| Country | Surveillance compulsory | Domestic ra | w feed material | Imported raw f (EU and Non-E | U countries) | Process control | | Compound feed | | Comments |
|-----------------------------------|----------------------------|---|--|--|---|--|---|--|--|--|
| | | Animal | Vegetable | Animal | Vegetable | | Cattle | Pig | Poultry | |
| Austria | Yes | Each farm, processing sampled at least twice | | Each farm, processing pla samples at least twice per | | x | Each farm, proce least twice per ye | ssing plant and retai | iler are samples at | Official sampling is carried out according to Directive 1976/371/EC Analysis method: ISO 6579:2002 |
| Belgium Bulgaria | Yes | Official monitoring Official monitoring | | The samples are taken from farm, processing plant and retail on the random selection | - | yes | x yes | x yes | x yes | Official sampling is carried out according to Directive 1976/371/EC Analysis method: ISO 6579:2002 |
| Cyprus | - | - | • | - | - | - | - | - | - | |
| Czech Republic Denmark | - Yes | - Targeted sampling | - Targeted sampling | - Targeted sampling | - Targeted sampling | - Targeted sampling | | - | - | |
| Estonia Finland | Yes Yes | Monitoring Self control systems ba legislation | Monitoring used on requirements of | - Every consignment is sampled or random sampling depending on feed type | Every consignment is sampled | x | | Monitoring ms based on require sk-based official sam | Monitoring ements of legislation. npling | Official sampling is carried out according to Directive 1976/371/EC Analysis method in Evira: ISO 6579:2002 with some minor modifications. |
| - | - | - | - | Sampling frequency depe material and it is based or | | - | - | - | - | |
| France Germany | - Yes | Official monitoring, rand | dom sampling | Official monitoring, random sampling Samples are taken by | - | | Official monitorin | g, random sampling | | |
| | | | | official labs. At least 25 samples per batch | | | | | | |
| Greece | - | Targeted and routine sampling | Targeted and routine sampling | - | - | - | - | - | ISO 6571, ISO 6581 | |
| Hungary | - | - | - | - | - | - | - | - | - | |
| Ireland | Yes | Compulsory sampling and domestic | | ance with Directive 1995/53 | B/EC - both imported | - | X | Х | X | |
| Italy | Yes | - | Official control as well as HACCP or own check by the industry | - | - | - | Official control as industry | s well as HACCP or o | own check by the | |
| Latvia | Yes | Official and HACCP or | own check by the industry | Targeted sampling and HACCP or own check by the industry | Targeted sampling and HACCP or own check by the industry | HACCP by the industry | Official and HAC | CP by the industry | | Official sampling is carried out according to Directive 76/371/EEC Analysis method: ISO 6579:2002 |
| Lithuania | Yes | Official and self control | Official and self control | Official and self control | Official and self control | Official and self control | Official and self control | Official and self control | Official and self control | Analysis method: LST EN ISO 6579:2003 It |
| Luxembourg | - | - | - | - | - | - | - | - | - | |
| Malta | - | - | - | - | - | - | - | - | - | |
| Netherlands Poland | Yes | Own control | | - | | | Routine testing | - | - | |
| Portugal | - | - | | | _ | - | - | | | |
| Slovakia | - | - | - | - | - | - | - | - | - | |
| Slovenia | Yes | Official target sampling programme based on F | | Official target sampling a programme based on HA | | Official target sampling and own check programme based on HACCP by the industry | Official target sar on HACCP by the | | ck programme based | |
| Spain Sweden | Yes Yes | Monitoring Targeted sampling/self | Monitoring control | - Targeted sampling | - | - HACCP sampling prescribed by law ¹ and official targeted control | Monitoring - | Monitoring - | Monitoring - | |
| United Kingdom (Great Britain) | - | | naterial is required if the ended for use in livestock e | Tested according to a risk assessment | · - | Codes of practice for control is applied as part of the HACCP process | х | x | х | |
| United Kingdom (Northern Ireland) | - | - | | x | - | - | х | х | х | |
| Norway | Yes | Own check programme legislation. Random sa surveillance programme | | х | х | Own check programme based on HACCP by the industry | All complete feed treatment ² | lingstuffs must be su | bject to heat | Official sampling according to Directive 1976/371/EC |
| Switzerland | _ | _ | _ | | _ | _ | _ | _ | _ | |
| x - routinely performe | | | | | | | | | | |

x - routinely performe

^{1.} In Sweden, feed mills producing feedingstuffs for poultry a minimum of five samples per week, feed mills producing feedingstuffs for ruminants, pigs or horses two samples a week.

^{2.} In Norway, establishments producing feed are required to establish own check programme based on HACCP. In addition, random samples are collected through an official surveillance programme.

Appendix Table SA2. Salmonella surveillance programmes in poultry breeders (Gallus gallus), 2008

| Countries womeing on conveyed | monitoring and control programme ^{1,2} accord | ling to Directive 4000/447/ | TC: masting at least the minimum |
|---|--|--------------------------------|------------------------------------|
| sampling requirements set out b | | ling to Directive 1992/11// | EC; meeting at least the minimum |
| MSs with approved surveillance progra | · · · | All MSs ³ except MT | |
| Non-MS with approved surveillance pro | ogrammes (ESA Decision No 364/07/COL) | NO | |
| | 07/782/EC as amended by Decision 2008/920/EC | 19 MSs except EE, FI, LT, | LU ⁴ , MT, SI, SE, UK |
| Countries with additional sampling (see | e Appendix Table SA3) | AT, DK, FR, NL, SE, UK | |
| Mimimum requirement according | g to Regulation (EC) No 2160/2003 | | |
| Rearing period | | Production period | |
| Day old chicks | Dead chickens / destroyed chickens | Every 2 weeks | dead chickens or |
| | Samples from the inside of the delivery boxes | | meconium samples/5 pairs of sock |
| | (internal lining/paper/crate material) | | samples |
| 4 th week | faecal samples | Every 8 weeks | Official sampling instead of above |
| 2 weeks before moving | faecal samples | | mentioned sampling |
| Diagnostic methods used | | | |
| ISO 6579:2002 | BE, BG, CZ, EE, GR, IT, NO, PL, SK, ES, NL, SE | | |
| Modified ISO 6579:2002 | AT, DK, LV, UK | | |
| Annex D of ISO 6579:2002 | LV | | |
| ISO 6579:2002 / Amendment 1:2007 | FI | | |
| ISO 6579:2002, Annex D:2007 | SI | | |
| AFNOR NF U 47 100 and 47 101 | FR | | |

^{1.} Regulation (EC) 1003/2005 sets the community targets for the reduction of the prevalence of certain Salmonella types in breeding flocks of Gallus gallus. Setting the testing scheme to verify the achievement of the community targets for S. Enteritidis, S. Hader, S. Infantis, S. Typhimurium and S. Virchow.

^{2.} Non-MS (EFTA members) must apply the EU legislation according to Decision of the EEA Joint Committee No 101/2006

^{3.} Decision 2007/874/EC approves Romanias surveillance programme and Decision 2007/873/EC approves Bulgarias surveillance programme

^{4.} Luxembourg does not have any breeding flocks

| | Rearing period | | Production period | |
|----------------------|---------------------------|---------------------------|--|---|
| Austria | At week 12 | Faecal samples | Every 4 weeks | Faecal samples |
| Denmark | Week 1,2 and 8 | Faecal samples | Every week | Faecal samples |
| | | | Hatcheries: after each hatch when sampling according to Directive 1992/117/EC is not carried out | Wet dust samples |
| | | | 0-4 weeks before moving, 8-0 weeks before slaughter | Faecal samples |
| Finland ² | | | Every 2 weeks | Hatcher basket liners or egg shells at hatchery or faecal or sock samples at farm |
| | | | Every 16 weeks at hatchery and twice at holding or three times at holding | Official sampling instead of above mentioned sampling |
| France | 4 weeks | Faecal samples and chiffs | Every two weeks at hatchery | 5 Hatch tray layers or 250g of shells |
| | | | Every 8 weeks at farm (meat); at 24, 36, 54, 62 weeks (eggs) | Faecal samples and chiffs |
| Netherlands | max. 21 d before transfer | cloacal swabs | From 20 weeks every 4 weeks | Cloacal swabs, 6x25/flock |
| | | | Hatchery | Fluff samples (25g) / hatching entity |
| Netherlands | 4 weeks | cloacal swabs | From 20 – 24 weeks and every 9 weeks | |
| | max.21 d before transfer | cloacal swabs | No vaccination | blood samples ¹ |
| | | | Vaccination: | |
| | | | From week 26 and on | fluff samples, every hatch, every machine |
| United Kingdom | | | Additional operator sampling at hatchery - every hatch | Fluff, dust, meconium, chicks etc |

^{1.} Sample size depends on flock size

^{2.} In Finland, this is not additional sampling, but sampling instead of the requirements set out in the Regulation

Appendix Table SA4. Control measures¹ taken in poultry breeder flocks in case of Salmonella infection, 2008

| Control meas | sures | Countries |
|----------------|---|--|
| Serovars cove | red | |
| | All Serovars S. Enteritidis and S. Typhimurium S. Enteritidis, S. Typhimurium, S. Hadar, S. Virchow, S. | AT, DK, FI, SE, NO, NL, LT BG, FR, DE, IE, UK, ES, IT EE, SI, SK |
| | Infantis | |
| Restrictions o | n the flock | |
| | After confirmation of Salmonella infection | ES, LV, NL, PL, IT, SK |
| | Immediately following suspicion of Salmonella Chicks already delivered covered by restrictions | AT, BG, DK, EE, FR, SE, NO, IE, SI, UK NO |
| Consequence | | |
| | Slaughter | BE, EE, ES, GR, FR, IE, PL, SK, UK ² , IT |
| | Restrictions for the delivery of hatching eggs | AT^3 , BE^4 , BG , EE , ES , FI , LV , NO , NL , DK^3 , PL^4 , SI , SK , FR , IT , FI , UK^4 |
| | Slaughter and heat treatment | AT, DK, DE, FI, LV, NL ⁵ , NO, LT |
| | Destruction | SE, SI ⁶ |
| Other consequ | uences | |
| | Feedingstuffs are restricted (heat treatment or destruction) | DK, EE, FR, NO, SE, SI ⁷ |
| | Disposal of manure restricted | EE, FR, FI, NO, LV, SE, UK, DK, PL, SI, SK |
| Cleaning and | disinfection | |
| | Obligatory | AT, BE, BG, DK, EE, FR, FI, SE, IE, NO, NL, PL, SI, SK, UK, IT, LT, LV |
| | Negative bacteriological result required before restocking | AT, BG, DK, EE, ES, FR, FI, IE, NO, NL, SI, SE, UK, IT, LT, LV |
| | Requirement of an empty period | AT (14 days), EE (3 weeks), FR (less than 30 days), N0 (30 days after disinfection), IT (30 days after disinfection) |
| Further invest | igations | |
| | Epidemiological investigation is always started | EE, ES, FI, FR, NO, SE, IE, NL, UK, IT, SI, SK, LV |
| | Feed suppliers are always included in the investigation | FI, NO, SE, IE, NL, UK, SI, SK, LV |
| Vaccination | Contact herds are included in the investigation | FI, FR, IE, NO, NL, SE, UK, LV |
| vaccination | Mandatory | AT |
| | Recommended | BE |
| | Permitted | BG, CY, DK ⁸ , EE ⁹ , ES, IT , LT, LV, SI, SK, UK |
| | Prohibited | FI, NO, SE |
| 1 Mimimum cont | rol measures are set out in Regulation (EC) 2160/2003, annex II (| |

- 1. Mimimum control measures are set out in Regulation (EC) 2160/2003, annex II (C).
- 2. In the United Kingdom, only flocks that are positive for S. Enteritidis or S. Typhimurium are compulsorily slaughtered
- 3. Destruction of the hatching eggs
- 4. Destruction of incubated eggs, not yet incubated eggs may be pasteurised
- 5. In the Netherlands, only flocks that are positive for S. Enteritidis or S. Typhimurium are obligatory slaughtered
- $6. \ In \ Slovenia, only flocks that are positive for \ S. \ Enteritidis or \ S. \ Typhimurium are obligatory slaughtered or destroyed$
- 7. In case of detection of S. Enteritidis, S. Typhimurium, S.Hadar, S. Virchow, S. Infantis in feedingstuffs
- 8. In Denmark, no vaccination occurs, as no vaccinations have been approved by the Danish Veterinary and Food Administration
- 9. In Estonia, vaccination against Salmonella could only be performed basing on the Veterinary and Food Board approval

Appendix Table SA5. Salmonella monitoring programmes in laying hens (Gallus gallus) producing table eggs, 2008

| Appendix Table One: C | damonena monitoring programmes in laying nems | (Canao ganao) producing | g table eggs, 2000 | | | |
|---------------------------------------|--|--|---------------------------------------|--|--|--|
| Countries running an a | approved monitoring and control programme ¹ acc | ording to Regulation (EC) | No 2160/2003 and meeting at least the | | | |
| minimum sampling red | quirements set out by Regulation (EC) No 1168/200 | 06² | | | | |
| MSs with approved surveil | lance programme (Decision 2007/848/EC) | All MSs except Malta | | | | |
| Non-MS with approved sur | veillance programmes (ESA Decision No 364/07/COL) | NO | | | | |
| MSs with EU co-financing 2008/920/EC) | (Decision 2007/782/EC as amended by Decision | 20 MSs except DK, FI, IE, | LT, MT, SI, SE, | | | |
| Countries with additional s | ampling (see Table SA5a) | AT, CZ, DK, EE, FR, LT, N | NL, PL, SK, UK | | | |
| Mimimum requirement | according to Regulation (EC) No 2160/2003 as an | nmended by Regulation (E | EC) No 1168/2006 | | | |
| Rearing period | | Production period ³ | | | | |
| Day old chicks | Dead chickens / destroyed chickens | Week 24 ± 2 weeks | Feacal samples | | | |
| | Samples from the inside of the delivery boxes (internal lining/paper/crate material) | At least every 15th week thereafter | Feacal samples | | | |
| 2 weeks before moving | Faecal samples | | | | | |
| Diagnostic methods us | sed | | | | | |
| ISO 6579 (2002) | | AT, BE, BG, CZ, EE, GR, | IT, NO, PL, SE, S⁴, SK, ES | | | |
| Modified ISO 6579 (2002) | | LV | | | | |
| ISO 6579 (2002) / Amendr | nent 1:2007 | FI, UK | | | | |
| AFNOR NF 47 100 and 47 | 101 | FR | | | | |
| The method described in the | ne O.I.E. manual, 5th ed., 2004 | SI | | | | |
| Buffered Peptone water | | PT | | | | |
| Various bacteriological | | DK, LT, UK | | | | |
| No information | | CY, DE, HU, IE, LU, MT | | | | |

^{1.} Non-MSs (EFTA members) must apply the EU legislation according to Decision of the EEA Joint Committee No 101/2006.

