
Feed material of land animal origin - poultry offal meal - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	10	10	Salmonella Havana	1	
								Salmonella Livingstone	3	
								Salmonella Mbandaka	2	
								Salmonella Senftenberg	1	
								Salmonella Tennessee	2	
								Salmonella Uganda	1	
Feed material of land animal origin - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Livingstone	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	Feed material of land animal origin - protein meal - Feed mill - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	8	8	Salmonella Cerro	1							
									Salmonella Livingstone	3							
									Salmonella Mbandaka	1							
									Salmonella Senftenberg	3							
	Feed material of land animal origin - protein meal - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	12	12	Salmonella Livingstone	5							
									Salmonella Montevideo	1							
									Salmonella Senftenberg	6							
	Feed material of marine animal origin - fish meal - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Liverpool	1							
									Salmonella Montevideo	3							
	Feed material of oil seed or fruit origin - rape seed derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	87	87	Salmonella 13,23:i:-	1							
									Salmonella 3,19:-:-	1							
									Salmonella 4,12:i:-	1							
									Salmonella Bredeney	11							
									Salmonella Cubana	1							
									Salmonella Derby	1							
Salmonella Ealing									2								
Salmonella Enteritidis									1								
Salmonella Idikan									8								
Salmonella Kentucky									1								
Salmonella Montevideo									3								
Salmonella Rissen									6								
Salmonella Senftenberg									4								
Salmonella Tennessee									46								
Feed material of oil seed or fruit origin - soya (bean) derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified									batch (food/feed)	25	Gram	N_A	Not Available	30	30	Salmonella 13,23:i:-	1
	Salmonella 3,19:-:-	1															
	Salmonella Budapest	4															
	Salmonella Denver	1															
	Salmonella Havana	1															
	Salmonella I 4,12:d:-	1															
	Salmonella Kentucky	1															
	Salmonella Liverpool	3															
	Salmonella Livingstone	1															
	Salmonella Mbandaka	6															
	Salmonella Montevideo	2															
	Salmonella Senftenberg	6															
	Salmonella Typhimurium	2															
	Feed material of oil seed or fruit origin - sunflower seed derived - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	8	8								Salmonella Bredeney	1
																Salmonella Havana	1
Salmonella Liverpool									1								
Salmonella Mbandaka									1								
Salmonella Montevideo									2								
Salmonella Nottingham									1								
Salmonella Senftenberg	1																
Feed material of oil seed or fruit origin - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	4	4	Salmonella Ealing	1								
								Salmonella Rissen	2								
								Salmonella Senftenberg	1								
Other feed material - legume seeds and similar products - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Orion	1								
Other feed material - miscellaneous - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	3	3	Salmonella Jodhpur	1								
								Salmonella Kentucky	1								
								Salmonella Putten	1								
Other feed material - plants - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	2	2	Salmonella 4,12:i:-	1								
								Salmonella Thompson	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	Other feed material - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	21	21	Salmonella 13,23:i:-	1
									Salmonella Bovismorbificans	1
									Salmonella Corvallis	1
									Salmonella Durham	1
									Salmonella I 4,12:d:-	3
									Salmonella Kedougou	6
									Salmonella Liverpool	1
									Salmonella Mbandaka	1
									Salmonella Ohio	4
									Salmonella Senftenberg	2
Pet food - final product - Unspecified - United Kingdom - feed sample - Surveillance - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	16	16	Salmonella 13,23:i:-	2	
								Salmonella 4,12:i:-	2	
								Salmonella 61:-:1,5	5	
								Salmonella Derby	1	
								Salmonella Hadar	1	
								Salmonella Kottbus	1	
								Salmonella Livingstone	1	
								Salmonella Mbandaka	1	
								Salmonella Montevideo	1	
								Salmonella Ohio	1	
Pet food - process control - Processing plant - Not Available - Not Available - Unspecified - Industry sampling - Not specified	single (food/feed)	25	Gram	N_A	Not Available	1	1	Salmonella Typhimurium, monophasic	1	
Pet food - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	245	245	Salmonella 13,23:i:-	4	
								Salmonella 3,10:l,v:-	9	
								Salmonella 4,12:i:-	11	
								Salmonella 4,12:z:-	3	
								Salmonella 4,5,12:e,h:-	1	
								Salmonella 4,5,12:i:-	9	
								Salmonella 6,7:e,h:-	1	
								Salmonella 6,7:z10:-	1	
								Salmonella 6,8:e,h:-	4	
								Salmonella Agona	5	
								Salmonella Anatum	1	
								Salmonella Bardo	1	
								Salmonella Berta	1	
								Salmonella Bovismorbificans	12	
								Salmonella Brandenburg	5	
								Salmonella Bredeney	2	
								Salmonella Cerro	3	
								Salmonella Coeln	1	
								Salmonella Derby	14	
								Salmonella Dublin	6	
								Salmonella Eastbourne	1	
								Salmonella enterica subsp. enterica rough	1	
								Salmonella Enterica, unspecified	8	
								Salmonella Enteritidis	3	
								Salmonella Give	7	
								Salmonella Goldcoast	1	
								Salmonella Hadar	3	
								Salmonella I 6,7:-:-	1	
Salmonella Idikan	2									
Salmonella IIIb 61:-:1,5	4									
Salmonella IIIb 61:-:1,5,7	5									
Salmonella Indiana	31									

