

Results: residues testing programmes - 2004

Results of the residues testing programmes for banned and veterinary medicines for 2004 are listed below.

Shellfish testing results for marine biotoxins are held by the Food Standards Agency, Northern Ireland.

National Surveillance Scheme 2004 results

- [Red Meat](#)
- [Poultry](#)
- [Eggs](#)
- [Milk](#)
- [Fish](#)
- [Targeted sampling – all species](#)
- [Other testing – all species](#)

Red meat

Sampling plan	Production forecast (nos)	% Sampled	Group A substances	Group B substances
Cattle	403,667	0.40%	0.25% (0.125% on farm)	0.15%
Sheep & goats	547,644	0.05%	0.01%	0.04%
Pigs	926,495	0.05%	0.02% (1 on farm per 100,000slaughtered)	0.03%

Group A = hormones and banned substances. **Group B** = veterinary medicines and contaminants
See Council Directive 96/23/EC for information on the allocation of samples to subgroups
[Council Directive 96/23/EC](#)

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle urine OF	A1	DES, Hexoestrol, Dienoestrol	24	24	-	
Cattle urine SH	A1	DES, Hexoestrol, Dienoestrol	40	40	-	
Pig urine SH	A1	DES, Hexoestrol, Dienoestrol	9	9	-	
Sheep urine SH	A1	DES, Hexoestrol, Dienoestrol	3	3	-	
Cattle serum OF	A2	Thyreostats	26	26	-	
Cattle thyroid SH	A2	Thyreostats	26	26	-	
Pig thyroid SH	A2	Thyreostats	8	8	-	
Sheep thyroid SH	A2	Thyreostats	3	3	-	
Cattle serum OF	A3	Oestradiol	40	40	-	
Cattle(M) serum SH	A3	Oestradiol	34	34	-	
Cattle serum OF	A3	Testosterone	33	33	-	
Cattle(F) serum SH	A3	Testosterone	37	37	-	
Cattle urine OF	A3	Nortestosterone	36	36	-	
Cattle urine SH	A3	Nortestosterone	41	41	-	
Pig feed OF	A3	Methyltestosterone	2	2	-	
Pig urine SH	A3	Methyltestosterone	9	9	-	
Sheep urine SH	A3	Nortestosterone	5	5	-	
Sheep urine SH	A3	Methyltestosterone	3	3	-	
Cattle serum OF	A3	Progesterone	42	40	Not available	1

Red meat continued

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle(M) serum SH	A3	Progesterone	37	38	0.9	2
Cattle urine OF	A3	Trenbolone	41	41	-	
Cattle urine SH	A3	Trenbolone	42	42	-	
Pig urine SH	A3	Trenbolone	9	9	-	
Sheep urine SH	A3	Trenbolone	5	5	-	
Cattle Serum OF	A3	Gestagens	38	38	-	
Cattle kidney fat SH	A3	Gestagens	38	38	-	
Pig kidney fat SH	A3	Gestagens	11	11	-	
Sheep kidney fat SH	A3	Gestagens	2	2	-	
Cattle urine OF	A4	Zeranol	31	31	-	
Cattle urine SH	A4	Zeranol	31	31	-	
Pig urine SH	A4	Zeranol	18	18	-	
Sheep urine SH	A4	Zeranol	5	5	-	
Cattle hair/feed/urine OF	A5	b-agonists	55/87/108	55/87/108	-	
Cattle liver/retina SH	A5	b-agonists	112/113	112/113	-	
Pig feed OF	A5	b-agonists	2	2	-	
Pig liver SH	A5	b-agonists	57	57	-	
Sheep liver SH	A5	b-agonists	10	10	-	
Cattle urine OF	A6	Chloramphenicol	32	32	-	
Cattle kidney SH	A6	Chloramphenicol	30	30	-	
Pig kidney SH	A6	Chloramphenicol	21	21	-	
Sheep kidney SH	A6	Chloramphenicol	5	5	-	
Cattle kidney SH	A6	Dimetridazole/ ronidazole	13	13	-	
Pig kidney SH	A6	Dimetridazole/ ronidazole	18	18	-	
Sheep kidney SH	A6	Dimetridazole/ ronidazole	4	4	-	
Cattle kidney SH	A6	AOZ, AMOZ, AHD, SEM	15	15	-	
Pig kidney SH	A6	AOZ, AMOZ, AHD, SEM	27	27	-	
Sheep kidney SH	A6	AOZ, AMOZ, AHD, SEM	5	5	-	
Cattle feed OF	A6	Nitrofurans	34	34	-	

