

Northern Ireland 2008 Milk Results

Group of substances	Compounds	Matrix	MRL µg/kg	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A6	Chloramphenicol	Milk	Not set	46	45	45			
A6	Nitroimidazoles	Milk	Not set	46	50	50			
B1	Antimicrobial screen	Milk	Various	92	92	92			
B1	Cephalosporins	Milk	Various	52	52	52			
B1	Quinolones	Milk	100	52	52	52			
B1	Sulphonamides	Milk	100µg/l	25	28	28			
B2a	Avermectins	Milk	Not set	42	43	43			
B2a	Benzimidazoles	Milk	Various	22	25	25			
B2a	Levamisole	Milk	Not set	22	23	23			
B2e	Phenylbutazone	Milk	Not Set	28	29	29			
B2e	Flunixin	Milk	40	8	9	9			
B3a	Organochlorines/ PCBs	Milk	Not set	6	5	5			
B3b	Organophosphates	Milk	Not set	4	4	4			
B3c	Cadmium/Lead	Milk	20	5	6	6			
B3d	Aflatoxins	Milk	0.05 (M ₁)	14	16	16			
Total Samples				129					
Total Analyses				464					

Samples in blue analysed for more than one substance

Northern Ireland 2008 Egg Results

Group of substances	Compounds	Matrix	MRL µg/kg	Planed Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A6	Chloramphenicol	Eggs	Not Set	10	10	10			
A6	Dimetridazole	Eggs	Not Set	9	11	11			
A6	Nitrofurans	Eggs	Not Set	9	9	9			
B1	Antimicrobial Screen	Eggs	Not Set	19	20	20			
	Tetracyclines	Eggs	Not Set	9	10	10			
B2a	Benzimidazoles	Eggs (free range only)	400 flubendazole	1	1	1			
B2b	Nicarbazin	Eggs	Not Set	12	12	12			
B2b	Nicarbazin			4	4	4			
B2b	Ionophores Including Lasalocid	Eggs	150 Lasalocid	16	16	16			
B2b	Ionophores Including Lasalocid	Eggs	150 Lasalocid	4	4	4			
B2c	Pyrethroids	Eggs		1	0	0			
B3a	Organochlorines/PCBs	Eggs	Various Not set	3	3	3			
Total Analyses				97					
Total Samples				40					

Northern Ireland 2008 Fish Results

Group of substances	Compounds	Species	Matrix	MRL µg/kg	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
B3e	Dyes	Trout	skin+muscle	Not Set		5	5	-	-	
B3e	Dyes	Salmon	skin+muscle	Not Set		0	0	-	-	1

1	No salmon processed in NI due to jellyfish kill during 2007.
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Northern Ireland 2008 Poultry Results On farm

Group of substances	Compounds	Species	Matrix	MRL µg/kg	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A5	Beta-agonists	Broilers	Feed	Not set	24	24	24			
A5	Beta-agonists	Turkeys			1	1	1			
A6	Dimetridazole	Broilers	Feed	Not set	24	17	17			
A6	Dimetridazole	Turkeys			1	0	0			
A6	Nitrofurans	Broilers	Feed	Not set	24	20	20			
A6	Nitrofurans	Turkeys			2	2	2			
Total Samples					76					