^{2.} Regulation (EC) 1168/2006 sets the Community targets for the reduction of the prevalence of certain Salmonella types in laying hen flocks of Gallus gallus and setting the testing scheme to verify the achievement of the Community targets for S. Enteritidis and S. Typhimurium.

^{3.} Once a year, the competent authority sample one flock per holding comprising at least 1,000 birds

^{4.} ISO 6579(2002), Annex D:2007

Appendix Table SA5a. *Salmonella* monitoring programmes in laying hens (*Gallus gallus*) producing table eggs, 2008 - additional sampling

| Day old chicks | | Rearing period | | Production period | |
|----------------|--------------------|----------------|---|---|-----------------|
| Type of sample | | | | | |
| Meconium | AT, EE, FR, PL, SK | Faecal samples | CZ ¹ , DK ^{1, 2} , LT, SK | Blood samples | NL ¹ |
| | | Dust samples | FR, UK ³ | Egg samples | DK^2 |
| | | Blood samples | DK ^{1, 2} , NL ¹ | Faecal samples collected more frequently than every 15th week | DK, IE, LT, SK |

- 1. Number of samples depend on flock size
- 2. All flocks are sampled
- 3. Additional dust samples taken by large proportion of UK producers on a voluntary basis before start of lay

Appendix Table SA6. Control measures¹¹ taken in laying hens (*Gallus gallus*) producing table eggs in case of *Salmonella* infections, 2008

| Control measures | Countries |
|--|---|
| Serovars covered | |
| All Serovars | AT, DK, FI, NO, LT, SE ¹ |
| S. Enteritidis and S. Typhimurium | BG, CZ, EE, ES, FR ² , LV, NL, IE, PL, SK, SI, UK ⁹ |
| Restrictions on the flock | |
| Immediately following suspicion | BG, DK, EE, FR, IE, NO, NL, PL, SI, SE |
| Eggs covered by restrictions already on the basis of suspicion | DK, FR, IE, NO, NL, PL, SE, SI |
| Consequence for the flock | |
| Recovery or slaughter | |
| Slaughtered | ES, GR, IE, PL, SK |
| Flocks destroyed | LT |
| Sanitary slaughter | DK, FR |
| Destruction | CY, CZ, SE, SI |
| Slaughter or destruction | BG, EE |
| Sanitary slaughter or destruction | NO |
| Slaughter and heat treatment or destruction | FI, SI |
| Treatment with antibiotics | AT ³ , CZ, PL, SI ³ |
| Consequence for the table eggs | , , , |
| Destruction | BG, CY, EE, SE⁴ |
| Heat treatment | AT, BE, CZ, DK, FI, FR, IE ⁵ , LT, NL ⁵ , SE ³ |
| Destruction or heat treatment | ES, NO, PL, SK, SI, UK |
| Other consequences | |
| Feedingstuffs are restricted (heat treatment or destruction) | DK, EE, NO, SI, SE |
| Disposal of manure restricted | EE, FI, FR, NO, PL, SK, SI, SE |
| Cleaning and disinfection | |
| Obligatory | BE, BG, EE, FR, FI, DK, IE, LT, LV, NO, NL, PL, SK, SI, SE |
| Negative bacteriological result required before restocking | BG, ES, FR, FI, IE, LV, NO, NL, DK, SI, SE |
| Requirement of an empty period | DK, EE (21 days), FR, NO (30 days) |
| Further investigations | |
| Epidemiological investigation is always started | EE, ES, FR, FI, IE, NO, NL, SE, UK, SI |
| Feed suppliers are always included in the investigation | EE, FI, IE, NO, NL, SE, SI |
| Contact herds are included in the investigation | EE, FI, FR, IE, NO, NL, SE |
| Intensification of the examination of non-infected flocks on the same farm | DK, FI, FR, IE, NO, NL, SE |
| Vaccination | |
| Mandatory | HU |
| Recommended | AT ⁶ . BE |
| Permitted | DK ⁷ , BG, CZ, EE ¹⁰ , ES ⁸ , FR, LT, LV, SK, SI, UK |
| Prohibited | FI, NO, SE |

Note: No measures are fixed in Directive 2003/99/EC

- 1. In Sweden, for invasive serovars and non-invasive serovars different control strategies may be applied
- 2. In France, during the rearing period, S. Typhimurium and S. Enteritidis are included. During the table egg production period in holdings placing their eggs on the marked via an egg packing centre, only S. Enteritidis is included until 60 weeks, and a last sampling is used to detect S. Typhimurium
- 3. Non-invasive Salmonella
- 4. Invasive Salmonella
- 5. Eggs are pasteurised until the flock is destroyed
- 6. In Austria, vaccination against S. Enteritidis recommended
- 7. In Denmark, no vaccination occurs, as no vaccines have been approved by the Danish Veterinary and Food Administration
- 8. In Spain, only in rearing period
- 9. Voluntary operator monitoring in the United Kingdom in 2007. All isolations of Salmonella must be reported
- 10. In Estonia, vaccination against Salmonella could only be performed based on the Veterinary and Food Board approval
- 11. Mimimum control measures are set out in Regulation (EC) 2160/2003, annex II (D).

Appendix Table SA7. Salmonella monitoring programmes in broiler flocks (Gallus gallus) and broiler meat products, 2008

| Day old chicks | | Before slaughter | er at farm Slaughterhouse and cutting plant | | Processing plants | | At retail | | | |
|--|--------------------------------|---------------------------------------|---|---|--|---|-------------------|---|-----------------------------|--|
| Type of sample | | | | | | | | | | |
| Samples from the inside of the delivery boxes (internal lining/paper/crate material) | EE, PL | Faecal samples/ boot swabs | AT, BE ¹ , BG, DK ² , EE ¹ , ES, FI, LV, NL ¹ , NO, PL, SI, SK, SE ¹ , UK ^{1,3} | Neck skin samples | BE, CZ, EE, IE, LT, SE, UK ¹ | Depend on survey or own-control plans | DK, SE | Depend on survey or own-control plans | DK, SE, s UK | |
| Dust samples (at hatchery) | UK ³ | Dust samples | FR | Breast skin samples | s NL | Fresh meat, minced meat, final products | AT, EE, LT, LV | Fresh meat and/or, final products | AT, EE, LT, LV | |
| Leaflets | NL | Bedding | UK ^{1,3} | Fresh meat | AT, LV | Fresh meat | IE | Fresh meat | NL, SI ⁴ | |
| Meconium | AT, PL, SK, UK ³ | Jan J | OIX. | Carcass swabs | IE | Final product | CZ, IE | Final product | CZ, DE | |
| Dead chicks | AT, EE, SK, UK ³ | | | At cutting plants: Crushed meat samples | EE ¹ ,FI ¹ , SE ¹ | | | Environmental samples | LV | |
| | | | | | | | | Meat preparations, meat products,minced meat | SI ⁴ | |
| Frequency of sampling | | • | | • | | • | | • | | |
| Each delivery | SK | 1-3 weeks before slaughter | AT, BE, BG, DK, EE, ES, FI, NO, PL, SI, SK, UK | Weekly | BE, CZ, SI | Weekly | CZ | Monitoring | DE, IE, NL | |
| Each batch | NL, EE | 2 weeks before slaughter | SE | Random and continuous | AT, EE, FI | Surveys or own- control | DK, SE | Survey or own- control | DK, SE | |
| Every 2 week at hatchery | AT | 1-3 weeks before slaughter | LV | Systematic and continuous Continuous | SE LV | Random and continuous Continuous | AT, EE LV | Random and continuous Continuous | AT, CZ, EE, SI LV, UK | |
| | | | | Each flock/batch | IE, LT IT, NL, UK | Twice a year Random or routine, depend on programme | IE LT | Communication | LV, OIX | |
| Diagnostic methods | | 1 | | ı | | 11 0 2 2 | | 1 | | |
| ISO 6579 (2002) Modified ISO 6579 (2002) | | | BE, CZ, EE, ES AT, DE, LV, SI | , FI, GR, IT, NO, PL, | SE (faecal san | nples), SK, UK | | | | |
| ISO 6579 (2002) / Amendme | ent 1:2007 | | FI (Flocks) | | | | | | | |
| NMKL No 71:1999 | | | FI, SE (meat sa | mples) | | | | | | |
| Various bacteriological metho | ods | | DK, LT, UK | | | | | | | |
| Method in accordance with the | | l 5th ed 2004 | SI | | | | | | | |
| Countries with no official n | | , , , , , , , , , , , , , , , , , , , | <u> </u> | | | | | | | |
| | | • | CZ, ES, IT ⁵ , PT | 6 IIK3 | | | | | | |
| Note: Monitoring is not compulso | . 5: .: | 20/00/50 | UZ, ES, II , PI | , UN | | | | | | |

Note: Monitoring is not compulsory by Directive 2003/99/EC

^{1.} Number of samples depend on flock size or slaughterhouse/cutting plant capacity.

^{2.} In Denmark, flocks are samples twice; 15-21 days and 7-10 days before slaughter

^{3.} Voluntary operator monitoring in the United Kingdom in 2007. All isolations of Salmonella must be reported.

^{4.} In Slovenia, monitoring is based on results from previous years.

^{5.} In Italy, a monitoring programme is running in the Veneto Region.

^{6.} In Portugal, a surveillance programme is running in the Beira Lotoral Region.

Appendix Table SA8. Measures taken in broilers (Gallus gallus) in case of Salmonella infections, 2008

| Control meas | sures | Countries |
|----------------|--|---|
| Serovars cove | ered | |
| | All Serovars | AT, DK, FI, LT, NO, NL, SE ¹ |
| | S. Enteritidis and S. Typhimurium | BG, EE, ES, IE, LV, SI, SK, UK ² |
| Restrictions o | n the flock | |
| | Immediately following suspicion | DK, EE, NO, NL, SI, SE |
| Consequence | for the flock | |
| | Slaughter | SK |
| | Slaughtered and heat treated | AT, DK, FI, LT, LV, NO, SI |
| | Sanitary slaughter | BE, IE, NL, UK |
| | Destruction | FI, LV, SE |
| | Slaughter or destruction | BG, EE, IE, SK, UK |
| | Treatment with antibiotics | AT |
| Other consequ | uence | |
| | Feedingstuffs are restricted (heat treatment or destruction) | EE, NO, SE |
| | Disposal of manure restricted | EE, FI, NO, SK, SI, SE |
| Cleaning and | disinfection | |
| | Obligatory | AT, BG, DK, EE, ES, FI, LT, LV, NO, NL, SI, |
| | Negative bacteriological result required before restocking | BG, DK, EE, ES, FI, NL, NO, SI, SE |
| | Requirement of an empty period | AT (14 days), EE (21 days), NO (30 days after disinfection), DK |
| Further invest | igations | |
| | Epidemiological investigation is always started | EE, ES, FI, IE, NO, SE, SK, UK(GB) |
| | Feed suppliers are always included in the investigation | EE, FI, IE, NO, NL, SE |
| | Contact herds are included in the investigation | EE, FI, NO, SE |
| | Breeding flock that contributed to the hatch will be traced | FI, IE, NO, NL, UK, SE |
| Vaccination | | |
| | Permitted | AT, CZ, EE ³ , LT, LV, SI, SK, UK |
| | Vaccine not registered | DK, ES |
| | Prohibited | FI, NO, SE |

Note: No measures fixed in Directive 2003/99/EC

^{1.} In Sweden, for invasive serovars and non-invasive serovars different control strategies may be applied but are not used in practice

^{2.} Voluntary operator monitoring in the United Kingdom in 2008. All isolations of Salmonella must be reported

^{3.} In Estonia, vaccination against Salmonella could only be performed based on the Veterinary and Food Board approval

Appendix Table SA9. Salmonella monitoring programmes in turkey breeders, 2008

| Day old chicks | | Rearing period | | | Production period | | |
|--|-----------------------|---|-------------------------|--------------------------|---|--|--------------------------|
| Sampling scheme following the provisions | of Directive 1992 | 2/117/EC | | | | | |
| Samples from the inside of the delivery boxes (internal lining/paper/crate material) | FI, NO, PL, SK, LT | At age of 4 weeks and 2 weeks before moving | Faecal samples | FI, NO , PL, SK, LT | Official sampling every 8 weeks | Meconium samples at the hatchery | PL, SK |
| Meconium | SE | At age of 4 weeks and 2 weeks before moving | 2 pairs of sock samples | SE | At hatchery: every 2 weeks | Samples from the underlying papers of hatching baskets | FI |
| Dead chickens/destroyed chickens | PL, SK, LT | | • | | Every 2 weeks | Faecal samples | LT |
| | | | | | Every 2 weeks | 5 pair of sock samples | NO, SE |
| | | | | | Offical sampling 3 times during production period | 5 pair of sock samples | NO, SE |
| | | | | | Every 2 weeks | Dead chickens | PL, SK |
| | | | | | At holding: twice during laying period | Faecal samples | FI |
| Other sampling schemes | | • | | | • | | |
| Swabs/faeces | CZ ¹ | | Swabs/faeces | CZ ¹ , FR, NL | | Swabs/faeces | CZ ¹ , FR, NL |
| Internal lining papers of delivery boxes | FR | Every 4 weeks | Chicks, dust swab | FR | Every 4 weeks | On farm: Chicks, dust swab | FR |
| Sample scheme approved by EU (Decision 96/389/EC) | IE | Sample scheme approved by EU (Decision 96/389/EC) | | IE | Sample scheme approved by EL (Decision 96/389/EC) | J | IE |
| Samples from the lorry and 1 week after arrival: Wooswool samples | NL | | | | Hatchery, every hatch, every machine | Fluff samples | NL |
| | | | | | Every 4 weeks | At hatchery: Environmental swab | FR |
| | | | | | Hatchery | Samples of imported eggs | AT |
| Diagnostic methods used | | | | | | | |
| ISO 6579:2002 | | CZ, NO, PL, SE | | | | | |
| ISO 6579:2002 / Amendment 1:2007 | | FI | | | | | |
| Countries not providing detailed information | n about monitor | | | | | | |
| No information available | | CY, FR, DE, GR, HU, IE, L | T, LU, MT, PT, SI, E | S | | | |
| No official surveillance programme | | BE, BG, CZ, DK, IT, NL, U | K^2 | | | | |
| No turkey breeder flocks present | | AT, EE, LV ³ , SI | | | | | |
| 1. In Czoch Popublic, only dipically ill or cusposted | | | | - | | | |