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	Pet food - Unspecified - United Kingdom - feed sample - Unspecified - Not applicable - Not specified	batch (food/feed)	25	Gram	N_A	Not Available	245	245	Salmonella infantis	1
									Salmonella Kedougou	4
									Salmonella Kottbus	6
									Salmonella Lagos	1
									Salmonella Lexington	1
									Salmonella Livingstone	4
									Salmonella London	3
									Salmonella Mbandaka	14
									Salmonella Montevideo	9
									Salmonella Newport	6
									Salmonella Ohio	1
									Salmonella Oslo	1
									Salmonella Panama	3
									Salmonella Reading	4
									Salmonella Rissen	4
									Salmonella Schwarzengrund	2
									Salmonella Senftenberg	1
									Salmonella Stanley	5
									Salmonella Tennessee	1
									Salmonella Typhimurium	11
									Salmonella Uganda	1
									Salmonella Virginia	1

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	Alpacas - farmed - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	3	3	Toxoplasma	3
	Cattle (bovine animals) - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	26	3	Toxoplasma gondii	3
	Dogs - Veterinary clinics - Not Available - animal sample - blood - Unspecified - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	4	3	Toxoplasma gondii	3
	Goats - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	33	2	Toxoplasma gondii	2
	Goats - Farm - Not Available - animal sample - foetus/stillbirth - Surveillance - Industry sampling - Suspect sampling	N_A	Immunofluorescence assay tests (IFA)	animal	33	1	Toxoplasma gondii	1
	Goats - Farm - Not Available - animal sample - organ/tissue - Monitoring - Industry sampling - Suspect sampling	N_A	PCR	animal	33	0	Toxoplasma	0
	Goats - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	PCR	animal	33	2	Toxoplasma gondii	2
	Sheep - Farm - Not Available - animal sample - blood - Monitoring - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	1081	4	Toxoplasma gondii	4
	Sheep - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Not specified	N_A	Latex agglutination test (LAT)	animal	503	267	Toxoplasma gondii	267
	Sheep - Farm - Not Available - animal sample - blood - Surveillance - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	1081	22	Toxoplasma gondii	22
	Sheep - Farm - Not Available - animal sample - foetus/stillbirth - Surveillance - Industry sampling - Suspect sampling	N_A	Immunofluorescence assay tests (IFA)	animal	1081	65	Toxoplasma gondii	65
	Sheep - Farm - Not Available - animal sample - organ/tissue - Monitoring - Industry sampling - Suspect sampling	N_A	PCR	animal	1081	0	Toxoplasma	0
	Sheep - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	PCR	animal	1081	49	Toxoplasma gondii	49
	Solipeds, domestic - horses - Farm - Not Available - animal sample - blood - Monitoring - Industry sampling - Suspect sampling	N_A	Latex agglutination test (LAT)	animal	1	0	Toxoplasma	0

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 - wild - Game handling establishment - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Objective sampling	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	289	0	Trichinella	0
	Pigs - breeding animals - not raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	11207	0	Trichinella	0
	Pigs - breeding animals - not raised under controlled housing conditions - sows and boars - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	46483 1	0	Trichinella	0
	Pigs - breeding animals - raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	4993	0	Trichinella	0
	Pigs - fattening pigs - not raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	44182 7	0	Trichinella	0
	Pigs - fattening pigs - raised under controlled housing conditions - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	63764 91	0	Trichinella	0
	Solipeds, domestic - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	2164	0	Trichinella	0
	Wild boars - farmed - Slaughterhouse - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	721	0	Trichinella	0
	Wild boars - wild - Game handling establishment - Not Available - animal sample - organ/tissue - Surveillance - Official sampling - Census	Data from FSA England, Wales, FSA NI, FSS	Not Available	animal	1022	0	Trichinella	0

