

**European Commission DG Health and Consumer Protection**

**Baseline study Turkeys**

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All wording should be in English, as far as possible, in order of ease interpretation of the information

Information on the holding where the flock was sampled						
Item Integer	Variable	Constraint	Definition	Description and Particularity	Type	Values
001	<b>Country</b>	Mandatory	Country in which the sampling has occurred	Must only be one of the values from the list or reference given in the 'Values' column	Text	ISO 3166-1-Alpha-2. Add Norway, Bulgaria, Romania, Iceland and Switzerland
002	<b>Holding</b>	Mandatory	Holding in which the sampling has occurred	Identifier of the holding. Each holding must be uniquely identified within the country. Please note that the same ref. of holding has to be used if different flocks are sampled during the year in the same holding	Text	Alphanumeric values
003	<b>Comment</b>	Optional	Comment on holding	MS can put whatever relating to any specific point under that holding, including test results	Text	Alphanumeric values
004	<b>Holding production type .</b>	Mandatory	Characteristics of the production types present in the holding.	In case there are different types of production for turkeys, all types present on the holding should be listed; What is not organic is due to be considered as free range standard.	List element(s)	(conventional), (free range standard), (free range organic), (unknown)
005	<b>Holding production group</b>	Mandatory	Characteristics of the production groups present in the holding.	In case there are different groups of production for turkeys, all groups present on the holding should be listed	List element(s)	(breeding), (rearing for breeding), (rearing for fattening), (fattening),
006	<b>Turkey places</b>	Mandatory	Size (category) of the holding	Total of turkey places (of all production groups together at full capacity).	List element	(below 500), (500 –4999), (5000 – 9999), (10000 – 49999), (50000 – 99999),(>= 100000)
007	<b>Turkeys in holding</b>	Mandatory	Number of turkeys in this holding	Approximate number of turkeys of all production groups together in the holding present at the time of sampling.	Integer	
008	<b>Number of flocks</b>	Mandatory	Number of flocks in	Total number of flocks (of all production groups	Integer	

			this holding at full capacity	together at full capacity)		
009	<b>Flocks at sampling</b>	Mandatory	Number of flocks in this holding at sampling		Integer	
010	<b>Place of holding</b>	Mandatory	Region in which the holding is located	Region specified in Eurostat NUTS nomenclature or another list of regions proposed by the country.	Text	Alphanumeric values : Specify reference according to NUTS nomenclature level No2. Alternative lists may be proposed by countries.

**Information on the flock(s) the samples were taken**

<b>Item Integer</b>	<b>Variable</b>	<b>Constraint</b>	<b>Definition</b>	<b>Description and Particularity</b>	<b>Type</b>	<b>Values</b>
011	<b>Flock reference</b>	Mandatory	Reference of the flock sampled within the holding	Each flock must be uniquely identified within the holding	Text	Alphanumeric values
011a	<b>House reference</b>	Mandatory	Reference of the house sampled within the holding	Each house must be uniquely identified within the holding. The same reference must be used if another flock in the house is sampled during the year	Text	Alphanumeric values
012	<b>Number of turkeys in flock</b>	Mandatory	Number of turkeys in the flock sampled	Approximate number present at time of sampling	Integer	
013	<b>Flock production type</b>	Mandatory	Type of production in the flock sampled	Free range flocks which are not organic, are to be considered as free range standard.	List element	(conventional), (free range standard), (free range organic), (unknown)
014	<b>Flock production group</b>	Mandatory	Characteristics of the production group sampled		List element(s)	(breeding), (fattening),
015	<b>Date of sampling</b>	Mandatory	Date of collection of the sampling	All samples should be taken the same day. In the case of re-sampling, all sampling should be repeated.	Date	ISO 8601 (YYYY-MM-DD)
016	<b>Age of turkeys at sampling</b>	Mandatory if 017 and 018 are not filled in; blank otherwise	Age of the birds at sampling ( <b>in days</b> ) in the flock if only one age in the flock.		Integer	