Red meat continued

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Pig feed OF	A6	Nitrofurans	0	0	-	
Cattle kidney SH	B1	Antimicrobials	185	185	-	
	B1	Tetracyclines	185	185	-	
	B1	Penicillins	185	185	-	
	B1	Streptomycin	185	185	-	
	B1	Sulphonamides	185	185	-	
Pig kidney SH	B1	Antimicrobials	93	93	-	
	B1	Tetracyclines	93	93	-	
	B1	Penicillins	93	93	-	
	B1	Quinolones	93	93	-	
	B1	Streptomycin	93	93	-	
	B1	Sulphonamides	93	93	-	
Sheep kidney SH	B1	Antimicrobials	95	95	-	
	B1	Tetracyclines	95	95	-	
	B1	Penicillins	95	95	-	
	B1	Streptomycin	95	95	-	
	B1	Sulphonamides	95	95	-	
Cattle kidney SH	B1	Sulphonamides	17	17	-	
Pig kidney SH	B1	Sulphonamides	84	84	-	
Sheep kidney SH	B1	Sulphonamides	3	3	-	
Cattle liver SH	B2a	Levamisole	53	53	-	
	B2a	Avermectins	55	55	-	
	B2a	Benzimidazoles	52	52	-	
Pig liver SH	B2a	Avermectins	24	24	-	
	B2a	Benzimidazoles	28	28	-	
Sheep liver SH	B2a	Levamisole	7	7	-	
	B2a	Avermectins	18	18	-	
	B2a	Benzimidazoles	18	18	-	
Cattle liver SH	B2b	Coccidiostats	0	0	-	
Pig liver SH	B2b	Coccidiostats	1	1	-	
Sheep liver SH	B2b	Coccidiostats	11	11	-	
Cattle kidney SH	B2d	Sedatives*	0	0	-	
Pig kidney SH	B2d	Sedatives*	5	5	-	
Sheep kidney SH	B2d	Sedatives*	21	21	-	
Pig kidney SH	B2d	Carazolol	5	5	-	
Sheep kidney SH	B2d	Carazolol	21	21	-	

Red meat continued

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle urine SH	B2f	Dexamethasone/ Betamethasone	17	17	-	
Sheep urine SH	B2f	Dexamethasone/ Betamethasone	1	1	-	
Pig urine SH	B2f	Dexamethasone/ Betamethasone	4	4	-	
Cattle liver SH	B2e	NSAIDs	6	6	-	
Pig liver SH	B2e	NSAIDs	4	4	-	
Sheep liver SH	B2e	NSAIDs	2	2	-	
Cattle liver SH	B2e	Flunixin	32	32	-	
Pig feed OF	B3f	Carbadox	21	21	-	
Pig liver SH	B3f	Carbadox (QCA)	47	47	-	
Bovine Plasma SH	B2e	Phenylbutazone	31	31	-	
Equine Plasma SH	B2e	Phenylbutazone	47	45	0.16, 0.54	3
Cattle liver SH	B2c	Pyrethroids	0	0	-	
Pig liver SH	B2c	Pyrethroids	7	7	-	
Sheep liver SH	B2c	Pyrethroids	15	15	-	
Cattle kidney fat SH	B3a	OCs	29	29	-	
	B3a	PCBs	29	29	-	
Pig kidney fat SH	B3a	OCs	10	10	-	
	B3a	+PCBs	10	10	-	
Sheep kidney fat SH		OCs	16	16	-	
		+PCBs	16	16	-	
Cattle kidney fat SH	B3b	OPs	46	46	-	
Pig kidney fat SH	B3b	OPs	15	15	-	
Sheep kidney fat SH	B3b	OPs	20	20	-	
Cattle kidney SH	B3c	Cadmium	10	10	-	
Cattle muscle SH	B3c	Cadmium	7	7	-	
Sheep kidney SH	B3c	Cadmium	2	2	-	
Sheep muscle SH	B3c	Cadmium	2	2	-	
Pig kidney SH	B3c	Cadmium	1	1	-	
Pig muscle SH	B3c	Cadmium	1	1	-	