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	Alpacas - farmed - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	17	1	Yersinia, unspecified sp.	1
	Cattle (bovine animals) - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1385	105	Yersinia enterocolitica	55
							Yersinia pseudotuberculosis	36
							Yersinia, unspecified sp.	14
	Cattle (bovine animals) - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	8	8	Yersinia enterocolitica	1
							Yersinia frederiksenii	1
							Yersinia pseudotuberculosis	6
	Deer - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	3	2	Yersinia enterocolitica	2
	Dogs - pet animals - Unspecified - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	7	7	Yersinia enterocolitica	4
							Yersinia pseudotuberculosis	3
	Dogs - pet animals - Unspecified - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	1	Yersinia enterocolitica	1
	Goats - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	0	Yersinia	0
	Hares - Natural habitat - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	5	4	Yersinia enterocolitica	1
							Yersinia pseudotuberculosis	2
							Yersinia, unspecified sp.	1
	Pigs - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	15	2	Yersinia enterocolitica	2
	Pigs - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	15	2	Yersinia enterocolitica	1
							Yersinia pseudotuberculosis	1
	Sheep - Farm - Not Available - animal sample - faeces - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	12	12	Yersinia enterocolitica	8
							Yersinia, unspecified sp.	4
	Sheep - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	10	10	Yersinia enterocolitica	2
							Yersinia pseudotuberculosis	8
	Solipeds, domestic - horses - Farm - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	17	3	Yersinia enterocolitica	2
							Yersinia pseudotuberculosis	1
	Starlings - Zoo - Not Available - animal sample - organ/tissue - Surveillance - Industry sampling - Suspect sampling	N_A	Microbiological tests	animal	1	1	Yersinia, unspecified sp.	1

FOODBORNE OUTBREAKS TABLES

Foodborne Outbreaks: summarized data

when numbers referring to cases, hospitalized people and deaths are reported as unknown, they will be not included in the sum calculation

Causative agent	Food vehicle	Outbreak strength				Weak			
		Strong		Weak		Strong		Weak	
		N outbreaks	N human cases	N hospitalized	N deaths	N outbreaks	N human cases	N hospitalized	N deaths
Campylobacter, unspecified sp.	Broiler meat (Gallus gallus) and products thereof	1	15	0	0	1	2	0	0
	Unknown					1	22	0	0
Clostridium perfringens	Sheep meat and products thereof	1	21	0	0				
	Crustaceans, shellfish, molluscs and products thereof					1	8	0	0
	Mixed food	2	30	0	0	1	36	0	0
	Meat and meat products	1	35	0	0	1	11	0	0
Listeria monocytogenes	Bovine meat and products thereof	1	3	3	2				
	Broiler meat (Gallus gallus) and products thereof	1	9	9	7				
	Unknown					1	5	5	3
Norovirus	Eggs and egg products	1	30	1	0				
	Crustaceans, shellfish, molluscs and products thereof	1	58	0	0				
	Mixed food	1	20	0	0	3	63	1	0
	Buffet meals					1	19	0	0
	Unknown					9	286	2	0
Okadaic acid	Crustaceans, shellfish, molluscs and products thereof	1	13	0	0				
Salmonella Agona	Unknown					2	34	3	0
Salmonella Bredeney	Pig meat and products thereof	1	16	0	0				
Salmonella Enterica, unspecified	Unknown					1	83	8	1
Salmonella Enteritidis	Eggs and egg products	4	88	13	1	1	22	0	0
	Mixed food					1	5	2	0
	Unknown					1	40	0	0
Salmonella Indiana	Broiler meat (Gallus gallus) and products thereof	1	28	0	0				
Salmonella Mikawasima	Unknown					1	152	11	0
Salmonella Typhimurium	Sheep meat and products thereof	1	68	0	0				
	Cereal products including rice and seeds/pulses (nuts, almonds)					1	13	0	0
Unknown	Pig meat and products thereof					1	4	0	0
	Mixed food					1	4	0	0
	Unknown					4	132	0	0
VTEC O125	Unknown					1	3	0	0
VTEC O157	Milk	1	21	9	1				
	Bovine meat and products thereof	1	18	6	0				
	Mixed food					1	16	5	0
	Unknown					2	7	6	0

Strong Foodborne Outbreaks: detailed data

Causative agent	H	AG	VT	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
Campylobacter, unspecified sp.	unk	Not Available	Not Available	Not Available	2019/80	General	Broiler meat (Gallus gallus) and products thereof	Chicken liver pate	Descriptive epidemiological evidence;Analytical epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Inadequate heat treatment;Cross-contamination	5 human cases laboratory confirmed	1	15	0	0
Clostridium perfringens	unk	Not Available	Not Available	Not Available	2019/24	General	Meat and meat products	Gravy	Descriptive epidemiological evidence;Analytical epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse;Inadequate heat treatment;Cross-contamination	4 human cases laboratory confirmed.	1	35	0	0
					2019/69	General	Mixed food	BEEF, VEGETABLE CHILLI WITH RICE	Descriptive epidemiological evidence;Analytical epidemiological evidence	Others	Not Available	Unknown	Storage time/temperature abuse;Inadequate heat treatment	3 human cases laboratory confirmed. TOXIN PCR DETECTED IN 3/3 SAMPLES, ELISA DETECTED IN 2/3 SAMPLES	1	22	0	0
					2019/71	General	Sheep meat and products thereof	ROAST LAMB, GRAVY	Descriptive epidemiological evidence;Analytical epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse;Inadequate heat treatment	6 human cases laboratory confirmed. FALP CLP.136	1	21	0	0
					2019/73	General	Mixed food	BEEF, PORK, CARVERY VEGETABLES	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse;Inadequate heat treatment	3 human cases laboratory confirmed.	1	8	0	0
Listeria monocytogenes	unk	Not Available	Not Available	Not Available	2019/23	General	Broiler meat (Gallus gallus) and products thereof	CHICKEN MAYO SANDWICHES	Product-tracing investigations ;Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Hospital or medical care facility	Not Available	Unknown	Cross-contamination	9 human cases laboratory confirmed. LINKED BY WHOLE GENOME SEQUENCING CC8 ST8 4.6.34.265.297.308.%	1	9	9	7