Northern Ireland 2008 Poultry Results Slaughterhouse

Group of substances	Compounds	Species	Material	MRL µg/kg	Nos Samples Northern Ireland	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A1	DES	Broilers	Liver/serum	Not set	42	34	34			
A1	DES	Turkeys	Liver/serum	Not set	2	1	1			
A3	Trenbolone	Broilers	Liver/serum	Not set	18	17	17			
A3	Trenbolone	Turkeys	Liver/serum	Not set	1	1	1			
A4	Zeranol	Broilers	Liver/serum	Not set	42	34	34			
A4	Zeranol	Turkeys	Liver/serum	Not set	2	1	1			
A5	B-agonists	Broilers	Liver	Not set	51	50	50			
A6	B-agonists	Hens	Liver	Not set	1	1	1			
A5	B-agonists	Turkeys	Liver	Not set	2	2	2			
A6	Chloramphenicol	Broilers	Muscle	Not Set	97	93	93			
A6	Chloramphenicol	Hens	Muscle	Not Set	1	1	1			
A6	Chloramphenicol	Turkeys	Muscle	Not Set	5	4	4			
A6	Dimetridazole	Broilers	Liver	Not Set	84	85	85			
A6	Dimetridazole	Hens	Liver	Not Set	1	1	1			
A6	Dimetridazole	Turkeys	Liver	Not Set	4	3	3			
A6	Nitrofurans	Broilers	Muscle	Not Set	97	95	95			
A6	Nitrofurans	Hens	Muscle	Not Set	1	1	1			
A6	Nitrofurans	Turkeys	Muscle	Not Set	5	5	5			
B1	Antimicrobial Screen	Broilers	Muscle	Various	220	216	215		CTC 284	1
B1	Antimicrobial Screen	Hens	Muscle	Various	2	2	2			
B1	Antimicrobial Screen	Turkeys	Muscle	Various	10	10	10			
B1	Sulphonamides	Broilers	Muscle	100	86	85	85			
B2	Sulphonamides	Hens	Muscle	100	1	1	1			
B1	Sulphonamides	Turkeys	Muscle	100	1	3	3			
B2a	Benzimidazoles	Broilers	Liver	400*	31	30	30			
B2a	Benzimidazoles	Hens	Liver	400*	1	0	0			
B2a	Benzimidazoles	Turkeys	Liver	400*	3	3	3			
B2a	Levamisole	Broilers	Liver	100	31	29	29			
B2a	Levamisole	Hens	Liver	100	1	1	1			
B2a	Levamisole	Turkeys	Liver	100	3	3	3			

Northern Ireland 2008 Poultry Results Slaughterhouse

Group of substances	Compounds	Species	Material	MRL µg/kg	Nos Samples Northern Ireland	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
B2b	Nicarbazin	Broilers	Muscle/Liver	Not Set	73	75	60	Liver 15, 24, 34, 56, 62, 122	Liver 239, 268, 314, 333, 362, 891, 2090 Muscle 4,5,8, 12, 20, 27, 30	2
B2b	Nicarbazin	Turkeys	Muscle/Liver	Not Set	2	2	2			
B2b	Ionophores	Broilers	Liver	Not Set	73	73	73			
B2b	Ionophores	Turkeys	Liver	Not Set	2	2	2			
B2c	Carbamates/Pyrethroids	Broilers	Liver	Not Set	8	7	7			
B2c	Carbamates/Pyrethroids	Turkeys	Liver	Not Set	1	1	1			
B3a	Organochlorines/PCBs	Broilers	Liver	Various	27	27	26	PCB 20		
B3a	Organochlorines/PCBs	Turkeys	Liver	Not set	1	1	1			
B3c	Cadmium	Broilers	Liver	500	8	5	0	18, 22, 23, 26, 56		
	Lead	Broilers	Liver	500	8	5	5			
B3d	Aflatoxins	Broilers	Liver	Various	2	2	2			

Notes

1	Chlortetracycline detected above the MRL in a broiler muscle sample
2	Nicarbazin detected in the liver of seven samples were above the MRL. The corresponding muscle samples were below the MRL

Northern Ireland 2008 Cattle Results On Farm

Group of Substances	Compounds	Matrix	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A1	Stilbenes	Urine	Cattle (y.b.)	Not set	48	43	43			
A1	Stilbenes	Urine	Cows OTMS	Not set	9	9	9			
A2	Thyrostats	Serum/Urine	Cattle (y.b.)	Not set	24	21	21			
A2	Thyrostats	Serum/Urine	Cows OTMS	Not set	5	6	6			
A3	Trenbolone	Urine	Cattle (all)	Not set	130	126	126			
A3	Trenbolone	Urine	Cows OTMS	Not set	28	23	23			
A3	Progesterone	Serum	Cattle (m)	Not set	29	33	32		0.53	1
A3	Oestradiol	Serum	Cattle (m)	Not set	58	57	57			
A3	Testosterone	Serum	Cattle(f)	Not set	38	41	40		7.2	2
A3	Testosterone	Serum	Cows OTMS	Not set	11	12	12			
A3	Nortestosterone	Urine	Cattle(y.b.)	Not set	130	126	125		19 (Female)	3
A3	Methyltestosterone	Urine	Cattle (all)	Not set	130	126	126			
A3	Methyltestosterone	Urine	Cows OTMS	Not set	28	23	23			
A3	Stanazol	Urine	Cattle (all)	Not set	130	126	126			
A3	Stanazol	Urine	Cows OTMS	Not set	28	23	23			
A3	Gestagens	Serum	Cattle (y.b.)	Not set	38	34	34			
A3	Gestagens	Serum	Cows OTMS	Not set	11	12	12			
A3	Boldenone	Urine	Cattle (y.b.)	Not set	130	126	126			
A3	Boldenone	Urine	Cows OTMS	Not set	130	23	23			
A4	Zeranol	Urine	Cattle (y.b.)	Not set	48	42	41	1.5		4
A4	Zeranol	Urine	Cows OTMS	Not set	9	9	9			
A5	Beta agonists	Feed	Cattle (y.b.)	Not set	33	43	43			
A5	Beta agonists	Feed	Cows OTMS	Not set	11	12	12			
A5	Beta agonists	Urine	Cattle (y.b.)	Not set	30	45	45			
A5	Beta agonists	Urine	Cows OTMS	Not set	4	16	16			
A6	Chloramphenicol	Feed/Urine	Cattle(all)	Not set	24	22	22			
A6	Chloramphenicol	Feed/Urine	Cows OTMS	Not set	16	17	17			