Red meat continued

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle kidney SH	B3c	Lead	10	10	-	
Cattle muscle SH	B3c	Lead	7	7	-	
Sheep kidney SH	B3c	Lead	2	2	-	
Sheep muscle SH	B3c	Lead	2	2	-	
Pig kidney SH	B3c	Lead	1	1	-	
Pig muscle SH	B3c	Lead	1	1	-	

Key:

SH	Slaughterhouse
OF	On farm
*	Analysis for chlorpromazine (Annex IV group A6) is part of the sedative screen
AOZ	Aminooxazolidone (this and the next 3 agents are nitrofurans metabolites)
AMOZ	3-amino-5-morpholinomethyl-1,3-oxazolidin-2-one
AHD	1-aminohydantoin
SEM	Semicarbazide
NSAIDs	Non-steroidal anti-inflammatories: Flunixin, Tolfenamic acid, Vedaprofen, Carprofen
Gestagens	Medroxy progesterone acetate, Chlormadinone acetate, Megestrol acetate, Melengestrol acetate, Flurogesterone acetate.
Pyrethroids	Tetramethrin (cis and trans); Lambda-cyhalothrin; Permethrin (cis and trans); Cyfluthrin (cis and trans); Cypermethrin (cis and trans); Fenvalerate 1 and 2; Deltamethrin; Resmethrin.

Notes:

1. Serum from a male bovine screened positive and progesterone confirmed but replication poor and it was not possible to assign a value. There was insufficient sample to repeat the test. A further sample was taken, and screened above the CC-alpha threshold but not above the 0.5 ppb action level. Insufficient sample to confirm the result.
2. Progesterone confirmed at 0.9ppb. Follow-up samples collected were all negative for progesterone.
3. Phenylbutazone is not licensed for use in horses intended for human consumption. Additional sampling of further consignments was programmed.

[\[Top\]](#)

Poultry

Sampling plan	Broilers	Spent hens	Turkeys
Production forecast (tonnes)	121,000	500	7,700

1 sample per 200 tonnes of production, with a minimum of 200 samples.

50% are allocated to Group A (hormones and banned substances), of which 20% are taken on farm.

50% are allocated to Group B (veterinary medicines and contaminants)

See Council Directive 96/23/EC for information on the allocation of samples to subgroups of substances

[Council Directive 96/23/EC](#)

Matrix	sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Range (µg/kg)	Concentration detected above the MRL/Action Level (µg/kg)	Note
Broiler serum SH		DES, Hexoestrol, Dienoestrol	18	18	-	-	
Turkey serum SH	A1	DES, Hexoestrol, Dienoestrol	0	0	-	-	
Broiler serum SH	A3	Trenbolone	14	14	-	-	
Turkey serum SH	A3	Trenbolone,	0	0	-	-	
Broiler serum SH	A4	Zeranol	18	18	-	-	
Turkey serum SH	A4	Zeranol	0	0	-	-	
Broiler feed OF	A5	beta-agonists	19	19	-	-	
Turkey feed OF	A5	beta -agonists	1	1	-	-	
Broiler liver SH	A5	beta -agonists	18	18	-	-	
Turkey liver SH	A5	beta -agonists	1	1	-	-	
Broiler muscle SH	A6	Chloramphenicol	82	82	-	-	
Turkey muscle SH	A6	Chloramphenicol	2	2	-	-	
Broiler feed OF	A6	Dimetridazole/ronidazole	17	17	-	-	
Broiler liver SH	A6	Dimetridazole/ronidazole	78	78	-	-	
Turkey feed OF	A6	Dimetridazole/ronidazole	0	0	-	-	
Turkey liver SH	A6	Dimetridazole/ronidazole	1	1	-	-	
Broiler feed OF	A6	Nitrofurans	6	6	-	-	