^{1.} In Czech Republic, only clinically ill or suspected animals are sampled

^{2.} In UK monitoring programmes are voluntary. Farmers producing breeders are encouraged to monitor in the same way as for Gallus gallus under Regulation (EC) No 2160/2003. All isolations of Salmonella must be reported

^{3.} In Latvia, monitoring programmes exist, but at the moment thare are no breeder flocks

Appendix Table SA10. Salmonella monitoring programmes in turkeys, turkey meat and meat products, 2008

| Day old chicks | | Rearing period and before slaughter | | At slaughter and at cutting plants | | Processing plants | | Turkey meat and meat products at retail | |
|--|-----------------|--|--|---|--|---|--|--|--|
| Type of sample | | | | | | | | | |
| Faecal samples/swabs | CZ ¹ | Faecal samples/boot swabs | CZ ¹ , DK ² , FI, NO, NL, SE, SK | Fresh meat | LV, SI | Crushed meat | SE ³ | Routine sampling | IE |
| Dust samples | IE | Dust samples | FR | | | Fresh meat, minced meat, final products | AT, LV, LT | Fresh meat, meat preparations, meat products, minced meat | SI ⁴ |
| Chicks | NL | Cloacal swabs | AT | Neck skin samples | CZ, IE ⁵ , LT, SE ³ , SI | | | Fresh meat, final products | EE, LV, LT |
| Sampling based on the directive | PL | Sampling based on the directive | PL | Dependent on survey | 5 | Final product | CZ, IE | Final product | CZ, DE |
| | | | | Carcasses Cloacal swabs and caecum | AT, IE IT | Depend on survey | DK, UK | Depend on survey | DK, SE, UK |
| | | | | Crushed meat | FI ^{3, 6} | | | | |
| Frequency of sampling | | | | - | | | | | |
| Every two months | ΙΕ | 1 – 3 weeks before slaughter Max 4 weeks before slaughter 2 weeks before slaughter | AT, DK, FI, NO, PL, SK NL SE | Every Batch Weekly Random and continuos Continuous Monthly Every flock | SE CZ FI AT, LV SI LT | Twice yearly Weekly Surveys Continuous Random or routine, depend on programme | IE CZ DK, UK AT, LV, SE LT | Surveys Random and continuous Continuous Monitoring February-March | DK CZ, EE LV DE, UK, LT SI |
| Diagnostic methods used | | | | | | | | | |
| ISO 6579:2002 NMKL No 71:1999 Modified ISO 6579:2002 | | CZ, EE, FI, IT, LT, LV, NO, PL, S FI, SE (meat samples) AT, DE, IT | E (faecal samples), SI, UK | | | | | | |
| ISO 6579:2002 / Amendment 1:20 | | FI (Flocks) | | | | | | | |
| Depend on the laboratory and/or s | | DK | | | | | | | |
| | d inform | ation about monitoring program | | | | | | | |
| No information available No official surveillance programme | e | AT, CY, DE, GR, HU, LT, LU, MT BE, BG, CZ, IT, UK ⁴ | T, PT, SK, ES | | | | | | |
| No turkey production flocks prese | | EE, LV | | | | | | | |

- 1. In Czech Republic, only clinically ill or suspected animals are sampled
- 2. In Denmark, a monitoring programme exists however all turkeys are slaughtered abroad, hence no sampling
- 3. Sample size and frequency depend on slaughterhouse and cutting plant capacity
- 4. In Slovenia, monitoring is based on results from previous years
- 5. In Ireland, private samples by individual plants
- 6. Crushed fresh meat from cleaning tools, tables etc.; similar approach for ducks, geese and guinea fowl
- 7. Monitoring programme in UK is voluntary. All isolations of Salmonella must be reported

Appendix Table SA11. Salmonella monitoring programmes in duck breeders, 2008

| Day old chicks | | Rearing period | | | Production period | | | |
|---|--------------------|--|---|-----------------------|--|---|-----------------|--|
| Sampling scheme following the pr | ovisions of Direct | ive 1992/117/EC | | | • | | | |
| Dead chickens | PL, SK, LT | 4 and 2 weeks before moving | Faecal samples | NO, PL, SK, LT, SE | Every 2 weeks | Dead chickens | PL, SK | |
| Samples from the internal linings of the delivery boxes | NO, PL, SK, LT | | | | Every 2 weeks | Sock samples | NO, SE | |
| Meconium | SE | | | | Every 2 weeks | Faecal samples | LT | |
| Each flock is sampled six times a year in accordance with plan approved by Decision 96/389/EC | IE | | Each flock is sampled six times a year in accordance with plan approved by Decision 96/389/EC | rIE | Official sampling - 3 times during the production period | | NO, SE | |
| | | | | | Official sampling every 8 weeks | Meconium samples at the hatchery | PL, SK | |
| Other schemes | | • | | | | | | |
| Internal lining papers of delivery boxes | FR | At 2, 10 weeks and 2 weeks before moving | On farm: Faecal and litter samples, dust swab | FR ² | Every 2 month | On farm: Faecal and litter samples, dust swab | FR ² | |
| Swabs/faeces | CZ ¹ | | Swabs/faeces | CZ ¹ | | In hatchery: Environmental swab | FR^3 | |
| | | | | | | Swabs/faeces | CZ ¹ | |
| Diagnostic methods used | | | | | | | | |
| ISO 6579:2002 | | CZ, NO, PL, LT, SE (faecal sar | nples) | | | | | |
| NMKL No 71:1999 | | SE (meat samples) | | | | | | |
| Countries not providing detailed in | nformation about r | monitoring programmes | | | | | | |
| No information available | | AT, CY, FI, FR, DE, GR, HU, IE | E, LT, LU, MT, NL, PT, SI, ES | | | · | | |
| No official surveillance programme | | BE, BG, CZ, DK, IT, SI, UK⁴ | | | | | | |
| No duck breeder flocks present | | EE, LV | | | | | | |

^{1.} In Czech Rep., only clinically ill or suspected animals are sampled

^{2.} In France, 1 gauze swab (the sampling method consists in wiping 5 different sites of the poultry house)

^{3.} In France, 1 gauze swab (the sampling method consists in wiping the wall of the hatching cabinets or the lining pads of 5 different hatching trays)

^{4.} In UK monitoring programmes are voluntary. Farmers producing breeders are encouraged to monitor in the same way as for Gallus gallus under Regulation (EC) No 2160/2003. All isolations of Salmonella must be reported

Appendix Table SA12. Salmonella monitoring programmes in geese breeders, 2008

| Day old chicks | | Rearing period | | | Production period | | |
|---|------------------|--|---|-----------------|---|---|-----------------|
| Sampling scheme following the pro | ovisions of Dire | ective 1992/117/EC | | | | | |
| Samples from the internal linings of the delivery boxes | NO, PL, SK | 4 and 2 weeks before moving | Faecal samples | NO, PL, SK, SE | Every 2 weeks | Dead chickens | PL, SK |
| Dead chickens | PL, SK | | | | Every 2 weeks and once in between production cycles | 5 pair of sock samples | NO ¹ |
| Meconium | SE | | | | Every 2nd week | Sock samples | SE |
| | | | | | Official sampling every 8 weeks | Meconium samples at the hatchery | PL, SK |
| Other schemes | | | | | | | |
| Internal lining papers of delivery boxe | s FR | At 2, 10 weeks and 2 weeks before moving | On farm: Faecal and litter samples, dust swab | FR | Every 2 month | On farm: Faecal and litter samples, dust swab | FR |
| Swabs/faeces | CZ ² | | Swabs/faeces | CZ ² | | In hatchery: Environmental swab | FR |
| | | | | | | Swabs/faeces | CZ ² |
| * LT there is no breeding flocks at t | the moment. L | T applies general monito | ring programme for poultry. | | | | |
| ISO 6579:2002 | | CZ, NO, PL, SE | | | | | |
| Countries not providing detailed in | formation abou | ut monitoring programme | es | | | | |
| No information available | | AT, CY, FI, DE, GR, HU, | IE, LT ³ , LU, MT, NL, PT, SI, E | S | | | |
| No official surveillance programme | | BE, BG, CZ, DK, IT, SI, UK ⁴ | | | | | |
| No geese breeder flocks present | | EE, LV | | | | | |

^{1.} Official sampling 3 times during production period

^{2.} In Czech Republic, only clinically ill or suspected animals are sampled

^{3.} In Lithuania there is no breeding flocks at the moment. LT applies general monitoring programme for poultry.

^{4.} In UK monitoring programmes are voluntary. Farmers producing breeders are encouraged to monitor in the same way as for Gallus gallus under Regulation (EC) No 2160/2003. All isolations of Salmonella must be reported

Appendix Table SA13. Salmonella monitoring programmes in ducks and geese – production level, 2008

| Day old chicks | | Posting period and before s | | At slaughter | | |
|---|--------|--|---|--|----------------------|--|
| | | Rearing period and before slaughter | | At Slaughter | | |
| Type of sample | | | | | | |
| Faecal/swabs C | CZ^1 | Faecal samples/ boot swabs | CZ ¹ ,DK ² , NO, SE | Carcass samples | ΙΕ | |
| Sampling based on the Directive F 2003/99/EC | PL | Sampling based on the Directive 2003/99/EC | PL | Sampling based on the Directive 2003/99/EC | PL | |
| | | Cloacal swabs | AT | Neck skin samples | AT ³ , SE | |
| | | | | Faecal samples/ boot swabs | CZ ¹ | |
| Frequency of sampling | | | | | | |
| | | 1 – 3 weeks before slaughter | AT, DK, NO, PL, SE | | | |
| Diagnostic methods used | | | | | | |
| ISO 6579:2002 | | CZ, NO, PL, LT, SE | | | | |
| NMKL No 71:1999 | | SE (neck skin) | | | | |
| Countries not providing detailed in | nfor | mation about monitoring progra | ımmes | | | |
| No information available | | AT, CY, FI, FR, DE, GR, HU, LT, | LU, MT, NL, PT, SK, S | SI, ES | | |
| No official surveillance programme | | BE, BG, CZ, IT, SI, UK ⁴ | | | | |
| No duck and geese production flocks present | 3 | EE, LV | | | | |

- 1. In Czech Republic, only clinically ill or suspected animals are sampled
- 2. In Denmark, from 2007 all flocks are slaughtered abroad hence no sampling at the moment
- 3. In Austria, flocks with positive findings in cloacal swabs (and if the carcasses is not subject to heat-treatment)
- 4. Monitoring programme in the United Kingdom is voluntary. All isolations of Salmonella must be reported

Appendix Table SA14. Salmonella monitoring programmes in pigs, 2008

| Breeding and multiplying herds - at farm | | Fattening herds – at farm | | Fattening herds – at slaughter | | | |
|--|--|---|--|--------------------------------|--|--|--|
| Type of sample | | | | | | | |
| Blood samples | DK | Blood samples | BE ¹ | Meat juice | DK ⁶ , UK ⁷ | | |
| Faecal samples/ boot swabs | CZ, DK ⁴ , EE ³ , FI ³ , NO, SE | Faecal samples/ boot swabs | AT, CZ, DK ⁴ , EE ³ , FI, NL, NO, SE ⁵ | Faecal samples/ boot swabs | CZ, DK ¹ , ES | | |
| Carcass/rectal swabs/litter/feed | SI | Carcass/rectal swabs/litter/feed | | Lymph nodes | EE, BG, FI ¹ , NO ^{1, 2} , SE ¹ | | |
| | | | | Fresh meat | SI | | |
| | | | | Carcass swabs | BE, DK, FI ¹ , NO ^{1, 2} , SE ¹ , EE | | |
| Frequency of sampling | | | | • | | | |
| Monthly | DK | Clinical suspicion | NO, SE, SI, SK | Clinical suspicion | CZ, SE | | |
| Clinical suspicion | CZ, FI, SE, SI, SK | Random samples | NL | Continuous, random samples | BE, BG, DK, EE, ES, FI, NO, SE, SI | | |
| Once a year – all elite herds | FI, NO, SE | | | | -,-,- | | |
| Twice a year - all sow herds | SE | | | | | | |
| Diagnostic methods | | | | | | | |
| Modified ISO 6579 (2002) | | AT, LT, SE (faecal samples) | | | | | |
| ISO 6579 (2002) | | BG, CZ, EE, FI, GR, NL, SI, SK | | | | | |
| Mix ELISA | | DK, UK | | | | | |
| NMKL No 71:1999 | | FI, NO, SE (at slaughter) | | | | | |
| Strategies in countries with no | o official sampling st | rategies | _ | | | | |
| No official monitoring | | BE ⁸ , CY, CZ, GR, IT ⁹ , LV, PL, S | K, LT, UK ⁷ | | | | |

Note: Monitoring is not compulsory by Directive 2003/99/EC.

- 1. Number of samples depends on slaughterhouse capacity or farm capacity.
- 2. In Norway, sows from multiplying herds are sampled in the same way as slaughter pigs at slaughter.
- 3. In Finland and Estonia, all pigs sent to semen collection centres have to be examined for Salmonella with negative results.
- 4. In Denmark, pen feacal sampling is carried out if serological results from the blood samples (breeding and multiplying herds) and meat juice samples (fattening pigs) are too high.
- 5. In Sweden, pen faecal samples herds are affiliated to voluntary heath control program.
- 6. In Denmark, all herds producing more than 200 pigs for slaughter per year are monitored.
- 7. In the United Kingdom, sampling is voluntary. All isolations of Salmonella must be reported.
- 8. In Belgium, samples are collected as part of a monitoring programme for Aujeszky's disease.
- 9. In Italy, a monitoring programme is running in the Veneto Region.