Causative agent	H	AG	VT	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
Listeria monocytogenes	unk	Not Available	Not Available	Not Available	2019/52	General	Bovine meat and products thereof	POTTED BEEF	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Other contributory factor;Cross-contamination	3 human cases laboratory confirmed. LINKED BY WHOLE GENOME SEQUENCING MLST 1, CC1. 1.1.307.46 3.506.541. %	1	3	3	2
Norovirus	unk	Not Available	Not Available	Not Available	2019/3	General	Eggs and egg products	EGG MAYONNAISE SANDWICHES, MULTIPLE OTHER FOOD ITEMS ASSOCIATED WITH ILLNESS FOLLOWING UNIVARIATE ANALYSIS	Descriptive epidemiological evidence;Analytical epidemiological evidence	Others	Not Available	Unknown	Unknown	9 human cases laboratory confirmed. GENOTYPE 2	1	30	1	0
					2019/31	General	Mixed food	EGG MAYONNAISE AND CUCUMBER SANDWICH/WRAP; CHEESE AND ONION QUICHE; MINCE PIE	Descriptive epidemiological evidence;Analytical epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	6 human cases laboratory confirmed. GENOTYPE 2	1	20	0	0
					2019/64	General	Crustaceans, shellfish, molluscs and products thereof	OYSTERS	Product-tracing investigations ;Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	United Kingdom	Unprocessed contaminated ingredient	4 human cases laboratory confirmed.	1	58	0	0
Okadaic acid	unk	Not Available	Not Available	Not Available	2019/33	General	Crustaceans, shellfish, molluscs and products thereof	MUSSELS	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	4 human cases laboratory confirmed.	1	13	0	0
Salmonella Bredeney	unk	Not Available	Not Available	Not Available	2019-2-2	General	Pig meat and products thereof	Suspected Romanian sausage	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Unprocessed contaminated ingredient	16 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - SNP address 10.17.17.1 7.17.17.%	1	16	0	0

Causative agent	H	AG	VT	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 Enteritidis	unk	Not Available	Not Available	Not Available	2018/0002*	General	Eggs and egg products	GALLUS GALLUS SHELL EGGS	Product-tracing investigations ;Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment;Cross-contamination	55 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - 5-SNP DESIGNATION 1.2.3.18.21 80.2669.%	1	55	11	0
					2018/3547* 2018/3549* 2018/0001* 2018/3605* 2018-1-2	General	Eggs and egg products	GALLUS GALLUS SHELL EGGS	Product-tracing investigations ;Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	European Union	Unprocessed contaminated ingredient;Storage time/temperature abuse;Inadequate heat treatment;Cross-contamination	28 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - 5-SNP DESIGNATION 1.2.3.18.35 9.360.% AND 1.2.3.18.17 5.175.% (total cluster size 284)	1	28	0	0
					2019/45	General	Eggs and egg products	DUCK EGGS	Product-tracing investigations ;Descriptive environmental evidence;Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans	Multiple places of exposure in one country	Not Available	United Kingdom	Unprocessed contaminated ingredient;Inadequate heat treatment;Cross-contamination	2 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING	1	2	1	1
					N_A	General	Eggs and egg products	DUCK EGGS	Product-tracing investigations ;Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans;Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment;Cross-contamination	3 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - 5-SNP DESIGNATION 1.5.69.111.103.5993.%	1	3	1	0

Causative agent	H	AG	VT	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 Indiana	unk	Not Available	Not Available	Not Available	2019/78	General	Broiler meat (Gallus gallus) and products thereof	CHICKEN	Descriptive environmental evidence; Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans	Multiple places of exposure in one country	Not Available	United Kingdom	Infected food handler; Inadequate heat treatment; Cross-contamination	28 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING EBG 271, 5-SNP designation 1.1.1.2.3.3.%. Setting: retailers and one restaurant where contributory factors included infected food handlers	1	28	0	0
Salmonella Typhimurium	unk	Not Available	Not Available	Not Available	2017/56 * 2018-1-3	General	Sheep meat and products thereof	Lamb	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans; Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans; Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment; Cross-contamination	68 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - SNP address 1.43.67.99 2.2703.322 5.% (animal samples, environmental samples on farm and slaughterhouse)	1	68	0	0
VTEC O157	unk	eeae positive	VT2c;VT2a	Not Available	2019/72	General	Milk	MILK	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment	21 human cases laboratory confirmed. STX2A STX2C	1	21	9	1
					2019/82 * 2019-4-1	General	Bovine meat and products thereof	MINCED BEEF	Detection of causative agent in food vehicle or its component - Detection of indistinguishable causative agent in humans	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment; Cross-contamination	18 human cases laboratory confirmed. STX2A STX2C, SNP ADDRESS : 4.4.4.955.4 673.5005.5 165%	1	18	6	0