Poultry continued

Matrix	sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Range (µg/kg)	Concentration detected above the MRL/Action Level (µg/kg)	Note
Turkey feed OF	A6	Nitrofurans	0	0	-	-	
Broiler SH	A6	AOZ, AMOZ, AHD, SEM	102	98	-	0.07, 0.22, 0.30, 2.1	1
Broiler muscle SH	B1	Antimicrobials	122	122	-	-	
Turkey muscle SH	B1	Antimicrobials	2	2	-	-	
Broiler muscle SH	B1	Quinolones	38	38	-	-	
Turkey muscle SH	B1	Quinolones	0	0	-	-	
Broiler muscle SH	B1	Sulphonamides	28	28	-	-	
Turkey muscle SH	B1	Sulphonamides	1	1	-	-	
Broiler liver SH	B2a	Benzimidazoles	14	14	-	-	
Turkey liver SH	B2a	Benzimidazoles	0	0	-	-	
Broiler liver SH	B2a	Levamisole	14	14	-	-	
Turkey liver SH	B2a	Levamisole	0	0	-	-	
Broiler liver SH	B2b	Ionophores	30	30	-	-	
Turkey liver SH	B2b	Ionophores	1	1	-	-	
Broiler liver SH	B2b	Lasalocid	32	32	-	-	
Turkey liver SH	B2b	Lasalocid	0	0	-	-	
Broiler liver SH	B2b	Nicarbazin	30	29	330 - 2,500	208, 501	2
Turkey liver SH	B2b	Nicarbazin	1	0	-	-	
Broiler liver SH	B2c	Pyrethroids	6	6	-	-	
Turkey liver SH	B2c	Pyrethroids	1	1	-	-	
Broiler liver SH	B2c	Carbamates	5	5	-	-	
Turkey liver SH	B2c	Carbamates	1	1	-	-	
Broiler fat SH	B3a	OCs	24	24	-	-	

Poultry continued

Matrix	sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Range (µg/kg)	Concentration detected above the MRL/Action Level (µg/kg)	Note
Broiler fat SH	B3a	+PCBs	25	25	-	-	
Broiler liver SH	B3d	Aflatoxins	8	8	-	-	
Turkey fat SH	B3a	OCs	1	1	-	-	
Turkey fat SH	B3a	+PCBs	1	1	-	-	
Turkey liver SH	B3d	Aflatoxins	1	1	-	-	
Broiler liver SH	B3c	Cadmium	9	9	-	-	
Turkey liver SH	B3c	Cadmium	0	0	-	-	
Broiler liver SH	B3c	Lead	9	9	-	-	
Turkey liver SH	B3c	Lead	0	0	-	-	

Key:

SH	Slaughterhouse
OF	On farm
Pyrethroids	Tetramethrin (cis and trans); Lambda-cyhalothrin; Permethrin (cis and trans); Cyfluthrin (cis and trans); Cypermethrin (cis and trans); Fenvalerate 1 and 2; Deltamethrin; Resmethrin.
Carbamates	Propoxur; Carbofuran;

Notes:

1. AOZ detected above CC-alpha Extensive follow up investigation, sampling and positive release scheme implemented.
2. Nicarbazin detected >JEFCA MRL (200 microgramme/kg) in two poultry liver samples.

[\[Top\]](#)

Eggs

Sampling plan

Production forecast

52,436 tonnes

1 sample per 1,000 tonnes; including samples from free range, battery and perchery barn production systems.

See Council Directive 96/23/EC for information on the allocation of samples to subgroups of substances.

[Council Directive 96/23/EC](#)

Matrix	sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Range (µg/kg)	Concentration detected above the MRL/Action Level (µg/kg)
Egg	B1	Antimicrobial	32	32		-
Egg	B2a	Benzimidazoles	2	2		-
Egg	A6	Chloramphenicol	9	9		-
Egg	A6	Dimetridazole	16	16		-
Egg	A6	Furazolidone	7	7		-
Egg	B2b	Ionophores	22	22		-
Egg	B2b	Lasalocid	21	21 *	-	-
Egg	B2b	Nicarbazin	19	19	-	-
Egg	B3a	OCs	4	4	-	-
Egg	B3a	PCBs	4	4	-	-

Key:

*	DAL - Differential Action Level of 100 µg/ kg
---	---

[\[Top\]](#)

Milk

Sampling plan

Production forecast

1,786,998 Litres

1 sample per 15,000 tonnes.