Appendix Table SA15. Measures taken in pig herds in case of Salmonella infections or Salmonella findings, 2008

| Control measures | Countries | | |
|--|---|--|--|
| Serovars covered | | | |
| All Serovars | AT ² , DK, EE ³ , FI, SE, NO, UK (GB), SI | | |
| Only S. Enteritidis, S. Typhimurium | CZ, UK (Northern Ireland) | | |
| Restrictions on the farm | | | |
| Animal movement prohibited | FI, SE, NO, SI ⁴ | | |
| Isolation of Salmonella positive animals | EE, FI, NO, SE, SI ⁴ | | |
| Person contacts restricted | EE, SE, NO, SI ⁴ | | |
| Advise to the farm for controlling the infection | FI, SE, NO, UK, SI ⁴ | | |
| Consequence for slaughter animals | | | |
| Slaughterhouse is informed on positive animals | EE, NO, SE, FI | | |
| Sanitary slaughter | DK ⁵ , EE, FI, NO ⁶ , SE ⁷ | | |
| Contaminated food withdrawn from market | NO, SE | | |
| Treatment with antibiotics | EE, SI | | |
| Other consequences | | | |
| Feedingstuffs are restricted (heat treatment or destruction) | SE, SI | | |
| Treatment of manure / sludge | EE, DK ⁵ , SI ⁴ , SE, NO | | |
| Public health advice | UK | | |
| Cleaning and disinfection obligatory | EE, FI, NO, SI ⁴ , SE | | |
| Repeated negative testing necessary before lifting the restrictions ¹ | EE, FI, SE, NO, SI ⁹ | | |
| Reduction in payment for positive slaughter pigs | DK | | |
| Further investigations | | | |
| Epidemiological investigation is started | BE, DK, EE, FI, NO, SI ⁴ , SE | | |
| Feed suppliers are included in the investigation | DK, EE, FI, NO, SE | | |
| Contact herds are included in the investigation | DK, FI, NO, SE | | |
| Vaccination | 4 | | |
| Permitted | BG, CZ, UK, SI ⁴ | | |
| No vaccination occur | AT, BE ⁸ , DK ⁸ , SE | | |
| Prohibited | EE, FI, NO | | |

Note: No measures fixed in Directive 2003/99/EC

- ${\bf 1.}\ {\bf Typically},\ {\bf two\ consecutive\ samplings\ one\ month\ apart}$
- 2. In Austria, the carcasses contaminated with Salmonella are unfit for human consumption and must be removed. In all slaughtered animals descending from the same holding a post-mortem bacteriological examination has to be initiated
- $3.\ In\ Estonia,\ S.\ Enteritidis,\ S.\ Typhimurium,\ S.\ Dublin,\ S.\ Newport\ and\ S.\ Cholerasuis\ are\ notifiable$
- 4. Measures are taken in case of clinical signs
- 5. In Denmark, herds with a high serological Salmonella index
- 6. In Norway, samples from all sanitary slaughtered animals must be tested for Salmonella. If positive, the carcase is condemned
- 7. In Sweden, samples are collected from all sanitary slaughtered animals
- 8. No vaccine has been approved
- 9. Two consecutive samplings 7 days apart

Appendix Table SA16. Salmonella monitoring programmes in pigs and pig meat, 2008

| | Processing plants | | Pork and pork products at re | lali | | | | |
|--|--|--|---|--|--|--|--|--|
| | | | | | | | | |
| UK⁵ | Surface swabs | HU | Regional programmes | UK (GB) | | | | |
| BE, CZ, DK ¹ , EE ¹ , FI ¹ , DE, NO ¹ , SE ¹ | Depend on survey or own- control plans | DK ² , SE ² | Depend on survey or own-control plans | DK ² , SE ² | | | | |
| EE ¹ , HU ⁴ | Fresh meat | EE, HU⁴, LV | Fresh meat | NL | | | | |
| BG, NO ¹ , SE ¹ , FI, SI | Final product | CZ, EE, IE | Final product | CZ, DE | | | | |
| BE, NO ⁶ | | | Minced meat | AT, BE | | | | |
| | | | Minced meat, meat products, meat preparations (meat from bovine animals and pig) | SI | | | | |
| FI ¹ , NO ^{1,3} , SE ¹ | | | Fresh meat, final products | AT, EE, LV, LT | | | | |
| ES | Not reported | ES | Not reported | ES | | | | |
| | | | | | | | | |
| BG, DK, EE, ES, FI, HU, NO, | Random and continuous | CZ, EE, ES, LV | Random and continuous | AT, CZ, EE, ES, LV, NL, | | | | |
| BE | Follow the Directive 2003/99/I | EC CZ | Weekly | BE | | | | |
| CZ | | | Voluntary | CZ | | | | |
| | .= .= .= | | | | | | | |
| 0.14000 | | | | | | | | |
| Belgian official method SP-VG-M002 | | | | | | | | |
| ISO 6579:2002 | | | | | | | | |
| d/or survey | DK | | | | | | | |
| | | | | | | | | |
| mm. Decision 2003/470 | SE | | | | | | | |
| | BE, CZ, DK ¹ , EE ¹ , FI ¹ , DE, NO ¹ , SE ¹ EE ¹ , HU ⁴ BG, NO ¹ , SE ¹ , FI, SI BE, NO ⁶ FI ¹ , NO ^{1,3} , SE ¹ ES BG, DK, EE, ES, FI, HU, NO, BE CZ | BE, CZ, DK ¹ , EE ¹ , FI ¹ , DE, NO ¹ , SE ¹ EE ¹ , HU ⁴ BG, NO ¹ , SE ¹ , FI, SI BE, NO ⁶ FI ¹ , NO ^{1,3} , SE ¹ ES Not reported BG, DK, EE, ES, FI, HU, NO, BE CZ AT, DE, IT BE BG, CZ, EE, FI, HU, IT, LV, S DK FI, NO, SE SE mm. Decision 2003/470 Depend on survey or own-control plans Fresh meat Final product Fresh meat Final product Follow the Directive 2003/99/I | BE, CZ, DK¹, EE¹, FI¹, DE, NO¹, SE¹ EE¹, HU⁴ BG, NO¹, SE¹ ES Not reported ES BG, DK, EE, ES, FI, HU, NO, BE CZ G-M002 AT, DE, IT BE BG, CZ, EE, FI, HU, IT, LV, SI, SE, ES DK FI, NO, SE SE Depend on survey or own-control plans Fresh meat EE, HU⁴, LV CZ, EE, IE ES Not reported ES CZ AT, DE, IT BE BG, CZ, EE, FI, HU, IT, LV, SI, SE, ES DK FI, NO, SE SE MOSON SE DES DES DES DES DES DES DES | BE, CZ, DK¹, EE¹, FI¹, DE, NO¹, SE¹ EE¹, HU⁴ BG, NO¹, SE¹, FI, SI BE, NO⁶ Not reported BG, DK, EE, ES, FI, HU, NO, BE CZ BG, DK, EE, ES, FI, HU, NO, BE CZ AT, DE, IT BE BG, CZ, DK¹, EE¹, FI¹, DE, Not reported BG, DK, SE¹, FI, BI, NO, SE BG, CZ, EE, FI, HU, NO, BE BG, CZ, EE, FI, HU, IT, LV, SI, SE, ES DK, FI, NO, SE Mot reported AT, DE, IT BE BG, CZ, EE, FI, HU, IT, LV, SI, SE, ES DK FI, NO, SE Mot reported BC, DK, EE, ES, FI, HU, NO, BE BG, CZ, EE, FI, HU, IT, LV, SI, SE, ES DK FI, NO, SE Mot reported Depend on survey or own-control plans Fresh meat Final product Minced meat, meat products, meat products, meat preparations (meat from bovine animals and pig) Fresh meat, final products Minced meat, meat products, meat preparations (meat from bovine animals and pig) Fresh meat, final products CZ, EE, ES, LV Random and continuous Weekly Voluntary | | | | |

Note: Monitoring is not compulsory by Directive 2003/99/EC

In this table priority is given to slaughterhouse sample based approaches; farm based approaches at slaughterhouse may be described in Table SA14

- 1. Sample size and frequency depend on slaughterhouse capacity
- 2. Sampling by local authorities
- 3. Samples collected from cutting equipment, cleaning tools, tables etc.
- 4. In Hungary, sampling strategy is based on the previous years production
- 5. Voluntary monitoring and control scheme in the United Kingdom
- 6. Sampling according to Directive 94/65/EC

Appendix Table SA17. Salmonella monitoring programmes in cattle and bovine meat, 2008

| | eding herds - Cattle - at farms | | Slaughterhouse and cutti | | Processing plants | | Beef at retail | | |
|-------------------|---------------------------------|-----------------------------------|--|---|--|--|-----------------------------------|--|---|
| Type of sai | | Cattle - at lailins | | Slaughterhouse and cutti | ig plant | i rocessing plants | | Deer at retair | |
| Faecal samples | | Faecal samples | DK ¹ , CZ, EE ³ , FI, DE, NL, NO, SE, SK, UK ⁸ | carcass swabs | CZ, DK ² , EE ² , FI ² , LV. NO ² . SE ² | Depend on survey or own-control plans | DK ⁵ , SE ⁵ | Depend on survey or own-control plans | DK ⁵ , SE ⁵ , UK ⁵ |
| | | Bulk milk/Blood samples | DK | Lymph nodes at slaughter | FI ² , NO ² , SE ² | Scrapings | SE | Minced beef | AT, BE, EE, SI |
| | | Organ samples | UK ⁹ | Fresh meat at cutting plants | AT, HU, SI | Fresh meat, minced meat, final products | AT, EE, DE, HU, ES | Fresh meat | NL |
| | | | | Crushed meat samples ⁶ at cutting plants | EE ² ,FI ² , NO ² , SE ² | Final product | CZ, HU | Fresh meat, final products | AT, EE, HU, LT |
| | | | | Faeces (at slaughterhouse) | CZ, DE, ES, SI, SK | | | Final product | CZ, DE |
| | | | | Minced beef | AT, BE | | | Meat preparations,meat products | SI |
| Frequency | of sampl | ing | | | | | | | |
| | - | Every three month | DK | Weekly | BE | | | Weekly | BE |
| | | Once a year Clinical suspicion | NL FI, DE, NO, CZ, SK, SE | Monthly Random and continuous | CZ AT, EE, DK, DE, FI, NO, SE, SI ¹⁰ , ES | Monthly Random and continuous | | Monthly, voluntary Random and continuous | CZ AT, CZ, EE, HU, DE, ES, SI |
| | | | | | CZ, DE | Sampling according to Directive 94/65/EC | NO | | |
| | | | | Clinical suspicion | | | | | |
| Diagnostic | methods | used trough the p | roduction | | | | | | |
| Modified IS | , | (002) | AT, CZ, DE, EE, FI, FR | , HU, IT, SE, SK, SI, ES, LT | | | | | |
| ISO 6579 (2 | 2002) | | CZ, EE, FI, GR, LV, SK | | | | | | |
| Mix-ELISA | | | DK | | | | | | |
| | | d SP-VG-M002 | BE | | | | | | |
| NMKL No 7 | 1:1999 | | FI, NO, SE | | | | | | |
| Other appro | oved meth | ods according to | SE | | | | | | |

Strategies in countries with no official sampling strategies, 2007

No official monitoring BE, BG, CY, CZ, GR, IT⁷, LV⁸, PL, SK, UK⁹

Note: Monitoring is not compulsory by Directive 2003/99/EC

- 1. In Denmark, when requested by the farmer
- 2. Sample size and frequency depend on slaughterhouse and cutting plant capacity
- 3. In Estonia, number of samples depend on herd size
- 4. In Estonia and Finland, all animals sent to semen collection centres have to be examined for Salmonella with negative results
- 5. Sampling by local authorities

Decision 2003/470/EC

- 6. Samples collected from cutting equipment, cleaning tools, tables etc.
- 7. In Italy, a monitoring programme is running in the Veneto Region
- 8. In Latvia no official monitoring at farm level, but samples are collected through an official surveillance at slaughterhouse level.
- 9. In the United Kingdom, sampling is voluntary. Reporting of isolation of Salmonella in all farmed animals is statutory
- 10. Frequency of sampling depends on slaughterhouse and cutting plant capacity

Appendix Table SA18. Measures to take in cattle herds in case of Salmonella infections or Salmonella findings, 2008

| Control mea | sures | Countries | | |
|-----------------|--|---|--|--|
| Serovars cove | ered | | | |
| Α | Il Serovars | AT, DK, EE, FI, NO, SE, UK^{7} , SI | | |
| 0 | nly S. Enteritidis, S. Typhimurium | CZ | | |
| Restrictions of | on the farm | | | |
| А | nimal movement prohibited | FI, DK (Multiresistant S. Typhimurium DT 104), SE, NO, SI ³ | | |
| Is | olation of Salmonella positive animals | EE, FI, NO, SE, SI ³ | | |
| P | erson contacts restricted | EE, NO, SE, SI ³ | | |
| R | estriction on marketing of milk | FI, NO, SE | | |
| P | asteurisation of milk obligatory | EE, FI, NO, SE | | |
| A | dvise to the farm for controlling the infection | DK, FI, NO, SK, SE, UK, SÅ | | |
| • | for slaughter animals | | | |
| | laughterhouse is informed on positive animals | EE, FI, NO, SE | | |
| | anitary slaughter | EE, DK, FI, NO ² , SE ⁴ | | |
| _ | ontaminated food withdrawn from the market | AT, NO, SE | | |
| | estruction of positive animals | DE, SE (in some instances) | | |
| T | reatment with antibiotics | EE, SI ³ | | |
| Other conseq | uences | | | |
| F | eedingstuffs are restricted (heat treatment or destruction) | SK, SE, SI ³ | | |
| T | reatment of manure / sludge | EE, DK, NO, SK, SE, Sl ³ | | |
| С | leaning and disinfection obligatory | EE, FI, NO, SE, SÍ ³ | | |
| R | epeated negative testing necessary before lifting the restrictions 1 | EE, DK, FI, NO, SE | | |
| Р | ublic health advise | UK | | |
| Further invest | tigations | | | |
| E | pidemiological investigation is always started | DK (Multiresistant S. Typhimurium DT 104), EE, FI, NO, SK, SE, UK (Northern Ireland) ⁵ , Sl ³ | | |
| F | eed suppliers are always included in the investigation | EE, FI, NO, SE | | |
| | ontact herds are included in the investigation | DK (Multiresistant S. Typhimurium DT 104), FI, NO, SE | | |
| Vaccination | | | | |
| | ermitted | CZ, DE, UK (GB: S. Dublin), SI | | |
| N | o vaccination occur | AT, BE ⁶ , DK ⁶ , SE | | |
| Р | rohibited | EE, FI, NO | | |