A6	Nitrofurans	Feed	Cattle(all)	Not set	24	18	18			
A6	Nitrofurans	Feed	Cows OTMS	Not set	5	3	3			
	Total Samples				1339					

Northern Ireland 2008 Cattle Results Slaughter House

Group of Substances	Compounds	Matrix	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A1	Stilbenes	Urine	Cattle (y.b)	Not Set	48	46	46			
A1	Stilbenes	Urine	Cows OTMS	Not Set	11	9	9			
A2	Thyrostats	Urine	Cattle (y.b.)	Not Set	24	25	25			
A2	Thyrostats	Urine	Cows OTMS	Not Set	6	6	6			
A3	Trenbolone	Urine	Cattle (all)	Not set	115	138	138			
A3	Trenbolone	Urine	Cows OTMS	Not Set	29	21	21			
A3	Progesterone	Serum	Cattle (m)	Not set	29	28	25		0.63, 0.81, 7.1	5
A3	Oestradiol	Serum	Cattle (m)	Not set	36	37	37			
A3	Testosterone	Serum	Cattle(f)	Not set	36	35	35			
A3	Testosterone	Serum	Cows OTMS	Not Set	12	11	11			
A3	Nortestosterone	Urine	Cattle (all)	Not set	115	138	137		0.54 (Male)	6
A3	Methyltestosterone	Urine	Cattle (all)	Not set	115	138	138			
A3	Methyltestosterone	Urine	Cows OTMS	Not set	29	21	21			
A3	Stanazol	Urine	Cattle (all)	Not set	115	138	138			
A3	Stanazol	Urine	Cows OTMS	Not set	29	21	21			
A3	Gestagens	Kidney fat	Cattle (y.b.)	Not set	36	39	39			
A3	Gestagens	Kidney fat	Cows OTMS	Not Set	12	6	6			
A3	Boldenone	Urine	Cattle (y.b)	Not set	115	138	138			
A3	Boldenone	Urine	Cows OTMS	Not Set	28	21	21			
A4	Zeranol	Urine	Cattle (y.b)	Not Set	48	46	46			
A4	Zeranol	Urine	Cows OTMS	Not Set	11	9	9			
A5	Beta agonists	Liver/retina	Cattle (y.b)	Not Set	85	84/83	84/83			
A5	Beta agonists	Liver/retina	Cows OTMS	Not Set	12	11-Nov	11/11			
A6	Chloramphenicol	Kidney	Cattle (y.b)	Not set	24	28	28			
A6			Cows OTMS	Not set	18	14	14			
A6	Dimetridazole	Kidney	Cattle (y.b)	Not set	16	15	15			
A6	Nitrofurans	Kidney	Cattle	Not set	24	24	24			