See Council Directive 96/23/EC for information on the allocation of samples to subgroups of substances

[Council Directive 96/23/EC](#)

Matrix	sub-group	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Notes
Milk	B1	Antimicrobial	83	83	-	
Milk	B2a	Avermectins	40	40	-	
Milk	B3c	Cadmium	1	1	-	
Milk	A6	Chloramphenicol	44	44	-	
Milk	A6	Dimetridazole	43	43	-	
Milk	B3c	Lead	1	1	-	
Milk	B2a	Levamisole	20	20	-	
Milk	B3d	Mycotoxins*	51	51	-	
Milk	B2e	NSAIDS	33	33	-	
Milk	B3a	OCs	10	10	-	
Milk	B3a	PCBs	10	10	-	
Milk	B3b	Ops	3	3	-	
Milk	B1	Quinolones	88	88	-	
Milk	B1	Sulphonamides	25	25	-	

Key:

*	Aflatoxin M1
NSAIDs	Non-steroidal anti inflammatories: Flunixin, Tolfenamic acid, Vedaprofen, Carprofen

[\[Top\]](#)

Fish

Sampling plan

Production forecast: 1,125 tonnes trout

1 sample per 100 tonnes of production.

See Council Directive 96/23/EC for information on the allocation of samples to subgroups of substances.

[Council Directive 96/23/EC](#)

Matrix	Subgroup	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)
Trout muscle	B1	Antimicrobial	1	1	-
Trout muscle	B3e	Malachite Green	7	7	-
Salmon Muscle	B3e	Malachite Green	5	5	-
Trout muscle	A6	Nitroimidazoles	1	1	-
Trout muscle	A6	Nitrofurans	8	8	-
Salmon Muscle	A6	Nitrofurans	5	5	-

[\[Top\]](#)

Targeted sampling – all species

Combined results for the Meat Inspection, Bovine QA and Pig Phase 1 sampling schemes and results of a major investigation following the finding under the National Surveillance Scheme of a banned substance in poultrymeat. (Poultry, feed and water at several production sites were sampled for nitrofurans residues). See Council Directive 96/23/EC for more information on subgroups of substances.

[Council Directive 96/23/EC](#)

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle retina SH	A5	beta -agonists	381	380	17	1
Cattle urine OF	A5	beta -agonists	94	94	-	
Cattle hair OF	A5	beta -agonists	54	54	-	
Cattle feed/liquid OF	A5	beta -agonists	2	2	-	
Cattle urine SH	A3	Hormones (22)	347	347	-	
Cattle urine OF	A3	Hormones (22)	126		See details below	
	A4	Zeranol	126	126		
	A3	alpha-boldenone	126	124	5.7, 7.7	2
	A3	alpha-nortestosterone	126	124	1.1, 2.7	3
Cattle Injection Site SH	A3	Hormone esters	21	21	-	
Cattle serum OF	A3	Progesterone	5	5	-	
Cattle kidney SH	A6	Chloramphenicol	3	3	-	
Poultry water OF	A6	Nitrofurans	654	609	FUR 1(2), 2(2), 3(2), 4(3), 5(2), 7, 17, 15, 20, 25, 30, 34, 43, 49, 50(3), 80, 82, 94, 96, 111, 113, 129, 141, 165, 209, 247, 563, 795, 974, 1008, 25264, 28079, 29759, 4400000, 5100000, 27000000	4
Poultry meal OF	A6	Nitrofurans	62	50	AOZ 0.4, 0.5(2), 0.7, 3.5, 4.2, 4.9, 20.1, 31.0, 33.2, 212.8, 281.8	5

Targeted sampling – all species continued

Matrix	Sub-group	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Poultry muscle OF	A6	Nitrofurans	349	338	AOZ 0.07(2), 0.13, 0.17, 0.25, 0.28, 0.31, 0.39, 0.41, 2.03, 3.33	6
Cattle muscle SH	B2a	Nitroxynil	8	8	-	
Cattle liver SH	B2a	Avermectins	12	12	-	
Cattle muscle SH	B2a	Avermectins	3	0	19.2, 24.5, 25.5	7
Cattle liver SH	B2a	Benzimidazoles	4	4	-	
Cattle liver SH	B2a	Levamisole	1	1	-	
Cattle liver SH	B2e	NSAIDS	1	1	-	
Horse serum	B2e	Phenylbutazone	1	1	-	
Sheep liver SH	B2a	Avermectins			-	
Cattle muscle SH	B1	AMs	1537		N/A Qualitative test	
	B1	Tetracyclines	1537	1528	CTC 167, OTC 154, 194, 274, 298, 400, 452, 956, 1754	8
	B1	Penicillins	1537	1536	Amoxycillin 882	9
	B1	Aminoglycosides	1537	1537	-	
	B1	Sulphonamides	1537	1536	SMT 29250	10
	B1	Macrolides	1537	1535	TIL 6630, 2095	11
	B1	Quinalones	1537	1537	-	
Sheep muscle SH	B1	AMs	6	6	N/A Qualitative test	
	B1	Tetracyclines	6	6		
	B	Penicillins	6	6	-	
	B1	Aminoglycosides	6	6	-	
	B1	Sulphonamides	6	6	-	
Pig muscle SH	B1	Chloramphenicol	20	20	-	
Pig muscle SH	B1	AMs	310	310	N/A Qualitative test	
	B1	Tetracyclines	310	310	-	
	B1	Penicillins	310	310	-	
	B1	Aminoglycosides	310	310	-	
	B1	Sulphonamides	310	309	SDZ 146	12
Cattle kidney SH	B2d	Sedatives	1	1	-	