Note: No measures fixed in Directive 2003/99/EC

- 1. Typically, two consecutive samplings one month apart
- 2. In Norway samples from all sanitary slaughtered animals must be tested for Salmonella. If positive, the carcase is condemned
- 3. Measures are taken in case of clinical signs
- 4. In Sweden, all sanitary slaughtered animals are analysed for Salmonella
- 5. In Northern Ireland, when S. Enteritidis, S. Typhimurium is isolated, or any serotype is isolated in milk
- 6. No vaccine has been approved
- 7. Scanning surveillance in the United Kingdom in 2008. All isolations of Salmonella must be reported

Appendix Table SA19. Notification on *Salmonella* in humans (V=Voluntary, O=Other), *Gallus gallus*, other animals and food, 2008.

| J | Notifiable in | Notifiable in Gallus gallus | Notifiable in other animals | Notifiable in |
|----------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| | humans since | since | since | food since |
| Austria | 1947 ^{1, 2} | 1998 ³ | 1994 ⁴ | 1975 |
| Belgium | < 1999 V | 1998 | 1998 | 2004 |
| Bulgaria | yes | 2008 | 2007 | 0 |
| Cyprus | yes | yes | yes | - |
| Czech Republic | yes | yes | yes | - |
| Denmark | 1979 | no | 1993 ⁴ | - |
| Estonia | 1958 | 2000 ⁵ | 2000 ⁵ | 2000 |
| Finland | 1995 ⁶ | 1970's | 1970's | 1970's |
| France | 1986 V | yes ⁷ (1998) | - | yes |
| Germany | yes | = | yes | - |
| Greece | yes | 1992 | 1980 | - |
| Hungary | 1959 | no | no | 1984 |
| Ireland | 1948 | 1996 | 1992 | not notifiable ⁸ |
| Italy | 1990 | 1954 | 1954 | 1962 |
| Latvia | 1958 | yes | yes | 2002 |
| Lithuania | 1962 | yes | yes | - |
| Luxembourg | yes | | 1985 | |
| Malta | yes | - | - | - |
| Netherlands | no ⁹ V | yes | yes | - |
| Poland | 1961 | 1999 ¹⁰ | - | - |
| Portugal | yes | yes | yes | - |
| Romania | yes | | | |
| Slovakia | yes | 2004 | yes ⁴ | 2000 |
| Slovenia | 1949 | 1991 ¹¹ | 1991 ¹¹ | 2003 |
| Spain | 1982 V | 1994 | 1994 | 1994 |
| Sweden | 1968 | 1961 | 1961 | 1961 |
| United Kingdom | no O | 1989 ¹² | 1989 ¹² | no |
| Iceland | yes | | | |
| Liechtenstein | yes | | | |
| Norway | 1975 | 1965 | 1965 | 1995 ¹³ |
| Switzerland | yes | 1966 | 1966 | - |

- 1. In Austria, notifiable since 14 April 1913, re-proclaimed 12 June 1947, adapted on 28 April 1950
- 2. In Austria, clinical cases notifiable since 1996
- 3. In Austria, detection of S. Enteritidis, S. Typhimurium, S. Pullorum and S. Gallinarum notifiable in breeding animals
- 4. Clinical cases notifiable
- 5. In Estonia, S. Enteritidis, S. Typhimurium, S. Dublin, S. Newport and S. Cholerasuis are notifiable
- 6. In Finland, notifiable also before 1995, but legislation changed in 1995
- 7. In France, in breeding flocks and laying hens, S. Enteritidis and S. Typhimurium, only (2006)
- 8. In Ireland, Reportable by FBO to competent authority under SI 154/2004 European Communities (Monitoring of Zoonoses) Regulations 2004
- 9. In the Netherlands, only notifiable if the patient is working in the food industry or horeca, work with treatment or nursing of other persons, or belongs to a group of two or more persons which eat/drink the same food within a period of 24 hours
- 10. In Poland, S. Enteritidis, S. Typhimurium, S. Pullorum and S. Gallinarum are notifiable in poultry
- 11. In Slovenia, the year of independence, however this disease was notifiable before 1991
- 12. Reportable diseases (in animals) are those where there is a statutory requirement to report laboratory confirmed isolation of organisms of the genus *Salmonella* under the Zoonoses Order 1989.
- 13. In Norway, only those detected in the national control programme

Appendix Table CA1. Campylobacter monitoring, surveys and diagnostic methods used for humans animals and food, 2008

| | Human | | ng, surveys and diagnostic meth Gallus gallus | | Broiler meat | | Other food | - |
|----------------------|---------------------------|------------------------------|---|---|--|--|---|--|
| | Sample type | Diagnostic | Sample type | Diagnostic | Sample type | Diagnostic | Sample type | Diagnostic |
| Austria | Faecal | Bacteriology | At slaughter: Caeca | Bacteriology, ISO 10272-1:2006(E) | At slaughter: Carcass. At processing/retail: Fresh and meat products | Bacteriology, ISO 10272-1:2006(E) | Retail: Raw milk, | ISO 10272:1995 or enrichment method |
| | | | Cattle and pig: Colon | Bacteriology (in cattle at first enrichment) | | | | |
| Belgium | - | - | At slaughter: Caeca | • | At slaughter/ processing/ retail: Carcass, cut and meat preparation | SP-VG-M003 (enrichment, bacteriology and PCR) | Pork at slaughter/ processing/ retail: Carcass and minced meat | SP-VG-M003 (enrichment, bacteriology and PCR) |
| Bulgaria | | Bacteriology | At slaughter: Caeca | | At slaughter/processing/ retail: Carcass, cut and meat preparation | | no | no |
| Cyprus | - | - | - | - | - | | - | |
| Czech Republic | - | | At slaughter: Clocal swaps | ISO 10272:1997 | At slaughter: Carcass At processing/retail: Fresh and meat products | ISO 10272:1995 | Retail: Cheeses | ISO 10272:1995 |
| Denmark | Faecal | Bacteriology | At slaughter: Clocal swaps | PCR | At processing/retail: Depends on survey | - | - | - |
| Estonia | Faecal | Bacteriology | At slaughter: Intact caeca | ISO 10272 -1:2006 (E) | At slaughter: Carcass (neck skin at laboratory), Intact caeca At retail: Meat preparation, meat products, minced meat | Slaughter/ processing: ISO 10272-1:2006 | Pig meat and bovine meat at retail | Retail: NMKL 119:1990 |
| Finland | - | Bacteriology | At slaughter: Caeca | NMKL 119:2007 | | | | |
| France | Faecal | Bacteriology | At slaughter: Caeca | w/no enrichment Multiplex PCR | At slaughter: Neck skin | - | - | - |
| Germany | - | | At slaughter: Caeca | ISO 10272 | - | - | - | |
| Greece | - | - | - | - | - | - | - | |
| Hungary | Faecal | Bacteriology | - | - | - | - | - | - |
| Ireland | - | - | Carcass | Bacteriology | l- | - | l- | - |
| Italy | - | - | At slaughter: Cloacal swaps | Bacteriology | 1 | - | - | - |
| Latvia | - | | (Veneto region) At slaughter: Caeca | OIE Manual chapter 2.10.8.B.1. | At slaughter: Fresh meat At retail: Fresh meat | ISO 10272:1995 | - | • |
| Lithaunia | - | Bacteriology | At slaughter: Cloacal and neck skin | Bacteriology | and meat products At processing/retail: Depends on survey | - | - | - |
| Luxembourg | - | - | Meat | Vidas,conf. Bacteriology | Meat | Vidas/bacteriology | Meat | Vidas/bacteriology |
| Netherlands | - | - | - | • | at retail | ISO 10272:2006 | Raw meat at retail; turkey at retail | ISO 10272:2006 |
| Poland | Faecal | Bacteriology | - | - | - | - | - | - |
| Portugal | - | | - | - | - | - | - | ISO 10272, typing b Lior method |
| Romania | | | | | | | | |
| Slovakia Slovenia | Faeces or blood Faecal | Bacteriology Bacteriology | - At slaughter: Caeca ¹ | ISO 10272:1995, modified | - At slaughter: Neck skin ¹ At retail: Fresh meat | ISO 10272:1995 | Pig meat and meat from bovine. At retail: Turkey meat, prepared dishes | ISO 10272 ISO 10272:1995 |
| Spain | - | Bacteriology | Rearing; at farm, before slaughter; at slaughter: Faeces | ISO 10272 | At slaughter/processing/ retail: Fresh meat and skin | ISO 10272:2006 | - | - |
| Sweden | Faeces and blood | Bacteriology | At slaughter: Caeca | ISO 10272 | At retail | NMKL 119:1990 | - | NMKL 119:1990, ISO 10272, PCR |
| United Kingdom | Faecal | Bacteriology | At slaughter: Caeca and neck skin | ISO 10272 | At retail: Fresh refrigerated meat | ISO 10272:1995 | - | - |
| Norway | Faecal | Bacteriology | At the farm, before slaughter: Faeces At slaughter: Caeca | At the farm, before slaughter: PCR At slaughter: NMKL 119:1990 (without enrichment) | At retail: Fresh meat | NMKL 119:1990 | - | - |
| Cuitzorland | | | At also white Classes and | Pantarialami | At rotail: Erook mc -+ | Swine food mar:! | | |
| Switzerland | r | | At slaughter: Cloacal swaps | Bacteriology | At retail: Fresh meat | Swiss food manual | r | |

^{1.} Survey - EU baseline survey

Appendix Table CA2. Notification on *Campylobacter* in humans (V=Voluntary, O=Other), animals and food, 2008

| | Notifiable in | Notifiable in | Notifiable in |
|----------------|----------------|------------------------|-----------------------------|
| | humans since | animals since | food since |
| Austria | 1996 | no | 1975 |
| Belgium | 2000 V | 1998 | 2004 |
| Bulgaria | yes | 1330 | 2004 |
| Cyprus | 2005 | _ | _ |
| Czech Republic | ves | no | yes |
| Denmark | 1979 | no | no |
| Estonia | 1988 | 2000 | yes ¹ |
| Finland | 1995 | 2000 2004 ² | no ³ |
| | 1995 2002 V | 2004 | no |
| France | | - | - |
| Germany | no | - | - |
| Greece | - | no | no |
| Hungary | 1998 | no | no |
| Ireland | 2004 | 1992 | not notifiable ⁴ |
| Italy | 1990 V | no | 1962 |
| Latvia | 1999 | yes | 2004 |
| Lithuania | 1990 | >30 years | = |
| Luxembourg | yes | no | - |
| Malta | yes | - | - |
| Netherlands | yes V | yes | yes |
| Poland | 2004 | - | - |
| Portugal | - | no | - |
| Romania | yes | | |
| Slovakia | 1980's | no | 2000 |
| Slovenia | 1987 | no | 2003 |
| Spain | 1989 V | 1994 | 1994 |
| Sweden | 1989 | no | no |
| United Kingdom | no O | no | no |
| Iceland | yes | | |
| Liechtenstein | yes | | |
| Norway | 1991 | yes ⁵ | yes ⁵ |
| Switzerland | yes | 1966 | no |

^{1.} In Estonia, only C. jejuni

^{2.} In Finland, Campylobacter notifiable in Gallus gallus only

^{3.} In Finland, food business operator has to notify to the competent authority, but there is no central notification system

^{4.} In Ireland, Reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

^{5.} In Norway, only positive samples from ${\it Gallus\ gallus\ }$ detected in the national control programme

Appendix Table LI1. Monitoring programmes and diagnostic methods for Listeria monocytogenes , 2008

| Country | Surveillance | Frequency and type of samples | НАССР | Diagnostic method | Human diagnostic | Survey on cheeses from raw and thermised milk |
|--------------------------|---|--|------------|---|--|--|
| Austria | No monitoring programme. Surveys by the local authorities | - | yes | ISO 11290-1:1996 (E):1996,1998 | Isolation of <i>L. monocytogenes</i> from blood, cerebral spinal fluid, vaginal swabs | - |
| Belgium | Monitoring programme started in 2004 | Fresh meat and final products sampled weekly | - | Afnor validated VIDAS LMO2 followed by a chromogenic medium | - | - |
| Bulgaria | No monitoring programme. | | yes | | | yes |
| Cyprus Czech Republic | - Monitoring according to the Decree of the Ministry of Health No. 132/2004 Coll | - | - yes | - ISO 11290-1:1996 (E):1996,1998 | : | - yes |
| Denmark | No monitoring programme. Surveys by the local authorities | - | - | | Bacteriology | yes |
| Estonia | No monitoring programme. Surveys by the local authorities | Random sampling | - | ISO 11290 | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid | - |
| Finland | Survey on vegetables. | Random sampling | - | ISO 11290-1:1996 (E):1996,1998 | Bacteriological culture | |
| France | Monitoring programme on meat products | Random sampling | yes | Bacteriological culture | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid. | no |
| Germany | Monitoring, surveys and own- control | - | - | - | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid | - |
| Greece | No monitoring programme. Surveys by the local authorities | Routine and target sampling | - | - | - | - |
| Hungary | Monitoring milk products (EU requirements) based on Directive 92/46 | - | - | - | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid | - |
| Ireland | - | - | - | Bacteriological culture | - | - |
| Italy Latvia | No monitoring programme for animals. State surveillance programme for food. | - Random sampling | yes yes | ISO 11290-1:1996 (E):1996,1998 | - Microbiological identification | - |
| Lithuania | - | - | - | - | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid | - |
| Luxembourg | - | Meat +meat products | - | BRD:07/04-09/98+ BRD:07/05-09/01 | - | - |
| Malta Netherlands | Survey on cheese Survey on raw meat; survey on smoked fish | - Random sampling | - | - ISO 11290 | - | - |
| Poland | - | - | - | - | Isolation of L. monocytogenes from blood and cerebral spinal fluid, articular or pericardial fluid | - |
| Portugal | Surveillance in raw milk and milk cheese | - | - | ISO 11290 | - | - |
| Romania Slovakia | No monitoring programme. Surveys by the local authorities | - | - | ISO 11290 | Isolation of L. monocytogenes | - |
| Slovenia | No monitoring programme for animals. Annual monitoring programme for food. In 2008 - sampling of dairy products. | - | yes | ISO 11290-1:1996 ISO 11290-2:1998 (E):1996,1998 | Isolation of L. monocytogenes | yes |
| Spain | - | - | - | | Isolation of <i>L. monocytogenes</i> from a normally sterile site. | - |
| Sweden | No official programme. Surveys by the local authorities | Depend on survey | surveys | NMKL 136:2004, SLO METHOD | Isolation of <i>L. monocytogenes</i> from blood and cerebral spinal fluid | - |
| United Kingdom | | Depend on survey | surveys | BS EN ISO 11290 | culture | yes |
| Norway | No monitoring programme. Surveys. Obligatory own- check of certain products of milk and fish | Depend on survey | yes | NMKL 136 | Isolation of <i>L. monocytogenes</i> from a normally sterile site. | - |