017	<b>Age of the youngest turkeys at sampling</b>	Mandatory if 016 is not filled in; blank otherwise	Age of the youngest birds at sampling ( <b>in days</b> ) in the flock in case of mixed age in flock		Integer	
018	<b>Age of the oldest turkeys at sampling</b>	Mandatory if 016 is not filled in; blank otherwise	Age of the oldest birds at sampling ( <b>in days</b> ) in the flock in case of mixed age in flock.		Integer	
019	<b>Number of cycles (crop) in the house per year</b>	Mandatory	Number of crops per house per year	The typical number of cycles for the production group sampled in the house	Integer	
020	<b>Expected slaughter or depopulation age</b>	Mandatory	Expected age of slaughter or depopulation of the flock (in days)	Age in days of flock at expected date of final slaughter or depopulation following sampling	Integer	
021	<b>Vaccination status</b>	Mandatory	Vaccination status of the turkeys in the flock	Salmonella vaccines used ( <b>not other vaccines</b> ).	List element	(yes); (no);(unknown);
022	<b>Vaccination type</b>	Mandatory when item 021 is "Yes"	Type of vaccination applied to turkeys.	Empty in case of no vaccination or unknown status of vaccination.	List element	(live vaccine); (inactivated vaccine); (live and inactivated vaccines);(not known)
023	<b>Vaccination name</b>	Mandatory when item 021 is "Yes"	Name(s) of the vaccine(s) used for the vaccination.	Empty in case of no vaccination or unknown status of vaccination. If the name of the vaccine is not present in this list, specify the name.	List element(s) or Text (should be alphabetically)	(Salmonella vac T); (Salmonella vac E); (Zoosaloral H); (Salmovac SE); (Gallivac SE); (Poulvac ST); (Poulvac SE); (Poulvac SE-ND-IB); (Nobilis Salenvac); (Nobilis Salenvac T); (Nobilis SG 9R); (Megan TM Vac 1); (Gallimune SE);

						(Autogenous vaccine); (unknown); If not in this list, specify.
024	<b>Medication status</b>	Mandatory	Have antimicrobials been used during the last two weeks?		List element	(no);(yes);
025	<b>Medication - antimicrobial name</b>	Mandatory when item 024 is "Yes"	Medication used during previous 2 weeks in the flock	Empty in case of no medication. If the name of the antimicrobial is not present in this list, specify the abbreviations as for AMST or specify name of other active substance (or if not possible, specify the commercial name)	List element(s) or Text (should be alphabetically)	(Amoxicillin); (Tylosine); (Spectinomycin); (Spiramycin); (Colistine); (Erythromycin); (Lincomycin); (Flumiquin); (Tetracycline); (Chloramphenicol); (Florfenicol); (Ampicillin); (Nalidixic acid); (Ciprofloxacin); (Enrofloxacin); (other fluoroquinolones); (Sulfonamide/Trimethoprim); (Trimethoprim); (Sulfonamides); (Streptomycin); (Gentamicin); (Neomycin); (Kanamycin); (Cephalosporin Cephalotin); (Cephalosporin Cefotaxim); (Cephalosporin Ceftazidime); (Cephalosporin Cefoperazone); (Cephalosporin Ceftiofur); (Cephalosporin Cefuroxime); (Cephalosporin Cefquinome); (Cephalosporin Ceftriaxone); or abbreviations as for AMST; or specify name of other active substance (or if not possible, specify