Targeted sampling – all species continued

Key:

SH	Slaughterhouse
OF	On farm
(n)	Number of samples with same concentration of analyte
CTC	Chlortetracycline
OTC	Oxytetracycline
SMT	Sulphamethazine
SDZ	Sulphadiazine
CBL	Clenbuterol
FUR	Furazolidone (a nitrofurantoin antibiotic which is banned for use in farm animals)
AMs	Antimicrobials
AOZ	Aminooxazolidinone (a nitrofurantoin metabolite)

Notes:

1. Retina contained clenbuterol. Carcase excluded from the food chain. Follow up samples collected.
2. a-boldenone detected in two animals from a single producer. Conjugated a-boldenone but no b-boldenone detected - regarded as suspicious. Producer targeted for further sampling.
3. a-nortestosterone detected in the urine of two steers from a producer who also had steroid cocktails in his possession. As a consequence, the group of animals were seized and destroyed.
4. Following AOZ detection in poultry muscle, nitrofurans were detected in water tanks of old poultry houses during investigation and corrective action.
5. Meal samples collected during investigations were found to be contaminated with AOZ by faecal excretion.
6. Samples were collected as part of a positive release scheme following AOZ detection in poultry muscle. The flocks from which the two samples that contained AOZ in excess of the MRPL were collected, were retested immediately before slaughter. In both cases the concentrations were below the MRPL; in line with advice from the FSA they were released.
7. Ivermectin detected in muscle from three bovines which were slaughtered before completing the withdrawal period. There is no agreed MRL for ivermectin in bovine muscle, but the carcasses were surrendered and excluded from the food chain.
8. Tetracyclines detected >MRL. Carcasses excluded from the food chain.
9. Amoxicillin detected >MRL. Carcase excluded from the food chain.
10. Sulphamethazine detected > MRL (100 µg/kg) Carcase excluded from the food chain.
11. Tilimicosin >MRL (50 µg/kg) in muscle. Carcase excluded from the food chain.
12. Sulphadiazine detected > MRL (100 µg/kg). Carcasses excluded from the food chain.

[\[Top\]](#)

Other testing – all species

Combined results for additional, short-term targeted sampling e.g. Pig Phase 2
See Council Directive 96/23/EC for information about subgroups of substances
[Council Directive 96/23/EC](#)

Matrix	Sub-group	Analyte	No of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle liver/retina SH	A5	beta-agonists	897	897		
Cattle urine SH	A5	Ractopamine	54	54	-	
Cattle kidney SH	B1	Antimicrobials	897		N/A Qualitative test	
	B1	Tetracyclines	897	897	-	
	B1	Penicillins	897	897	-	
	B1	Streptomycin	897	897	-	
	B1	Sulphonamides	897	897	-	
	B1	Macrolides	897	897	-	
	B1	Quinolones	897	897	-	
Pig kidney SH	A6	Chloramphenicol	417	416	0.12	1
	A6	Nitroimidazoles	29	29	-	
Pig kidney SH	B1	Antimicrobials	1379		N/A Qualitative test	
	B1	Tetracyclines	1379	1371	CTC 640, 678, 794, 1050, 1136, 1165, 1180, 1632	2
	B1	Penicillins	1379	1379		
	B1	Streptomycin	1379	1379		
	B1	Sulphonamides	1379	1379		
	B1	Macrolides	1379	1379		
	B1	Quinolones	1379	1379		
Poultry Muscle SH	A6	AOZ, AMOZ, AHD, SEM	178	172	AOZ 0.21, 0.23, 0.29(2), 0.32, 0.5	3
Poultry liver SH	B2b	Nicarbazine	182	172	211, 223, 249, 256, 272, 441, 594, 827, 1146, 1608	4
	B2b	Lasalocid	4	4		
	B2b	Monensin	4	4		
	B2b	Salinomycin	4	4		
	B2b	Narasin	4	4	-	
Cattle urine SH (NSS)	A3	Hormones (22)	153		See specific hormones below	
	A1	Stilbenes	113	113	-	
	A4	Zeranol	122	122		
	A4	Taleranol	153	153		
	A3	Trenbolone	111	111	-	