Appendix Table LI2. Notification of Listeria in humans (V=Voluntary), animals and food, 2008

| | Notifiable in | Notifiable in | Notifiable in |
|----------------|-----------------------|--------------------|-----------------------------|
| | humans since | animals since | food since |
| Austria | 1947 ¹ | no | 1975 |
| Belgium | < 1999 ² V | 1998 | 2004 |
| Bulgaria | yes | | |
| Cyprus | 2005 | - | - |
| Czech Republic | yes | no | - |
| Denmark | 1993 | no | - |
| Estonia | 2003 | 2000 | 2000 |
| Finland | 1995 | 1995 ³ | no ⁴ |
| France | 1998 | no | 1994 |
| Germany | yes | yes | - |
| Greece | yes | 1980 | - |
| Hungary | 1998 | no | 2003 |
| Ireland | 2004 | - | not notifiable ⁵ |
| Italy | 1990 | no | 1962 |
| Latvia | 1990 | yes | 2003 |
| Lithuania | 1998 | >30 years | - |
| Luxembourg | yes | no | no |
| Malta | yes | - | - |
| Netherlands | yes V | yes | yes |
| Poland | 1966 | - | - |
| Portugal | - | no | - |
| Romania | yes | | |
| Slovakia | yes | yes | 2000 |
| Slovenia | 1977 | <1991 ⁶ | 2003 |
| Spain | 1982 V | 1994 | 1994 |
| Sweden | 1969 ⁷ | yes | no |
| United Kingdom | yes V | no | no |
| Iceland | yes | | |
| Liechtenstein | yes | | |
| Norway | 1975 | 1965 | no |
| Switzerland | yes | 1966 | - |

^{1.} In Austria, notifiable since 14 April 1913, re-proclaimed 12 June 1947, adapted on 28 April 1950

^{2.} In Belgium, in the Flemish Community

^{3.} In Finland, notifiable also before 1995, but legislation changed in 1995

^{4.} In Finland, food business operator has to notify to the competent authority, but there is no central notification system

^{5.} In Ireland, Reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

^{6.} In Slovenia, the year of independence, however this disease was notifiable before 1991

^{7.} In Sweden, only clinical cases notifiable

Appendix Table TB1. Notification of tuberculosis in humans, *Gallus gallus*, other animals and food, 2008

| animals and food, 2008 | | | | | |
|------------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------------|--|
| | Notifiable in humans since | Notifiable in Gallus gallus since | Notifiable in other animals since | Notifiable in food since | |
| Austria | 1947/2004 ¹ | = | 1909/1999 ¹ | = | |
| Belgium | < 1999 | 1998 | 1963 | 2004 | |
| Bulgaria | yes | | | | |
| Cyprus | 1932 | - | yes (bovine) | - | |
| Czech Republic | yes | yes | yes | - | |
| Denmark | 1905 | 1993 | 1920 ² | - | |
| Estonia | 1950 | 1962 | 1962 | no | |
| Finland | 1995 ³ | 1995 ³ | 1902 | 1902 | |
| France | yes | - | 1934 | = | |
| Germany | yes | yes | yes | - | |
| Greece | yes | - | 1936 (bovine) | - | |
| Hungary | 1946 | no | yes (bovine) | no | |
| Ireland | 1948 | - | 1966 (Cattle), 1992 (Other | not notifiable ⁴ | |
| | | | ruminant animals) | | |
| Italy | 1990 | = | 1954 | 1928 | |
| Latvia | yes | yes | 1927 | - | |
| Lithuania | 1990 | yes | yes | - | |
| Luxembourg | yes | - | 1912 | - | |
| Malta | yes | - | - | - | |
| Netherlands | yes | no | yes | - | |
| Poland | 1919 | = | yes (bovine) | = | |
| Portugal | yes | yes | yes | = | |
| Romania | yes | = | yes(bovine) | = | |
| Slovakia | yes | no | yes | - | |
| Slovenia | 1949 | - | <1991 ⁵ | 2003 | |
| Spain | 1948 | = | 1952 | 1952 | |
| Sweden | >30 years ago | yes | 1897 | - | |
| United Kingdom | yes | no | >1984 ⁶ | - | |
| Iceland | yes | | | | |
| Liechtenstein | yes | | | 7 | |
| Norway | 1900 | 1965 | 1894 | 1894 ⁷ | |
| Switzerland | yes | 1950 | 1950 | = | |

^{1.} In Austria, *M. bovis* notifiable since 2004 in humans and since 1999 in animals, *M. tuberculosis* notifiable since 1947 in humans and since 1909 in animals

^{2.} In Denmark, only clinical cases are notifiable

^{3.} In Finland, notifiable also before 1995, but legislation changed in 1995

^{4.} In Ireland, reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

^{5.} In Slovenia, the year of independence. The disease was notifiable before 1991

^{6.} In The United Kingdom, the first TB Orders were passed in 1913 and 1925 to remove clinically ill cattle. In deer, TB has been notifiable since 1st June 1989. In 2005, TB became notifiable in all mammals except man

^{7.} In Norway, mandatory meat inspection at slaughterhouse

Appendix Table TB-BR1. Status as officially free of bovine brucellosis (OBF), officially free of *B. melitensis* in sheep and goats (ObmF)

and officially free of bovine tuberculosis (OTF)

| and omorany no | 1 | Bovine brucellosis | F | Brucella melitensis | Bovine to | uberculosis |
|----------------|----------------------------------|---|--|---|--|---|
| | OBE ¹ sinc | e Comments | | e Comments | OTF ¹ since | Comments |
| Austria | 1999 | e Comments | 2001 | e Comments | 1999 | Comments |
| | | No conce since 2000 | 2001 | - | 2003 | |
| Belgium | 2003 | No cases since 2000 | 2001 | - | | |
| Bulgaria | no | No cases since 1958 | | For direction was assessed | no | |
| Cyprus | no | Never detected in domestic animals, imported cases in 1921 and 1932 | no | Eradication programme. | - | |
| Czech Republic | 2004 | Eradication programme terminated in 1964 | 2004 | Never detected | 2004 | Eradication programme terminated in 1967 |
| Denmark | 1980 | No cases since 1962 | 1979 | Never detected | 1980 | |
| Estonia | no | No cases since 1961 | no | No cases since 1962, surveillance of breeding herds | | No cases since 1986 |
| Finland | 1994 | No cases since 1960 | 1994 | Never detected | 1994 | No cases since 1982 |
| France | 2005 | - | 2001 (64 departements) | - | 2000 | |
| Germany | 2000 | - | 2000 | - | 1997 | |
| Greece | no | Eradication programme. Thessaloniki area is eradication and vaccination area for Bovine brucellosis, only | no | Eradication programme on Islands, vaccination on the mainland | - | |
| Hungary | no | Declared free by OIE in 1985 | 2004 | Never detected | no | |
| Ireland | no | No confirmed case since April 2006 | 1993 | Never detected | no | |
| Italy | yes (13 provinces and 8 regions) | Vaccination in two areas (Monti Nebrodi in Sicily and Caserta in Campania) | yes (7 provinces and 9 regions) | Vaccination in Sicily | yes (16 provinces and 4 regions) | |
| Latvia | no | No cases since 1963 | no | Never detected | | No cases since 1989 |
| Lithuania | no | Yes, according to OIE demands | no | Yes, according to OIE demands | no | |
| Luxemburg | 1999 | No cases since 1999 | yes | - | 1996 | |
| Malta | no | No cases since 1996 | no | No cases since 1996 | - | |
| Netherlands | 1996 | - | 1993 | Never detected | yes | |
| Poland | no | - | yes | Surveillance of breeding herds, B. melitensis never detected | no | |
| Portugal | 2002 (Azores) | Eradication programme, vaccination in exeptional situations | 2002 (Azores) | Eradication programmes, regional vaccination | no | |
| Romania | | | yes | | | |
| Slovakia | 2005 | | 2004 | Never detected | 2005 | No case since 1992 |
| Slovenia | yes | No cases since 1961 | 2005 | | 2009 | No cases since 1997 |
| Spain | no | Eradication programmes, vaccination in high risk areas | 2001 (Canaries) | Eradication programmes, vaccination in high risk areas | no | |
| Sweden | 1995 | No cases since 1957 | 1994 | - | 1995 | No cases since 1958 |
| United Kingdom | 1985 (GB) | Northern Ireland not officially free | 1991 | Never detected | no | |
| Norway | 1994 | Declared eliminated in 1953 | 1994 | Never detected | 1994 | |
| Switzerland | 1959 | - | 1998 | - | 1959 | |

 $^{1. \} OBF \ and \ OTF \ according \ to \ Directive \ 64/432/EC \ and \ Decision \ 2003/467/EC \ as \ last \ amended \ by \ Decision \ 2007/559/EC$

^{2.} ObmF according to Directive 91/68/EC and Decision 93/52/EC, as last amended by Decision 2007/399/EC

Appendix Table BR1. Notification of Brucella in humans

(V=Voluntary, O=Other), animals and food, 2008

| | Notifiable in | Notifiable in | Notifiable in |
|----------------|---------------------|--------------------|-----------------------------|
| | humans since | animals since | food since |
| Austria | 1947 ¹ | 1957 | 1975 |
| Belgium | < 1999 V | 1978 | 2004 |
| Bulgaria | yes | | |
| Cyprus | 1983 | - | - |
| Czech Republic | yes | yes | - |
| Denmark | no ² | 1920 ³ | = |
| Estonia | 1947 | 1962 | no |
| Finland | 1995 | 1920's | 1920's |
| France | 1960 ⁴ V | 1965 | - |
| Germany | yes | yes | = |
| Greece | = | 1972 | = |
| Hungary | 1950 | 1928 | no |
| Ireland | | | |
| | | 1966 (Cattle), | |
| | | 1992 (Other | |
| | 1948 | ruminant animals) | Not notifiable ⁵ |
| Italy | 1990 V | 1954 | 1929 |
| Latvia | 1974 | 1927 | - |
| Lithuania | 1957 | >30 years | - |
| Luxembourg | yes | 1948 | - |
| Malta | yes | = | = |
| Netherlands | yes V | yes | yes |
| Poland | 1946 | 1951 | = |
| Portugal | - | yes | = |
| Romania | yes | | |
| Slovakia | yes | yes | - |
| Slovenia | 1977 | <1991 ⁶ | 2003 |
| Spain | 1943 V | 1952 | 1952 |
| Sweden | 2004 | yes | no |
| United Kingdom | 1996 ⁷ O | 1971 ⁸ | 1989 |
| Iceland | yes | | |
| Liechtenstein | yes | | |
| Norway | 1975 | 1903 | no |
| Switzerland | yes | 1966 | |

^{1.} In Austria, notifiable since 14 April 1913, re-proclaimed 12 June 1947, adapted on 28 April 1950

- 2. In Denmark, only imported cases registered centrally
- 3. In Denmark, only clinical cases are notifiable
- 4. In France, mainly imported cases
- 5. In Ireland, Reportable by FBO to competent authority under SI 154/2004 European Communities (Monitoring of Zoonoses) Regulations 2004
- 6. In Slovenia, the year of independence. The disease was notifiable before 1991

^{7.} In the United Kingdom, reportable under Reporting of Injuries, Disease and Dangerous Occurrences Regulations – applies to all work related activities but not to all incidents

^{8.} In the United Kingdom organisms of the genus *Brucella* are reportable in animals - ie there is a statutory requirement to report laboratory confirmed isolation of the organism

| Country | RA1. Vaccination programmes for rabies in Vaccination programmes in pets | Vaccination programmes in wildlife |
|----------------|---|--|
| | | |
| Austria | Voluntary vaccination of pets | Since 1991, oral vaccines distributed to foxes twice a year. |
| Bulgaria | Compulsory vaccination of dogs | - |
| Belgium | Compulsory vaccination of dogs and cats in the south and if staying at public campgrounds | Oral vaccines was distributed from 1989 to 2003. |
| Cyprus | Compulsory vaccination of animals entering Cyprus | - |
| Czech Republic | Compulsory vaccination of carnivores in captivity | In 1989, oral vaccination of foxes in some districts. In 2003, covers the whole country except for rabies free districts. Since 2004, vaccination twice a year by air in selected areas, mainly along the border with Poland and Slovakia. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2009. |
| Denmark | - | - |
| Estonia | Compulsory vaccination of dogs and cats | In autumn 2005 oral vaccination of wildlife in the Northern part of the country. Since 2006 oral vaccines distributed to foxes twice a year by airplane. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2011. |
| Finland | | Since 1991, oral vaccines distributed to foxes and raccoon dogs twice a year along the Russian border by flight. Since 2004, oral vaccines distributed to foxes twice a year. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2010. |
| France | - | - |
| Germany | Voluntary vaccination of pets, compulsory vaccination of animals used for hunting | Oral vaccines distributed to foxes twice a year in endemic areas. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2009. |
| Greece | Compulsory vaccination of dogs and cats | - |
| Hungary | Compulsory vaccination of dogs, voluntay vaccination of cats | Since 2004, oral vaccines distributed to foxes twice a year by flight. The programme started in 1997. |
| Ireland | - | - |
| Italy | Compulsary vaccination of dogs in infected municipalities | Oral vaccines distributed to foxes in the Region Friuli Venezia Giulia |
| Latvia | Compulsory vaccination of dogs, cats and pet ferrets | Since 1998, oral vaccines distributed to foxes and raccoon dogs twice a year, from 2005, by flight. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2010. |
| Lithuania | Compulsory vaccination of dogs and cats | Since 1995, Oral vaccines distributed to foxes twice a year by flight. |
| Luxembourg | - · · · · · · · · · · · · · · · · · · · | - |
| Malta | - | - |
| Netherlands | - | - |
| Poland | Vaccination programme for dogs since 1949 | Since 2002, oral vaccines distributed to foxes twice a year by flight. |
| Portugal | Compulsory vaccination of dogs since 1925 | - |
| Romania | Compulsory vaccination of dogs and cats | In 2006, oral vaccines was distributed manually in restricted areas |
| Slovakia | Compulsory vaccination of domestic carnivores | Since 1994, oral vaccines distributed to foxes twice a year by flight. |
| Slovenia | Compulsory vaccination of dogs since 1947 | Oral vaccines distributed to foxes twice a year by flight. The programme is approved and co-financed by EU (Decision 2007/782/EC) for 2008-2012. |
| Spain | Compulsory vaccination dogs in 10 regions, Ceuta and Melilla. Voluntary in the remaining of the country | From 2004, compulsory surveillance according to Directive 2003/99/EC |
| Sweden | Vaccination of dogs and cats being brought in and out of the country | - |
| United Kingdom | Vaccination is permitted those animals being exported, and those undergoing quarantine | - |
| Norway | Vaccination of dogs and cats being brought in and out of the country | - |
| Switzerland | Compulsory vaccination of dogs brought in to the country from countries not free from rabies | - |