Weak Foodborne Outbreaks: detailed data

Causative agent	H	AG	VT	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
Campylobacter, unspecified sp.	unk	Not Available	Not Available	Not Available	2019/59	General	Unknown	No food identified	Descriptive epidemiological evidence	Others	Not Available	Unknown	Cross-contamination	6 human cases laboratory confirmed	1	22	0	0
					6898	General	Broiler meat (Gallus gallus) and products thereof	Chicken liver parfait	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Inadequate heat treatment	2 human cases laboratory confirmed.	1	2	0	0
Clostridium perfringens	unk	Not Available	Not Available	Not Available	2019/2	General	Meat and meat products	Gravy	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse	2 human cases laboratory confirmed. fALP GENOTYPE CLP.105	1	11	0	0
					2019/54	General	Crustaceans, shellfish, molluscs and products thereof	LOBSTER, MACARONI AND CHEESE	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse	2 human cases laboratory confirmed.	1	8	0	0
					2019/8	General	Mixed food	ROAST DINNER - BEEF, CHICKEN, LAMB OR PORK AND CAULIFLOWER WITH CHEESE SAUCE, ROAST POTATOES, YORKSHIRE PUDDING, CABBAGE, MASHED POTATOES, GRAVY	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse; Inadequate heat treatment	3 human cases laboratory confirmed.	1	36	0	0
Listeria monocytogenes	unk	Not Available	Not Available	Not Available	2019/55	General	Unknown	No identified food	Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Unknown	5 human cases laboratory confirmed. 3 FATALITIES (MISCARRIAGE + FOETAL DEATH). LINKED BY WHOLE GENOME SEQUENCING ST32 1.1.1.2.2.2.%	1	5	5	3
Norovirus	unk	Not Available	Not Available	Not Available	2019/1	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Other contributory factor; Infected food handler	1 human case laboratory confirmed.	1	14	0	0

Causative agent	H	AG	VT	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	human cases	hosp.	deaths
Norovirus	unk	Not Available	Not Available	Not Available	2019/14	General	Mixed food	MEXICAN - BURRITO-STYLE WRAPS WITH MIXTURE OF FILLINGS, SAUCES AND ACCOMPANIMENTS	Descriptive epidemiological evidence	Take-away or fast-food outlet	Not Available	Unknown	Other contributory factor; Infected food handler; Cross-contamination	8 human cases laboratory confirmed. Other contributory factor: poor personal hygiene	1	13	0	0
					2019/21	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Other contributory factor	4 human cases laboratory confirmed. GENOTYPE 2	1	22	0	0
					2019/25	General	Mixed food	PASTA, PIE, SALAD	Descriptive epidemiological evidence	Canteen or workplace catering	Not Available	Unknown	Other contributory factor; Infected food handler	1 human case laboratory confirmed. Setting university/college canteen. GENOTYPE 2	1	31	1	0
					2019/26	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	4 human cases laboratory confirmed. GENOTYPE 2	1	17	0	0
					2019/30	General	Mixed food	WIDE RANGE EGG FRIED RICE, VARIOUS STIR FRIED MEALS	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Other contributory factor; Infected food handler; Inadequate heat treatment; Cross-contamination	6 human cases laboratory confirmed. GENOTYPE 2	1	19	0	0
					2019/4	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	3 human cases laboratory confirmed. GENOTYPE 2	1	42	1	0
					2019/5	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	3 human cases laboratory confirmed.	1	15	0	0
					2019/56	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Infected food handler	1 human case laboratory confirmed.	1	13	0	0
					2019/65	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unprocessed contaminated ingredient; Infected food handler	1 human case laboratory confirmed.	1	70	1	0
					2019/7	General	Unknown	No identified food	Descriptive epidemiological evidence	School or kindergarten	Not Available	Unknown	Unknown	1 human case laboratory confirmed.	1	56	0	0

Causative agent	H	AG	VT	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	human cases	hosp.	deaths
Norovirus	unk	Not Available	Not Available	Not Available	2019/74	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	2 human cases laboratory confirmed.	1	37	0	0
					7044	General	Buffet meals	No specific food item identified	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Infected food handler	2 human cases laboratory confirmed.	1	19	0	0
Salmonella Agona	unk	Not Available	Not Available	Not Available	2019-2-3	General	Unknown	Suspect baby snack food	Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Unknown	27 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - SNP address 1.1.1.1.383.4 82.% and 1.1.1.1.269.3 15.%	1	27	3	0
				Salmonella Bovismorbificans	N_A	General	Unknown	Environmental contamination found, likely multiple vehicles of infection. Multiple pubs involved.	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans; Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown; Cross-contamination	7 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - SNP ADDRESS 1.1.1.11.12.13.%. Contributory factors: contamination of oven, floor, cleaning equipment, drain; also less than adequate cooking temperature in part of the oven.	1	7	0	0
Salmonella Enterica, unspecified	unk	Not Available	Not Available	Not Available	2019-3-4	General	Unknown	Food item served in Indian restaurants	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unprocessed contaminated ingredient	83 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - eBG32, SNP address 1.1.249.265.2 70.271.%	1	83	8	1