A6	Nitrofurans	Kidney	Cows OTMS	Not set	6	6	6			
B1	Antibacterial substances	Kidney	Cattle	Various	229	229	229			
B1	Antibacterial substances		Cows OTMS	Various	50	49	49			
B1	Sulphonamides	Kidney	Cattle	100	31	30	30			
B2a	Benzimidazoles	Liver	Cattle (all)	Various	82	82	82			
B2a	Avermectins	Liver	Cattle (all)	Various	59	59	59			
B2a	Levamisole	Liver	Cattle (all)	100	82	82	82			
B2b	Ionophores	Liver	Calves	Not Set	0	0	0			
B2c	Pyrethroids	Kidney fat	Cattle	Various	5	5	5			
B2d	Sedatives/ betablockers	Liver/kidney	Cattle	Not Set	8	8	8			
B2e	Carprofen/vedaprofen	Kidney/Liver	Cattle	Not set	30	34	34			
B2e	Carprofen/vedaprofen	Kidney/Liver	Cows OTMS	Not Set	11	6	6			
B2e	Phenylbutazone	Plasma	Cattle	Not set	34	32	331		0.13	7
B2e	Phenylbutazone	Plasma	Cows OTMS	Not Set	11	9	9			
B2e	Flunixin	Liver	Cattle	300	25	27	27			
B2f	Dexamethazone/beta methazone	Liver/Urine	Cattle	2	17	24	24			
B2f	Dexamethazone/beta methazone	Liver/Urine	Cows OTMS	2	36	28	28			
B3a	Organochlorines/PCBs	Kidney fat	Cattle	Various	14	14	14			
B3a	Organochlorines/PCBs	Kidney fat	Cows OTMS	Various	1	0	0			
B3b	Organophos-phorus compounds	Kidney fat	Cattle	Various	39	39	39			
B3b	Organophos-phorus compounds	Kidney fat	Cows OTMS	Various	3	3	3			
B3c	Cadmium	Kidney	Cattle	1000	0	0	0			
	Lead			500	0	0	0			
	Cadmium	Muscle	Cattle	50	0	0	0			
	Lead			100	0	0	0			
	Cadmium	Kidney	Cows OTMS	1000	9	7	0	102, 113, 131, 169, 173, 199, 247		
	Lead			500	9	7	6	140		
	Cadmium	Muscle	Cows OTMS	50	9	8	8			
	Lead			100	9	8	8			
B3d	Aflatoxins	Liver	Cattle	Not set	5	6	6			

Notes

1	Progesterone in serum confirmed above the action level in one male on-farm.
2	Testosterone confirmed above the action level in one female on-farm
3	α -Nortestosterone was detected in the urine of one female bovine above the agreed VMD action level of 5 $\mu\text{g}/\text{kg}$ in an on-farm sample. Female ruminants can produce α -nortestosterone under during pregnancy. This animal was in late pregnancy at the time of sampling.
4	Zeranol was detected in the urine of one young bovine. A model developed in distinguishing between possible abuse and natural contamination suggested that this was a result of naturally-occurring Fusarium toxin metabolism.
5	Progesterone in serum was confirmed above the action level in three males at slaughterhouse.
6	α -Nortestosterone was detected in the urine of one male bovine above the agreed VMD action level of 0.5 $\mu\text{g}/\text{kg}$ in an abattoir sample. Male bovines can produce α -nortestosterone following injury.
7	Phenylbutazone was detected in the plasma of one bovine at slaughter.

Northern Ireland 2008 Pig Results On Farm

Group of Substances	Compounds	Material to be analysed	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A3	Methyltestosterone	Feed	Pigs	Not set	2	1	1			
A5	Beta agonists	Feed	Pigs	Not set	3	2	2			
A6	Nitofurans	Feed	Pigs	Not set	1	1	1			
A6	Dimetridazole	Feed	Pigs	Not set	1	1	1			
Total Samples					7					

Northern Ireland 2008 Pig Results Slaughter House

Group of Substances	Compounds	Material to be analysed	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A1	Stilbenes	Urine	Pigs (all)	Not set	21	21	21			
A2	Thyrostats	Urine	Pigs (all)	Not set	7	7	7			
A3	Altrenogest	Kidney fat	Pigs (all)	Not set	7	7	7			
A3	Methyltestosterone	Urine	Pigs (all)	Not set	14	14	14			
A3	Stanazol	Urine	Pigs (all)	Not set	14	14	14			
A3	Trenbolone	Urine	Pigs (all)	Not set	14	14	14			
A4	Zeranol	Urine	Pigs (all)	Not set	21	21	21			
A5	Beta agonists	Liver	Pigs (all)	Not set	27	27	27			
A6	Chloramphenicol	Kidney	Pigs (all)	Not set	18	18	18			
A6	Dimetridazole	Kidney	Pigs (all)	Not set	17	17	17			
A6	Nitrofurans metabolites	Kidney	Pigs (all)	Not set	23	23	23			
B1	Any antimicrobial agent	Kidney	Pigs(all)	Various	126	126	126			
B1	Sulphonamides	Kidney	Pigs(all)	100	63	63	63			
B2a	Benzimidazoles	Liver	Pigs	Various	14	13	13			
	Levamisole	Liver	Pigs	100	14	13	13			
	Avermectins	Liver	Pigs	Various	14	14	14			
B2b	Ionophores	Liver	Pigs	Not Set	8	8	8			
B2c	Pyrethroids	Kidney fat	Pigs	Not Set	5	5	5			
B2d Sedatives/ betablockers	Azaperone Azaperol Propopnyl Promazine Chlorpromazine	Liver/kidney	Pigs	100 (azaperone)	13	14	14			