Appendix Table RA2. Type of samples and diagnostic methods used when diagnosing rabies in humans and animals, 2008

| | Humans Type of sample | Diagnostic test | Animals Type of sample | Diagnostic test |
|-----------------------|--|--|------------------------|--|
| Austria | Liquor, smears from pharynx, swab from conjuntivae, biopsy at the nape of the neck and serum | FAT, immunohistochemistry, RT-PCR | Brain | Fluorescent antibody test (FAT), rabies tissue culture infection test (RT-CIT). Mouse inoculation test (MIT) |
| Belgium | Blood, cerebrospinal fluid, saliva, post mortem brain tissue | Antigen detection, Virus isolation in neuroblastoma cells, RT-PCR, Virus isolation in mice; Rapid Fluorescent Focus Inhibition test RFFIT. | Brain | FAT, virus cultivation in neurobast |
| Bulgaria | - | - | | Direct immune-flourescent test (IFT) |
| Cyprus | - | - | Brain | Hellers stain |
| Czech Republic | - | - | Brain | FAT |
| Denmark | Blood samples, skin biopsy from neck | - | Brain | FAT, virus isolation |
| Estonia | - | - | Brain | FAT |
| Finland | - | Human: cultivation, serology, antigentest, direct microscopy. | Brain | FAT, cell culture, RT-PCR |
| France | Cerebrospinal fluid, blood, saliva, if post-mortem: brain tissue | PCR, FAT, immunohistochemistry, direct microscopy, RFFIT | Brain | FAT, cell culture, RT-PCR, MIT, FAVN |
| Germany | - | - | - | FAT, cell culture |
| Greece | - | - | - | - |
| Hungary | Cerebrospinal fluid, blood | In vivo from cornea imprint of the patient by immunofluorescence method, or determination of specific antibody titre of the blood or liquor by immunofluorescence method during the second week of the illness. Post mortem: detection of the Negri-body in the brain tissue, or the antigen by immunofluorescence method, or identification of the viral genetic material by PCR, or isolation of the virus in mouse. | | |
| Ireland | - | - | - | - |
| Italy | Cerebrospinal fluid, liquor, saliva, blood, brain tissue | FAT, TCIT, RT-PCR | Brain | FAT, TCIT, RT-PCR |
| Latvia | - | Elisa | Brain | FAT, MIT |
| Lithuania | Cerebrospinal fluid, saliva | Isolation of virus, antigen detection, mouse inoculation test, ELISA, PCR. | - | - |
| Luxembourg | - | - | Brain | FAT, virus isolation (by sub- contractance) |
| Malta | - | - | - | - |
| Netherlands | - | - | - | - |
| Poland | Cerebrospinal fluid, blood, saliva, if post-mortem: brain tissue | FAT, RT-PCR, MIT, RFFIT | Brain | FAT, MIT, RFFIT |
| Portugal Romania | - | - | - | Direct immune-flourescent test (IFT) |
| Slovakia | Cerebrospinal fluid, saliva, serum, brain tissue | Isolation of virus, antigen detection, detection of virus nucleic acids, virus neutralization assay | Brain | FAT, ELISA, RT-PCR, MIT, FAVN |
| Slovenia | Cerebrospinal fluid, saliva, if post-mortem: brain tissue | Serology, isolation on cell cultures, mouse inoculation test, RT-PCR, FAT | Brain | Serology, isolation on cell cultures, mouse inoculation test, RT-PCR, FAT |
| Spain | Cerebrospinal fluid, blood, skin biopsy from neck. | FAT, RFFIT, MIT, PCR | Brain tissue/blood | FAT, ELISA |
| Sweden | Serum, CSF | Serology, antigen detection, isolation of virus, PCR | Brain tissue | FAT, MIT, PCR, virus isolation |
| | Cerebrospinal fluid, blood, | Serology, antigen detection, isolation of | Brain tissue | FAT, MIT, histology, PCR |
| United Kingdom | saliva | virus | | |
| United Kingdom Norway | saliva Cerebrospinal fluid, serum, if post-mortem: brain tissue | | Brain tissue | FAT, RT-PCR |

Appendix Table RA3. Notification of rabies in humans (O=Other) and animals, and Official Rabies Free status, 2008

| | Notifiable in humans since | Last indigenous case | Notifiable in animals since | Last case | Rabies status | Since |
|----------------|----------------------------|----------------------|-----------------------------|-------------------------|---|-------|
| Austria | 1947 | | 1957 | | | |
| Belgium | <1999 | 1923 | 1883 | 1999 | Declared itself free from rabies ¹ | 2001 |
| Bulgaria | yes | | - | | | |
| Cyprus | 2004 | <1976 | yes | <1976 | Rabies free | |
| Czech Republic | yes | | 1999 | 2002 | Declared itself free from rabies ¹ | 2005 |
| Denmark | 1964 | | 1920 | 1982 (classical rabies) | | |
| Estonia | 1946 | 1987 | 1950 | 2008 | | |
| Finland | 1995 | | 1922 | 1989 | Declared itself free from rabies ¹ | 1991 |
| France | yes | | yes | | Declared itself free from rabies ¹ | 2001 |
| Germany | yes | | yes | | | |
| Greece | yes | 1970 | 1936 | 1987 | Rabies free | |
| Hungary | 1950 | | 1928 | | | |
| Ireland | 1976 | | - | | Declared itself free from rabies ¹ | |
| Italy | 1990 | 1968 | 1954 | 2008 | Rabies free | 1997 |
| Latvia | 1974 | 2003 | yes | | | |
| Lithuania | 1957 | | <1975 | | | |
| Luxembourg | yes | | - | | Declared itself free from rabies ¹ | 2003 |
| Malta | yes | | _ | | Rabies free since 1911 | |
| Netherlands | yes | | yes (dogs) | | | |
| Poland | 1919 | | 1927 | | | |
| Portugal | yes | | 1953 | 1961 | | |
| Romania | yes | | - | | | |
| Slovakia | yes | 1990 | 1950 | 2006 | | |
| Slovenia | 1949 | 1950 | <1991 ² | 1950 | | |
| Spain | 1901 | 1975 | 1952 | 1978 ³ | The mainland and islands are considered rabies free | |
| Sweden | <1975 | 1886 | yes | 1886 | Rabies free since 1886 | |
| United Kingdom | yes O | 1902 | yes | 1922 ⁵ | Declared itself free from rabies ¹ | |
| Iceland | yes | | | | 145100 | |
| Liechtenstein | yes | | | | | |
| Norway | 1975 | 1815 | 1965 | 1999 ⁴ | Declared itself free from | |
| , | | | | | rabies (the mainland) ¹ | 1998 |
| Switzerland | 1952 | 1974 | 1952 | 1996 | Declared itself free from rabies 1 | |

^{1.} According the criteria set up by OIE; where a country with no new cases of rabies during a two year period may declare itself free from rabies. The criteria exclude European Bat Lyssavirus

^{2.} In Slovenia, the year of independence, however, this disease was notifiable before 1991

^{3.} In Spain, the mainland and islands not Ceuta and Melilla

^{4.} In Norway, in the archipelago fo Svalbard

Appendix Table VT1. Notification of VTEC in humans (V=Voluntary, O=Other), animals and food, 2008

| | Notifiable in | Notifiable in | Notifiable in |
|----------------|----------------------|--------------------|-----------------------------|
| | humans since | animals since | food since |
| Austria | 1950 ^{1, 2} | no | 1975 |
| Belgium | < 1999 V | 2005 | 2004 |
| Bulgaria | yes | | |
| Cyprus | 2005 (EHEC) | = | = |
| Czech Republic | = | no | = |
| Denmark | 2000 + | no | - |
| | HUS (EHEC) | | |
| Estonia | 1958 (EHEC) | 2000 | 2000 |
| Finland | 1998 | 2004 ³ | no⁴ |
| France | 1996 (HUS) V | - | _5 |
| Germany | yes | - | - |
| Greece | yes (EHEC) | - | - |
| Hungary | 1998 | no | - |
| Ireland | 2004 (EHEC) | - | not notifiable ⁶ |
| Italy | 1990 V | no | 1962 |
| Latvia | 1999 | yes ⁷ | 2004 |
| Lithuania | 2004 | >30 years | - |
| Luxembourg | yes V | no | no |
| Malta | yes | - | - |
| Netherlands | yes | no | yes |
| Poland | 2004 | - | - |
| Portugal | - | - | - |
| Romania | yes | | |
| Slovakia | yes | no | 2000 |
| Slovenia | 1995 | no | 2003 |
| Spain | 1989 ⁸ V | 1994 | 1994 |
| Sweden | 2004 ⁹ | 1996 ¹⁰ | no |
| United Kingdom | no O | no | no |
| Iceland | yes | | |
| Liechtenstein | - | | |
| Norway | 1995 | no ¹¹ | no ¹¹ |
| Switzerland | 1999 | no | - |

- 1. In Austria, notifiable since 14 April 1913, re-proclaimed 12 June 1947, adapted on 28 April 1950
- 2. In Austria, clinical cases notifiable since 1996
- 3. In Finland, only notifiable in cattle
- 4. In Finland, food business operator has to notify to the competent authority, but there is no central notification system
- 5. In France, the food business operators have to notify the competent authority when
- 6. In Ireland, Reportable by FBO to competent authority under SI 154/2004 European Communities (Monitoring of Zoonoses) Regulations 2004
- 7. In Latvia, only clinical cases notifiable
- 8. In Spain, Microbiological information System
- 9. In Sweden, VTEC O157 infection have been notifiable since 1996, since 2004 all clinical VTEC have been notifiable
- 10. In Sweden, infections with VTEC notifiable since 1996. Since 1999 findings of VTEC associated with human cases of EHEC notifiable.
- 11. Notification required when further transmission to humans is suspected or has occurred

Appendix Table YE1. Notification on *Yersinia* in humans (V=Voluntary, O=Other), animals and food, 2008

| (v = v Ordinary, t | D=Other), anima Notifiable in | Notifiable in | Notifiable in |
|--------------------|----------------------------------|------------------|-----------------------------|
| | humans since | animals since | food since |
| Austria | 1947 ^{1,2} | no | 1975 |
| Belgium | <1999 ³ V | 1998 | 2004 |
| Bulgaria | yes | | |
| Cyprus | 2005 ⁴ | - | - |
| Czech Republic | yes | no | - |
| Denmark | 1979 | no | - |
| Estonia | 1982 | no | 2000 |
| Finland | 1995 | no | no ⁵ |
| France | yes V | - | - |
| Germany | yes | - | - |
| Greece | - | - | = |
| Hungary | 1998 | no | = |
| Ireland | 2004 | 1992 | not notifiable ⁶ |
| Italy | 1990 V | no | 1962 |
| Latvia | 1988 | yes ⁷ | - |
| Lithuania | 1985 | >30 years | - |
| Luxembourg | yes | no | no |
| Malta | yes | - | - |
| Netherlands | - | yes | yes |
| Romania | yes | | |
| Poland | 2004 | - | no |
| Portugal | - | no | - |
| Slovakia | yes | no | 2000 |
| Slovenia | 1977 | no | 2003 |
| Spain | 1989 ⁸ V | 1994 | 1994 |
| Sweden | 1996 | no | no |
| United Kingdom | no O | no | no |
| Iceland | - | | |
| Liechtenstein | yes | | |
| Norway | 1992 | no | no |
| Switzerland | yes | 1966 | - |

^{1.} In Austria, notifiable since 14 April 1913, re-proclaimed 12 June 1947, adapted on 28 April 1950

^{2.} In Austria, clinical cases notifiable since 1996

^{3.} In Belgium, in the Flemish Community

^{4.} In Cyprus, notifiable since January 2005

^{5.} In Finland, food business operator has to notify to the competent authority, but there is no central notification system