						the commercial name)
Information on the sample(s) within the framework of the technical specifications and result(s) of detection. Five mandatory samples are requested. Repetitions of this block are required.						
Item Integer	Variable	Constraint	Definition	Description and Particularity	Type	Values
026	<b>Reference of the sample</b>	Mandatory	Identifier of the sample within the flock.	Each sample must be uniquely identified within that flock	Text	Alphanumeric values
027	<b>Type of sample taken</b>	Mandatory	Type of sample taken in the flock	'Hand swab' only authorised for very small flocks	List element	(boot or sock swab);(hand swab);(other)
028	<b>Reference of laboratory for bacteriological detection testing</b>	Mandatory	Identifier of the laboratory used for bacteriological detection testing	Each laboratory must be uniquely identified for the reporting country	Text	Alphanumeric values
029	<b>Date of bacteriological detection testing (starting time)</b>	Mandatory		Date of primary testing in the laboratory	Date	ISO 8601 (YYYY-MM-DD)
030	<b>Test result</b>	Mandatory	Result for the individual sample tested for Salmonella	negative or positive for Salmonella	List element	(positive);(negative);
031	<b>Method for testing and serotyping</b>	Mandatory	Explicit confirmation of respect of the Technical annex	The use of the respect of the technical annex is confirmed by the Member state for each sample	Boolean	(true); (false)
032	<b>Reference of laboratory for serotyping</b>	Mandatory when item 030 is "Positive"	Identifier of the laboratory used for serotyping in case of positive bacteriological detection.	Each Reference laboratory must be uniquely identified for the reporting country. This information is mandatory if a positive answer is given to the 'Test result' item. Remains blank in case of negative answer to the 'Test value' result	Text	Alphanumeric values
033	<b>Reference of isolate (Salmonella serovar)</b>	Mandatory when item 030 is "Positive"	Identifier of the isolate. An Isolate is an instance of identification of a	Each Isolate must be uniquely identified within a sample. This information is mandatory if a positive answer is given to the 'Test result' item. Remains blank in case of negative	Text	Alphanumeric values

			particular Salmonella serovar within a sample	answer to the 'Test value' result		
034	<b>Salmonella serovar</b>	Mandatory when item 030 is "Positive"	The name of the serovar or the formula if not named or untypable	Must only be, in priority, one of the values from the list or reference given in the 'Values' column. This information is mandatory if a positive answer is given to the 'Test result' item. Remains blank in case of negative answer to the 'Test value' result	List element or Text	(S Enteritidis); (S Typhimurium); (S Infantis); (S Virchow); (S Hadar); (S Paratyphi B var Java); (S Mbandaka); (S Senftenberg); (S Indiana); (S Livingstone); (S Braenderup); (S Montevideo); (S Stanley); (S Newport); (S Derby); (S Indiana); (S Livingstone); (S Anatum); (S Saint Paul); (S Agona); (S Bredeney); (S Bovismortificans); (S Kottbus); (S Heidelberg); (Untypable); (Other: specify name or antigenic formula according to Kaufmann-White scheme)
036	<b>Reference of laboratory for phage typing</b>	Optional	Identifier of the laboratory used for phage typing	Each Reference laboratory must be uniquely identified for the reporting country	Text	Alphanumeric values
037	<b>Salmonella Enteritidis phagetype</b>	Optional	The name of the phagetype or untypable		List element or Text	(PT4); (PT8); (PT21); (PT6); (PT1); (PT14B); (PT21); (PT5); (RDNC); (other :specify according to HPA Colindale scheme) ; (untypable)

038	<b>Salmonella Typhimurium phagetype</b>	Optional	The name of the phagetype or untypable A: according to HPA Colindale scheme B: according to other scheme to be specified		List element or Text	A: (DT104); (DT104h), (DT12); (DT46) ; (DT2); (DT8); (DTU302); (DT193); (DT120); (DT1); (DT104I); (DT170); (DT208); (RDNC); (Other: specify name); (untypable) B: (specify name); (untypable)
039	<b>AMST Name</b>	Optional	Antimicrobial susceptibility testing (AMST)	Name of the antimicrobial tested	List element(s) or Text (should be alphabetically)	(Tetracycline); (Chloramphenicol); (Florfenicol); (Ampicillin); (Nalidixic acid); (Flumiquin) (Ciprofloxacin); (Enrofloxacin); (Sulfonamide/Trimethoprim); (Trimethoprim); (Sulfonamides); (Streptomycin); (Gentamicin); (Neomycin); (Kanamycin); (Cephalosporin Cephalotin); (Cephalosporin Cefotaxim); (Cephalosporin Cefotaxime); (Cephalosporin Cefotaxime); (Cephalosporin Cefoperazone); (Cephalosporin Ceftiofur); (Cephalosporin Cefuroxime); (Cephalosporin Cefquinome); (Cephalosporin Ceftriaxone); (other specify);
040	<b>AMST Result</b>	Optional	Antimicrobial susceptibility testing (AMST)	Evaluation of the test result to Antimicrobial. R,I,S should come in addition to MIC or inhibition zone diameter (IZD) Exceptionally, It can be also a default value when MIC or IZD	List element or Text or Integer	(MIC-value (µg/ml) or IZD (mm)) and RIS R (Resistant), I (intermediate), S (sensitive) ( <i>valid for all AMST</i> )

				are not known Breakpoints used by countries to define R,I,S should be reported in the general national reports of the whole study (valid for all AMST)		
041	<b>Reference of laboratory for AMST</b>	Optional	Identifier of the laboratory used for AMST	Each Reference laboratory must be uniquely identified for the reporting country	Text	Alphanumeric values