	Carazolol	Liver	Pigs	25	13	14	14			
B2e NSAIDS	Carprofen Vedaprofen	Kidney/Liver	Pigs	Not Set	3	3	3			
B2f Glucocorticoids	Dexamethazone B-methazone	Liver/Urine	Pigs	2	3	3	3			
B2f	Carbadox as 2-QCA Olaquinox	Liver	Pigs	Not set		0	0			
B3a Organochlorines/ PCBs		Kidney fat	Pigs	Various	5	5	5			
B3b Organophos- phorus compounds		Kidney fat	Pigs	Various	10	10	10			
B3c Chemical elements	Cadmium	Kidney	Pigs	1000	1	1	1			
	Lead			500	1	1	1			
	Cadmium	Muscle	Pigs	50		1	1			
	Lead			100		1	1			
B3d Mycotoxins	Aflatoxins	Liver	Pigs	Not set	5	5	5			
Total Samples					481					

* Extra samples to be targeted to Northern Ireland
Samples in blue tested for more than one substance

Northern Ireland 2008 Sheep Results Slaughter House

Group of Substances	Compounds	Material to be analysed	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A1 Stilbenes	DES, hexoestrol, dienooestrol	Urine	Sheep	Not set	6	6	6			
A2 Thyrostats	DMTU, MTU, PTU, PhTU, TAP, ETU, McpBzl, Thio	Urine	Sheep	Not set	3	3	3			
	Boldenone	Urine	Sheep	Not set	18	17	14	1.0, 1.9	Conjugated α-Bo 2.6	1
	Methyltestosterone	Urine	Sheep	Not set		17	17			
	Nortestosterone	Urine	Sheep	Not set		17	16		0.7, 6.8	2
	Stanazol	Urine	Sheep	Not set		17	17			
	Trenbolone	Urine	Sheep	Not set		17	17			
	Gestagens	Kidney fat	Sheep	Not set		4	4	4		
A4	Zeranol Taleranol	Urine	Sheep	Not set	6	6	6			
A5	Beta agonists	Liver	Sheep	Not set	12	12	12			
A6 Annex IV	Chloramphenicol	Kidney	Sheep	0.3	6	5	5			
	Dimetridazole	Kidney	Sheep	Not set	5	5	5			
	Metronidazole									
	Ronidazole									
	Nitrofurans (AOZ,AHD,SEM,AMOZ)	Kidney	Lamb	Not set	10	11	11			
B1 Antibacterial substances	Any antimicrobial agent	Kidney	Sheep	Various	120	120	120			
B1 Antibacterial substances	Sulphonamides	Kidney	Sheep	100	5	5	5			
B2a Anthelmintics	Benzimidazoles	Liver	Sheep	Various	36	37	37			
	Avermectins	Liver	Sheep	Various	24	24	24			
	Levamisole	Liver	Sheep	100	36	37	37			
B2b Coccidiostats	Ionophores	Liver	Sheep	Not Set	14	13	13			
B2c Pyrethroids		Kidney fat	Sheep	Not Set	24	22	22			
B2d Sedatives/ betablockers	Azaperone Azaperol Propionyl promazine Chlorpromazine	Liver/kidney	Sheep	Not Set	4	4	4			
B2e NSAIDS	Carprofen Vedaprofen	Kidney/Liver	Sheep	Not set	2	2	2			

Northern Ireland 2008 Sheep Results Slaughter House

Group of Substances	Compounds	Material to be analysed	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
B2f Glucocorticoids	Dexamethasone Betamethasone	Liver/Urine	Sheep	Not set	1	1	1			
B3a Organochlorine s/		Kidney fat	Sheep	Various	5	5	5			
B3b Organophosphorus		Kidney fat	Sheep	Various	24	24	24			
B3c Chemical elements	Cadmium	Kidney	Sheep	1000	2	2	0	14, 378		
	Lead			500	2	2	1	120		
	Cadmium	Muscle	Sheep	50		2	1	13		
	Lead			100		2	2	0		
B3d	Aflatoxins	Liver	Sheep	Not set	0	0	0			
Grand total samples					369					

Notes

1	Conjugated α -boldenone > 2 ppb was detected in the urine of one animal. No evidence of abuse was found at follow-up investigation.
2	α -Nortestosterone detected in the urine of two animals.