Other testing – all species continued

Matrix	Sub-group	Analyte	No of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	Note
	A3	alpha-boldenone	153	154	7	5
	A3	alpha-nortestosterone	111	109	7.2, 14	6
Cattle urine OF (NSS)	A3	Hormones	130		See specific hormones below	
	A1	Stilbenes	106	106	-	
	A4	Zeranol	99	99		
	A4	Taleranol	130	130		
	A3	Trenbolone	89	89	-	
	A3	alpha-nortestosterone	94	94		
	A3	alpha-boldenone	130	129	4.35 decon, 2.25 free, 4.6decon ,4.55 free	7
Sheep urine SH (NSS)	A3	Hormones (22)	22		See specific hormones below	
	A1	Stilbenes	19	19	-	
	A4	Zeranol	17	17	-	
	A4	Taleranol	17	17	-	
	A3	Trenbolone	17	17	-	
	A3	alpha-boldenone	22	22		
	A3	alpha-nortestosterone	17	16	0.7	8
Pig urine SH (NSS)	A3	Hormones (22)	49		See specific hormones below	
	A1	Stilbenes	40	40	-	
	A3	Beta-nortestosterone	49	40	Levels not quantified	9
	A3	Beta-boldenone	49	8	Levels not quantified	10
	A3	Metyl-testosterone	40	40	-	
	A3	Trenbolone	40	40	-	
	A4	Zeranol	29	29	-	

Other testing – all species continued

Key:

SH	Slaughterhouse
OF	On farm
NSS	National Surveillance Scheme sample
(n)	number of samples with same concentration of analyte
Bold	samples declared positive in excess of MRL or action level
CTC	Chlortetracycline
OTC	Oxytetracycline
PenG	Penicillin G (Benzyl-penicillin)
Enro	Enrofloxacin
SMT	Sulphamethazine
SDZ	Sulphadiazine

Notes:

1	Intensive chloramphenicol testing was introduced following the discovery of injectable product by DHHSPS. One pig confirmed positive. Samples were collected from a further 20 animals on three occasions from this producer. All tested negative.
2	Chlortetracycline confirmed >MRL (600 µg/kg) in kidney samples . Producers were placed on an intensive sampling programme.
3	Additional sampling for AOZ was carried out after discovery of the first positive in the National Surveillance Scheme. All positives were from one integrator. Further investigation, and product testing for a positive release scheme were initiated
4	Nicarbazin was confirmed in the livers of 8 broilers > the advisory MRL (200 µg/kg) set by JECFA: Joint Expert (Food and Agriculture Office/World Health Org) Committee on Food Additives
5	Conjugated alpha-boldenone but no beta-boldenone detected. Treated as suspicious. Investigation and additional samples collected. All negative.
6	alpha-nortestosterone detected in two females above the action level (5ppb) agreed with the Veterinary Medicines Directorate. Follow -up samples were negative in one case; results are pending for the other
7	One sample contained only free alpha-boldenone, which is likely to have originated from faecal contamination. The second contained both free and conjugated alpha-boldenone, which is regarded as suspicious. Investigation and additional sampling initiated.
8	One sample <5ppb, the action level agreed with the VMD for follow up investigation
9	beta-nortestosterone occurs naturally in the male pig. Forty porcine urine samples were found to contain beta-nortestosterone.
10	Reports form the Community and National Reference Labs' network suggest that beta-boldenone can occur naturally in the male pig. Eight porcine urine samples were found to contain beta-boldenone.

[\[Top\]](#)