**Additional information in view of an analysis of the main risk factors. All these items are optional. It is however requested to collect this information from at least 50% of the samples by using a short checklist at the farm and, if information is collected on the sample, to complete the whole checklist as much as possible**

Item Integer	Variable	Constraint	Definition	Description and Particularity	Type	Values
042	<b>Holding of parents</b>	Optional	Origin of parents	Holding (s) where the parents of the flock came from	List element (s)	(same holding); (same integration); (unrelated holding); (other Member State); (third country); (unknown)
043	<b>Holding of hatchery</b>	Optional	Hatchery of origin		List element (s)	(same holding); (same integration); (unrelated holding); (other Member State); (third country); (unknown)
044	<b>Holding of rearing</b>	Optional	Place where the rearing took place	Rearing period: first 6 to 7 weeks of the life of the turkeys in the flock	List element (s)	(same holding); (same integration); (unrelated holding); (other Member State); (third country); (unknown)
045	<b>Origin of the feed</b>	Optional	Production side of the feed	More than one source may be reported	List element (s)	(same holding); (same integration); (unrelated holding); (other Member State); (third country); (unknown)
046	<b>Feed supplement</b>	Optional	Use of feed supplements	Feed supplements used during any stage with a potential anti-salmonella effect on the feed. Other than antibiotics.	List element (s) or Text	(Acid preservatives); (probiotic micro-organisms); (other, specify)
047	<b>Antimicrobial treatment</b>	Optional	Use of antimicrobials	Were anti-microbials used at any stage of production within the flock	Boolean	(true); (false)
048	<b>Number of thinnings</b>	Optional	Number of thinnings in flock	Number of thinnings before sampling	Integer	
049	<b>Date of thinning</b>	Optional	Date of first thinning in the flock		Date	ISO 8601 (YYYY-MM-DD)
050	<b>All in /all out in flock</b>	Optional	Application of all	Was all in/all out applied to the house before	Boolean	(true); (false)

			in/all out in the sampled flock	the flock was set up?		
051	<b>All in /all out in holding</b>	Optional	Application of all in/all out in the holding	Was all in/all out applied to the holding before the flock was set up?	Boolean	(true); (false)
052	<b>Time between flocks</b>	Optional	Time between flocks	Time period during which the house of a flock is empty (generally for the whole holding)	List element	(1 to 3 days); (3 to 7 days); (7 to 14 days); (over 14 days)
053	<b>Salmonella detected</b>	Optional	Salmonella detection in flocks on the holding	Has salmonella been demonstrated in flocks on the holding during the preceding 6 months?	List element	(Yes); (No); (No sampling); (unknown)
054	<b>Other livestock</b>	Optional	Other livestock on the holding		List elements	(None); (other poultry); (pigs); (cattle); (small ruminants) (others)
055	<b>Rodents</b>	Optional	Presence and control of rodents	Were rodents observed and controlled during the preceding 6 months?	List element	(not seen); (not seen but control measures taken); (seen but no control measures taken); (seen and apparently efficiently controlled); (seen and control measures taken without clear effect)
056	<b>Age of the house</b>	Optional	Age of the house	Age of the house of the sampled flock	List element	(< 5 years); (5-10 years); (10-25 years); (> 25 years)

#### Definition of the data types used in this dictionary

Name	Definition	Example
<b>Text</b>	Alphanumeric values	Ex. : 'Abcd, 1234'
<b>Integer</b>	rounded number values	Ex. : '1', '22', '333'
<b>Boolean</b>	true or false value	
<b>Date</b>	String corresponding to the following format : YYYY-MM-DD	Ex. : '2004-11-22'
<b>List element</b>	Must be only one of the value present in the 'Values' column	
<b>List element(s)</b>	Must be one or more values present in the 'Values' column	