Causative agent	H	AG	VT	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 Enteritidis	unk	Not Available	Not Available	Not Available	2019/67	General	Mixed food	ROAST BEEF, HAM AND CHEESE MELT SANDWICH	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	5 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - 5-SNP DESIGNATION SNP 1.2.3.18.175.6315.%	1	5	2	0
					N_A	General	Eggs and egg products	GALLUS GALLUS SHELL EGGS	Detection of causative agent in food chain or its environment - Detection of indistinguishable causative agent in humans; Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	United Kingdom	Inadequate heat treatment; Cross-contamination	22 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - phylogenetic subcluster within the 1.2.3.18.180.180.% 5-SNP cluster	1	22	0	0
							Unknown	No identified food	Descriptive epidemiological evidence	Catering on aircraft or ship or train	Not Available	Unknown	Unknown	40 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - 5-SNP DESIGNATION 1.1.2.274.274.604.%	1	40	0	0
Salmonella Mikawasima	unk	Not Available	Not Available	Not Available	2019-4-4	General	Unknown	Suspect fruit/vegetable vehicle	Descriptive epidemiological evidence	Multiple places of exposure in more than one country	Not Available	Unknown	Unprocessed contaminated ingredient	152 human cases laboratory confirmed - LINKED BY WHOLE GENOME SEQUENCING - SNP address 1.1.6.25.331.336.%	1	152	11	0

Causative agent	H	AG	VT	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	unk	Not Available	Not Available	Not Available	2019/35	General	Cereal products including rice and seeds/pulses (nuts, almonds)	BOILED RICE suspected but potential cross contamination likely	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Other contributory factor	1 human case laboratory confirmed - SNP address 29.216.934.2 292.5021.610 8.8464. Contributory factors: poor handwashing facilities. BOILED RICE suspected food vehicle but cross contamination likely main contributory factor	1	13	0	0
Unknown	unk	Not Available	Not Available	Not Available	2019/15	General	Pig meat and products thereof	HOT PORK ROLLS	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Inadequate chilling	N_A	1	4	0	0
					2019/34	General	Mixed food	BOLOGNAISE PIZZA, SPINACH CANNELLONI	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse	Suspected norovirus	1	4	0	0
					2019/38	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Storage time/temperature abuse;Other contributory factor;Inadequate heat treatment;Inadequate chilling	SUSPECT BACILLUS CEREUS SPP. OR CLOSTRIDIUM PERFRINGENS	1	100	0	0
					2019/48	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	Suspected norovirus	1	3	0	0
					2019/68	General	Unknown	No identified food	Descriptive epidemiological evidence	Others	Not Available	Unknown	Other contributory factor;Inadequate heat treatment	N_A	1	15	0	0
					2019/76	General	Unknown	No identified food	Descriptive epidemiological evidence	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Not Available	Unknown	Unknown	SUSPECTED TOXIN-MEDIATED OR NO PATHOGEN	1	14	0	0
VTEC O125	unk	eae positive	VT2f	Not Available	2019-3-2	General	Unknown	No identified food	Unknown	Multiple places of exposure in one country	Not Available	Unknown	Unknown	3 human cases laboratory confirmed.	1	3	0	0
VTEC O157	unk	eae positive	VT1a	Not Available	2019/83 *2019-4-2	General	Mixed food	SALAD LEAF ITEMS IN PREPACKED SANDWICHES	Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Unprocessed contaminated ingredient	16 human cases laboratory confirmed.	1	16	5	0

Causative agent	H	AG	VT	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
VTEC O157	unk	eae positive	VT2a	Not Available	2019/81	General	Unknown	No identified food	Descriptive epidemiological evidence	Multiple places of exposure in one country	Not Available	Unknown	Unknown	5 human cases laboratory confirmed. STX2A	1	5	4	0
			VT2c;VT2a	Not Available	2019-3-1	General	Unknown	No identified food	Unknown	Multiple places of exposure in one country	Not Available	Unknown	Unknown	2 human cases laboratory confirmed. 5-SNP address designation 4.4.4.2508.47 24.5065.6026	1	2	2	0

ANTIMICROBIAL RESISTANCE TABLES FOR CAMPYLOBACTER

ANTIMICROBIAL RESISTANCE TABLES FOR SALMONELLA

Table Antimicrobial susceptibility testing of Salmonella 3,10:I,v:- in Meat from pig - carcass