Northern Ireland 2008 Horse Results Slaughter House

Group of Substances	Compounds	Material to be analysed	Species	MRL µg/kg or µg/l	Planned Numbers	Number analysed	Number Less than LOQ	Concentration detected where samples were below the MRL/MRPL/Action Level (µg/kg)	Concentration detected where samples were above the MRL/MRPL/Action Level (µg/kg)	Note
A5	Beta agonists	Liver	Horses	Not set						1
A6 Annex IV	Dimetridazole Ronidazole Metronidazole	Kidney	Horses	Not set						1
B1 Antibacterial substances	Any antimicrobial agent	Kidney	Horses	Various						1
B2a Anthelmintics	Benzimidazoles	Liver	Horses	Various						1
	Avermectins	Liver	Horses	Various						1
	Levamisole	Liver	Horses							1
B2e	Phenylbutazone	Plasma	Horses	Not set						1
B3c Chemical elements	Cadmium/Lead	Muscle	Horses	200/100						1
Total Samples					0					

Notes

1	No horses slaughtered in Northern Ireland during 2008
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2008 NI Meat inspection samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle retina SH	β-agonists	3	3	-	
Cattle kidney	β-agonists	1	1	-	
Cattle urine SH	Hormones (22)	10	10	-	
Cattle liver SH	Nitroxynil	8	8	-	
Cattle plasma SH	Phenylbutazone	1	0	2.2	1
Cattle muscle SH	Flunixin	2	1	48	2
Sheep liver SH	Avermectins	3	3	-	
Cattle muscle SH	AMs	1569	-	N/A Qualitative test	
	Sulphomamides	1569	1568	4213	3
	Tetracyclines	1569	1567	114, 679	4
	Quinolones	1569	1568	231	5
Sheep muscle SH	AMs	20	-	N/A Qualitative test	
	Tetracyclines	20	19	191	4
Pig muscle SH	AMs	115	-	N/A Qualitative test	

Key:

SH	Slaughterhouse
OF	On farm
(n)	Number of samples with same concentration of analyte
Bold	Samples declared positive in excess of MRL or action level
AMs	Antimicrobials

Notes

1	Phenylbutazone was detected in a bovine following the finding of a National Plan positive for this substance. Carcase excluded from the food chain.
2	Flunixin detected above MRL. Carcases excluded from the food chain
3	Sulphadiazine detected above the MRL. Carcase excluded from the food chain
4	Oxytetracycline detected above MRL. Carcases excluded from the food chain
5	Marbofloxacin detected above the MRL. Carcase excluded from the food chain

2007 NI Follow-up samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Cattle serum OF	Progesterone	5	3	0.6	1
Cattle serum SH	Progesterone	5	3	0.74	2
Cattle urine OF	α-Nortestosterone	15	16	17.6	3
	Testosterone	20	20	-	
	Progesterone	4	4	-	
	α-Oestradiol	5	5	-	4
	α-Boldenone	18	18	-	
	β-Boldenone	18	18	-	
	Zeranol	11	6	2.3, 5.9, 6.9, 7.7, 10.6	
Taleranol	11	6	5.7, 8.8, 13.6 23.6, 30.9		
Cattle urine SH	α-Nortestosterone	4	4	-	
	Testosterone	28	28	-	
	Progesterone	6	6	-	
	α-Oestradiol	5	5	-	
Sheep urine OF (Male)	α-Nortestosterone	7	0	1.1, 1.4(2), 1.8, 2.2, 2.3, 2.8,	5
	β-Nortestosterone	7	3	0.3(3), 0.4,	
Pig Kidney OF	Antimicrobials	2	2	-	
	Nitroimidazoles	1	1		
	Carbadox	2	2		
	Nitrofurans	2	2		
	Chloramphenicol	2	2		
Pig Kidney OF	β-Agonists	2	2		
Pig Urine OF	Zeranol	1	1		
	Methyltestosterone	1	1		
Poultry feed OF	Nicarbazin	7	7	-	
Poultry Liver SH	Nicarbazin	3	3	-	