^{6.} In Ireland, Reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

^{7.} In Latvia, only clinical cases are notifiable

^{8.} In Spain, Microbiological Information System

Appendix Table TR1. Diagnostic methods and monitoring programmes for Trichinella, 2008

| Appendix rable | Humans | Animals | Animals - monitoring programmes | |
|----------------|--|--|--|---|
| | Diagnostic methods | Animals Diagnostic methods | Animals - monitoring programmes Meat inspection at slaughter | Other monitoring |
| Austria | Serology (ELISA), Western Blot | Regulation (EC) No 2075/2005 | Pigs, horses, farmed wild boars | Wild boars: monitoring scheme |
| | · | | - | |
| Belgium | Serology (ELISA), histopathology | Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Bulgaria | | Compression method | Pigs, horses, wild boars, bears, badgers | - |
| Cyprus | EU recommendations | Directive 77/96/EC (digestion method) | Pigs (started in 2004, 80% examined) | - |
| Czech Republic | - | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Denmark | Serology, histopathology | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs and horses slaughtered at export approved slaughterhouses, all wild boars | - |
| Estonia | Clinical symptoms, eosinophilia | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Finland | Serology, histopathology | Regulation (EC) No 2075/2005 | Pigs, horses, wild boars, bears | Continuous wildlife monitoring programme covering foxes, raccoon dogs, mustelids, lynxes and wolves |
| France | Serology, histopathology | Digestion method | Pigs, horses | Wild boars: sampling are carried out as a survey |
| Germany | Serology (ELISA), histopathology | Directive 77/96/EC (digestion or compression method) and PCR | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Greece | - | Directive 77/96/EC (digestion or compression method) | Pigs | - |
| Hungary | Serology (ELISA), histopathology, Western Blot | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Ireland | - | Pepsin digest method according to Regulation (EC) No 2075/2006 | Pigs, horses, farmed wild boars | Wildlife monitoring programme covering foxes, badgers and rodents |
| Italy | - | Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Wildlife monitoring programme covering foxes, mustilids and othre carnivores including birds of prey |
| Latvia | Serology (ELISA) | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Slaughtering at home is allowed only for personal consumption. In this case the owner is responsible for ensuring control |
| Lithuania | Serology, (ELISA) | - | - | - |
| Luxembourg | - | Regulation (EC) No 2075/2005 (digestion method) | Pigs, horses, wild boars | |
| Malta | - | Compression method | Horses | Pigs: random on the slaughter line |
| Netherlands | - | Directive 77/96/EC (digestion method) | Pigs, horses | c c |
| Poland | Serology and histopathology | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | - |
| Portugal | - | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Priority: wild boar, breeding pigs and pigs not raised under controlled housing condition |
| Romania | Serology, (ELISA) | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | - |
| Slovakia | Serology, histopathology | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant |
| Slovenia | Serology, histopathology | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Other wildlife monitored when relevant. Testing of pigs slaughtered on the holding of origin for private domestic consumption is not mandatory |
| Spain | Decision no. 2002/253/EC - serology, histopathology | Pepsin digest and compression method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars | Home slaughtering. Other wildlife monitored when relevant |
| Sweden | Serology (ELISA/IFL) | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, wild boars, bears | Survey of approx. 300 foxes annually, other wildlife monitored when relevant |
| United Kingdom | Histopathology | Pepsin digest method according to Regulation (EC) No 2075/2005 | Pigs, horses, farmed wild boars | Foxes, approximately 400-700 annually |
| Norway | Serology and histopathology | Directive 77/96/EC (digestion or compression method) | Pigs, horses, wild boars, bears | Wildlife and farmed foxes occasionally |
| Switzerland | - | Directive 77/96/EC (digestion method) | Pigs, horses, wild boars | Survey of foxes in 2006-2007, other wildlife monitored when relevant |

Appendix Table TR2. Notification of *Trichinella* in humans (V=Voluntary), animals and food, 2008

| | Notifiable in humans since | Notifiable in animals since | | Notifiable in food since |
|----------------|----------------------------|-------------------------------|--|-----------------------------|
| Austria | 1950 | 1994 | Pigs, horses, wild boars, | 1994 |
| Belgium | <1999 ¹ V | 1998 | - | 2004 |
| Bulgaria | yes | | | |
| Cyprus | 2005 | yes | Pigs | - |
| Czech Republic | yes | yes | Pigs, horses, wild boars, other wildlife | - |
| Denmark | - | 1920 ² | Pigs, horses, wild boars | - |
| Estonia | 1945 | 2000 | Pig, horses, wild boars, other wildlife | 2000 |
| Finland | 1995 | 1930 | Pigs, horses, farmed and wild game | 1930 |
| France | 2000 V | - | Pig, horses, wild boars | <1990 |
| Germany | yes | yes | Pig, horses, wild boars, other wildlife | - |
| Greece | yes | 1980 | Pigs | 1977 |
| Hungary | 1960 | no | Pigs, horses, nutria, wild boars | 1984 |
| Ireland | 2004 | yes | Pigs, horses, wild boars, other wildlife | not notifiable ³ |
| Italy | 1990 | 1958 (pigs), 1994 (horses) | Pigs, horses, wild boars | 1958 |
| Latvia | 1988 | yes | Pigs, horses, wild boars | - |
| Lithuania | 1990 | >30 years | - | - |
| Luxembourg | yes | 1947 | Pigs, horses, wild boar, | - |
| Malta | yes | - | Pigs (random), horses | - |
| Netherlands | yes | yes | Pigs, horses, wild boars | - |
| Poland | 1919 | 1928 | Pigs, horses, wild boars | - |
| Portugal | yes | 1953 | Pigs | yes |
| Romania | yes | | | |
| Slovakia | yes | yes | All animals for human consumption | 2000 |
| Slovenia | 1977 | 1991 | Pigs, horses, wild boars, bears | 2003 |
| Spain | 1982 | 1952 | Pigs, wild boars | 1952 |
| Sweden | > 30 years | >50 years | Pigs, horses, wild boars, bears | >50 years |
| United Kingdom | yes V | 1980 | Pigs, horses | yes |
| Iceland | - | | _ | |
| Liechtenstein | yes | | | |
| Norway | 1975 | 1965 | Pigs, horses, wild boars, bears | 1965 |
| Switzerland | no | 1966 | Pigs, horses | no |

^{1.} In Belgium, the Flemish Community

Note: Directive 64/433/EC and/or Directive 77/96/EC were no longer in force in 2006. Replaced by Regulation (EC) No 2075/2005

^{2.} In Denmark, only clinical cases are notifiable

^{3.} In Ireland, reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

Appendix Table EH1. Echinococcus monitoring programmes and diagnostic methods in humans and/or animals, 200

| Country | Type of data | Diagnostic methods | Monitoring, treatment etc. |
|----------------|------------------------------|--|---|
| Austria | Laboratory confirmed | Humans: ELISA, Western blot. | Foxes tested on request |
| | | Animals: Histopathology, ultrasound, X | |
| | | ray, computed tomography, serology | |
| | | or combo serology DNA (PCR) | |
| Belgium | Laboratory confirmed | Humans: E. granulosus: ELISA and | Information campaign in wooded areas about |
| | | IHA, E. multilocularis ELISA | consumption of berries |
| | | Animals: visual examination of organs, | |
| | | microscopic examination of mucosal scrapings of the gut | |
| Bulgaria | | | |
| Cyprus | - | - | Scheme to treat dogs and stray dogs with Pranziquantel |
| Czech Republic | - | - | A monitoring programme for Echinococcus in |
| | | | foxes was introduced in 2005. Samples are |
| | | | taken from foxes hunted for control of vaccination efficiency against Rabies. |
| Denmark | Laboratory confirmed | Humans: Abdominal CT Scan, | - |
| | , | serology, histopathology | |
| Estonia | Laboratory confirmed | Histopathology, serology | - |
| Finland | Laboratory confirmed | Humans: Serology, histopatology. | Treatment required for dogs and cats |
| | | Animals: copro-ELISA, copro-PCR, | imported for countries other than Sweden, |
| | | PCR, visual examination of organs | Norway (other parts than Spitsbergen), |
| | | | United kingdom and Ireland and animals less |
| | | | than three months old entering from MS, |
| | | | recommended for hunting dogs before and |
| | | | after hunting season. Continuous |
| | | | surveillance for Echinococcus in foxes and |
| | | | raccoon dogs. |
| France | Voluntary reporting | | A survey on Echinococcus multilocularis in |
| | | Intestines> Scrapping and | foxes. Faecal samples analysis. |
| | | sedimentation | |
| | | Humans : ELISA, Western blot, | |
| Germany | | histopathology, X-ray | |
| Greece | | - Humans: X-ray, echo and serological | |
| Oleece | | investigation | |
| Hungary | Laboratory confirmed | Western blot | - |
| Ireland | - | - | - |
| Italy | - | - | - |
| Latvia | Laboratory confirmed/monthly | Serology | Macroscopic investigation on hydatic cysts at |
| | | | the abbatoir is a part of the meat inspection |
| | | | procedure. Treatment with an anti-helmintic |
| | | | drugs is recommended in the final hosts - |
| Lithuania | Laboratory confirmed | Serology (ELISA and Western blot), | dogs and cats. |
| | | Histopathology, imaging | |
| Luxembourg | Laboratory confirmed | Foxes: Microscopical diagnostic and | Foxes tested on request |
| Ŭ | • | PCR in feces | • |
| | | Other animals: Inspection at | |
| | | slaughterhouse | |
| Malta | - | - | - |
| Netherlands | Laboratory confirmed | Serology | - |
| Poland | Laboratory confirmed | Serology (ELISA and Western blot) | |
| | | and histopathology | - |
| Portugal | - | | 3 regions have a programme running where |
| Romania | | | dogs are dewormed |
| Slovakia | Laboratory confirmed | Humans: Serology and histopathology | _ |
| J.JYUNU | Lazoratory committee | nano. corology and motopathology | |
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| Slovenia | Laboratory confirmed | Humans: Serology, Rtg, CT Scan, MR | Visual examination of the slaughtered/killed animal and its organs, and palpation of the liver. Systematic dehelminthisation of dogs along with anti-rabies vaccination. |
|----------------|--|---|---|
| Spain | Laboratory confirmed, passive case finding | According to Decision 2119/98/EC, Decision 2002/253/EC and Decision 2002/243/EC | Control infection in animals and meat inspection |
| Sweden | Laboratory confirmed, passive case finding | Humans: Copro-ELISA, copro-PCR, PCT, visual examination of organs. | Since 2001, an annual investigation of 300- 400 foxes. Anthelmintic treatment required for dogs imported from countries other than Finland and Norway |
| United Kingdom | Voluntary reporting | - | Treatment for imported dogs and cats. Regional deworming programme. Abattoir testing |
| Norway | Laboratory confirmed | Humans: Serology, Histopathology. Animals: PCR, egg detection, histopathology | Anthelmintic treatment required for dogs imported from countries other than Finland and Sweden. Mandatory meat inspection for hydatid cysts, survey of <i>E. multilocularis</i> in foxes. |
| Switzerland | - | - | - |

Appendix Table EH2. Notification of *Echinococcus* in humans (V=Voluntary), animals and food, 2008

| | Notifiable in Notifiable in | | Notifiable in | |
|----------------|-----------------------------|-------------------|-----------------------------|--|
| | humans since | animals since | food since | |
| Austria | 2004 | 1994 | 1994 | |
| Belgium | < 1999 V | 1998 | 2004 | |
| Bulgaria | yes | - | - | |
| Cyprus | 1969 | - | - | |
| Czech Republic | yes | no | - | |
| Denmark | = | yes | - | |
| Estonia | 1986 | 2000 | 2000 | |
| Finland | 1995 | 1995 ¹ | 1995 ¹ | |
| France | yes V | no | - | |
| Germany | yes | - | - | |
| Greece | yes | 1980 | | |
| Hungary | 1960 | no | 1984 | |
| Ireland | 2004 | = | not notifiable ² | |
| Italy | - | yes | 1964 | |
| Latvia | 1999 | yes | - | |
| Lithuania | 1990 | yes | - | |
| Luxemburg | yes | no | - | |
| Malta | yes | - | - | |
| Netherlands | no | yes | yes | |
| Poland | 1959/1997 ³ | - | - | |
| Portugal | yes | yes | - | |
| Romania | yes | | | |
| Slovakia | yes | yes ⁴ | no | |
| Slovenia | 1977 | 1991 ⁵ | 2003 | |
| Spain | 1982 | 1994 | 1994 | |
| Sweden | 2004 | >30 years | >30 years | |
| United Kingdom | yes V | no | no | |
| Iceland | - | | | |
| Liechtenstein | yes | | | |
| Norway | 2003 | 1985 | 1965 ⁶ | |
| Switzerland | no | 1966 | = | |

^{1.} In Finland, notifiable also before 1995, but legislation changed in 1995

^{2.} In Ireland, Reportable by FBO to competent authority under SI 154/2004 - European Communities (Monitoring of Zoonoses) Regulations 2004

^{3.} In Poland, from 1959 registered together with other tapeworms, from 1997 reported separately $\,$

^{4.} In Slovakia, only clinical cases

^{5.} In Slovenia, the year of independence, however this disease was notifiable before 1991

^{6.} Mandatory meat inspection for hydatid cysts.

Appendix Table PO1. Human population (x100), 2006-2008

| | 2008 | 2007 | 2006 |
|----------------|-----------|-----------|-----------|
| Austria | 83,319 | 82,989 | 82,659 |
| Belgium | 106,669 | 105,845 | 105,114 |
| Bulgaria | 76,402 | 76,793 | 77,188 |
| Cyprus | 7,946 | 7,787 | 7,664 |
| Czech Republic | 103,811 | 102,872 | 102,511 |
| Denmark | 54,758 | 54,471 | 54,275 |
| Estonia | 13,409 | 13,424 | 13,447 |
| Finland | 53,005 | 52,770 | 52,556 |
| France | 637,531 | 633,921 | 629,988 |
| Germany | 822,218 | 823,149 | 824,380 |
| Greece | 112,150 | 111,717 | 111,252 |
| Hungary | 100,450 | 100,662 | 100,766 |
| Ireland | 44,199 | 43,125 | 42,090 |
| Italy | 596,181 | 591,313 | 587,517 |
| Latvia | 22,709 | 22,813 | 22,946 |
| Lithuania | 33,664 | 33,849 | 34,033 |
| Luxembourg | 4,838 | 4,762 | 4,691 |
| Malta | 4,106 | 4,078 | 4,050 |
| Netherlands | 164,043 | 163,580 | 163,342 |
| Poland | 381,156 | 381,255 | 381,571 |
| Portugal | 106,176 | 105,991 | 105,696 |
| Romania | 215,286 | 215,651 | 216,102 |
| Slovakia | 54,010 | 53,936 | 53,892 |
| Slovenia | 20,259 | 20,104 | 20,034 |
| Spain | 452,833 | 444,746 | 437,583 |
| Sweden | 91,829 | 91,133 | 90,478 |
| United Kingdom | 611,860 | 608,167 | 603,931 |
| EU total | 4,974,817 | 4,950,903 | 4,929,752 |
| Norway | 47,372 | 46,811 | 46,402 |
| Switzerland | 75,914 | 75,087 | 74,591 |

Reference: Eurostat