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcass swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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	1	0	0
MIC														
<=0.015						1								
<=0.03									1					
<=0.25			1										1	
<=0.5				1				1						
0.5														1
<=1	1													
2							1							
<=4										1				
4		1												
<=8					1									
16											1			
>64												1		

Table Antimicrobial susceptibility testing of Salmonella 4,12:i:- in Meat from pig - carcase

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcase swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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	0	0	0	0	0	1	1	0	0
MIC														
<=0.03									1					
0.03						1								
<=0.25			1											1
<=0.5				1				1						
0.5													1	
<=1							1							
<=4										1				
<=8					1									
8		1												
>64	1											1		
>1024											1			

Table Antimicrobial susceptibility testing of Salmonella Bovismorbificans in Meat from pig - carcase

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcase swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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	1	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		
<=4										1				
4		1												
<=8					1									
8							1							
16											1			

Table Antimicrobial susceptibility testing of Salmonella Derby in Meat from pig - carcass

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcass swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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	1	0	0
MIC														
<=0.015						1								
<=0.03									2					
0.03						1								
<=0.25			2											1
<=0.5				2				2						
0.5													2	1
<=1	2						1							
<=2												1		
2							1							
<=4										2				
4		1												
<=8					2									
8		1												
32											2	1		

Table Antimicrobial susceptibility testing of Salmonella Dublin in Meat from pig - carcass

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcass swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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	1	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	
<=4										1				
4		1												
<=8					1								1	
8							1							

Table Antimicrobial susceptibility testing of Salmonella London in Meat from pig - carcase

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcase swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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				
4		1												
<=8					1									
64											1			

Table Antimicrobial susceptibility testing of Salmonella Panama in Meat from pig - carcass

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcass swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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													
<=2												1		
2							1							
<=4										1				
4		1												
<=8					1									
64											1			

Table Antimicrobial susceptibility testing of Salmonella Reading in Meat from pig - carcass

Sampling Stage: Slaughterhouse

Sampling Type: food sample - carcass swabs

Sampling Context: Monitoring

Sampler: HACCP and own check

Sampling Strategy: Objective sampling

Programme Code: AMR MON

Analytical Method:

Country of Origin: United Kingdom

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
<=0.5				1				1						
0.5														1
<=1	1						1							
<=2												1		
<=4										1				
4		1												
<=8					1						1			

ANTIMICROBIAL RESISTANCE TABLES FOR INDICATOR ESCHERICHIA COLI

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Pigs - fattening pigs

Sampling Stage: Slaughterhouse

Sampling Type: animal sample - caecum

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: AMR MON pn12

Analytical Method:

Country of Origin: United Kingdom

Sampling Details:

AM substance	Cefapime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin
	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
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	4	5	1	1	1	5	1	1	0	0	0	0
MIC												
<=0.015										5		
<=0.03											5	
<=0.064			4									
<=0.12							1					5
0.12	1											
0.25								3				
0.5	1											
1				1								
2			1					1				
4	3	1				2	2					2
8					2	1						3

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin		
Cefotaxime synergy test	Not Available	Not Available	Positive/Present	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	Not Available	Positive/Present	Negative/Absent	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	4	5	1	1	1	5	1	1	0	0	0	0
MIC												
16					1	1						
32		2										
64		1										

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Pigs - fattening pigs

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: United Kingdom

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	208	208	208	208	208	208	208	208	208	208	208	208	208	208	
N of resistant isolates	75	1	5	5	34	7	0	3	0	2	89	122	0	83	
MIC															
<=0.015						173									
<=0.03										207					
0.03							28								
0.064										1					
0.12							1								
<=0.25	203											185	92		
0.25							5								
<=0.5	203				149										
0.5													22	31	
<=1	6							195							
1			1					55				1	2		
<=2	22											81			
2	52	1		2				13	1						
<=4											201				
4	71	103	1										3		
>4	3														
<=8					170							68			
8	4	77	1						1	5		2			
>8	1			1											
16	5		4									39			
32					14	1			11		8				

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	208	208	208	208	208	208	208	208	208	208	208	208	208	208
N of resistant isolates	75	1	5	5	34	7	0	3	0	2	89	122	0	83
MIC														
>32								1						83
64	1	1			10					1	1	47		
>64	74											67		
128					6									
>128					4					1				
>1024											89			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Pigs - fattening pigs

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: United Kingdom

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin	
	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	
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	58	58	58	58	58	58	58	58	58	58	58	58	
N of resistant isolates	52	57	11	11	12	53	11	11	1	0	0	0	
MIC													
<=0.015										40			
<=0.03											56		
0.03											15		
<=0.064	3	39											
0.064										2	2		
<=0.12							14	4	27				
0.12	3	7		1									
<=0.25	1									1			
0.25	5							26	2	30			
0.5	2					4	1	1					
1	2	3	4		5								
2	5	2	4		5	21	3						
4	17	6				21	13	3				22	
8	17	2	2		20	4	3					30	

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid	Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid	Ertapenem	Imipenem	Meropenem	Temocillin		
Cefotaxime synergy test	Not Available	Not Available	Positive/Present	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	Not Available	Positive/Present	Negative/Absent	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	58	58	58	58	58	58	58	58	58	58	58	58
N of resistant isolates	52	57	11	11	12	53	11	11	1	0	0	0
MIC												
16	3	7		1	3	9		2				6
32	1	12			3	1						
64		10			5							
>64		15			1							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Pigs - fattening pigs

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: United Kingdom

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	58	58	58	58	58	58	58	58	58	58	58	58	58	58
N of resistant isolates	57	6	57	53	7	15	0	3	0	8	38	40	0	31
MIC														
<=0.015						35								
<=0.03									58					
0.03						7								
0.064						1								
0.12						3								
<=0.25			1										50	20
0.25						6								
<=0.5				5				33						
0.5						3							8	7
<=1							58							
1			1	6		1		21						
<=2		2										17		
2			5	24				1						
<=4										45				
4	1	35	6	8								1		
>4			45											
<=8					46						11			
8		14		6						4				
>8				9		2								
16		1			5			1		1	4			
32		2			2			1		2	5	7		

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	58	58	58	58	58	58	58	58	58	58	58	58	58	58
N of resistant isolates	57	6	57	53	7	15	0	3	0	8	38	40	0	31
MIC														
>32								1						31
64	1									2		15		
>64	56	4										18		
128					3					1				
>128					2					3				
>1024											38			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from bovine animals - fresh - chilled

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON pn12

Analytical Method:

Country of Origin: United Kingdom

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	Not Available
Ceftazidime synergy test	Not Available	Not Available	Not Available	Not Available	Not Available	Negative/Abs 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				
1					1					
4	1			1						
8										1
64		1								

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from bovine animals - fresh - chilled

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON

Analytical Method:

Country of Origin: United Kingdom

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	0	0	0	0	0	1	0	0	0
MIC														
<=0.015						1								
<=0.03								1						
<=0.25													1	1
<=1							1							
1				1										
<=2												1		
2								1						
<=4										1				
4		1												
>4			1											
<=8					1									
>64	1													
>1024											1			

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from pig - fresh - chilled

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON pnl2

Analytical Method:

Country of Origin: United Kingdom

Sampling Details:

AM substance	Cefepime	Cefotaxim	Cefotaxime + Clavulanic acid		Cefoxitin	Ceftazidim	Ceftazidime + Clavulanic acid		Ertapenem	Imipenem	Meropenem	Temocillin
	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
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	3	3	3	3	3	3	3	3	3	3	3	3
N of resistant isolates	3	3	1	1	1	3	1	1	0	0	0	0
MIC												
<=0.015										2		
<=0.03											3	
0.03									1			
<=0.064			2									
<=0.12							1			2		
0.25	1											
1						2						
4	2				1							1
8				1	1						1	
16			1							1		
32			2									
>64					1							

Table Antimicrobial susceptibility testing of Escherichia coli, non-pathogenic, unspecified in Meat from pig - fresh - chilled

Sampling Stage: Retail

Sampling Type: food sample - meat

Sampling Context: Monitoring

Sampler: Official sampling

Sampling Strategy: Objective sampling

Programme Code: ESBL MON

Analytical Method:

Country of Origin: United Kingdom

Sampling Details:

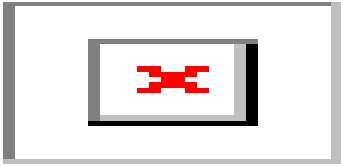
AM substance	Ampicillin	Azithromycin	Cefotaxim	Ceftazidim	Chloramphenicol	Ciprofloxacin	Collistin	Gentamicin	Meropenem	Nalidixic acid	Sulfamethoxazole	Tetracycline	Tigecycline	Trimethoprim
ECOFF	8	16	0.25	0.5	16	0.064	2	2	0.125	16	64	8	1	2
Lowest limit	1	2	0.25	0.5	8	0.015	1	0.5	0.03	4	8	2	0.25	0.25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

OTHER ANTIMICROBIAL RESISTANCE TABLES

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	Meat from bovine animals - fresh - chilled	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Retail	N_A	Monitoring	Official sampling	food sample - meat	batch (food/feed)	United Kingdom	N_A	289	0
	Meat from pig - fresh - chilled	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Retail	N_A	Monitoring	Official sampling	food sample - meat	batch (food/feed)	United Kingdom	N_A	285	0
	Pigs - fattening pigs	Escherichia coli, non-pathogenic, unspecified	Objective sampling	Slaughterhouse	N_A	Monitoring	Official sampling	animal sample - caecum	slaughter animal batch	United Kingdom	N_A	308	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	24-Jul-2020
Esbl	24-Jul-2020
Animal Population	03-Sep-2020
Disease Status	24-Jul-2020
Food Borne Outbreaks	25-Jul-2020
Prevalence	03-Sep-2020