Key:

SH	Slaughterhouse
OF	On farm
(n)	Number of samples with same concentration of analyte

Notes

1	Progesterone above the action level was detected in the serum of a male bovine. The remaining 4 samples the farm were compliant.
2	Progesterone above the action level was detected in the serum of a male bovine.
3	α -Nortestosterone was detected in the urine from one female bovine. The animal was pregnant
4	Two of the five samples contained Zeranol and taleranol at levels that indicated that the animals did not belong to the normal population. This does not prove abuse and as a result investigatins were initiated that did not reveal any evidence of abuse.
5	α -Nortestosterone was detected in the urine from 5 male and 2 female sheep above the VMD Action Limits for male (1.0 ppb) and female (5 ppb) sheep. β -nortestosterone was also detected in one male and 2 females.

2008 NI Pig Testing Phase I samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Pig bile SH	Sulphonamides	4063	4056	N/A Qualitative test	
Pig kidney SH	AMs	4063		N/A Qualitative test	
	Sulphonamides	4063	4056	121, 129, 189, 194, 239, 366, 1345	1
	Tetracyclines	4063	4061	780, 849	2

Key:

SH	Slaughterhouse
(n)	Number of samples with same concentration of analyte
Bold	Samples declared positive in excess of MRL or action level
CTC	Chlortetracycline
SMT	Sulphamethazine
SDZ	Sulphadiazine

Notes

1	Sulphadiazine confirmed >MRL (100 µg/kg) in seven kidneys. Producers placed on intensive sampling programme.
2	Chlortetracycline detected in two pig kidneys above the MRL. Producers placed on intensive sampling programme

2007 NI Pig Testing Phase II samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level (µg/kg)	Note
Pig bile SH	Sulphonamides	343		N/A Qualitative test	
Pig Muscle SH	AMs	343	-	N/A Qualitative test	1
	Sulphonamides	343	310	SDZ 219, 254, 255, 258, 261, 265, 294(2), 322, 325, 339, 357, 365, 446, 466, 494, 501, 524, 545, 554, 612, 702, 726, 752, 792, 801, 824, 826, 839, 1021(2), 1167	

Key:

SH	Slaughterhouse
(n)	Number of samples with same concentration of analyte
Bold	Samples declared positive in excess of MRL or action level
SDZ	Sulphadiazine

Notes

1	Thirty three samples above the MRL for sulphadiazine. Carcasses excluded from the food chain.
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2007 NI extra testing on National Plan samples

Matrix	Analyte	No of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	
Cattle urine Young SH	Hormones (22)	184			1
	Zeranol	138	136	4.7, 9	2
	Taleranol	138	136	11, 23	2
	Testosterone	184	181	16, 31, 101	3
Cattle urine OTM SH	Hormones (22)	39			
	α-nortestosterone	39	38	19.4	4
	Zeranol	30	29	25	2
	Taleranol	30	29	51	2
Cattle urine Young OF	Hormones (22)	169			
	Zeranol	126	123	3.7, 11, 45	2
	Taleranol	126	123	1.2, 23, 124	2
	ADD	126	123	0.7, 0.8, 4.2	5
	α-Nortestosterone	43	42	7.3	6
Cattle urine OTM OF	Hormones (22)	9			
	α-nortestosterone	9	8	9.7	7
Sheep urine SH	Hormones (22)	23			
	α-Nortestosterone	6	5	0.7	8
Pig urine SH	Hormones (22)	35	35		

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	Samples are tested by an LC-MS/MS procedure which covers some 22 unauthorised hormonal growth promoters. The results below indicate the specific compounds detected.
2	Zeranol & taleranol were detected in six urine samples. The statistical model to determine whether or not zeranol abuse in cattle has occurred, developed at VSD, was applied to these results. It involves a linear regression analysis of the log ₁₀ of the (zeranol + taleranol) concentrations versus log ₁₀ of the Fusarium spp. toxin concentrations. Comparison is made to a "normal" population derived from the analysis of more than 8,000 field urine samples from 4 EU Member States (including Northern Ireland). The result of the statistical analysis suggests that zeranol abuse has not occurred and that it has arisen from metabolism of dietary Fusarium spp. toxins in three of the six samples. The zeranol/taleranol concentrations in 3 samples suggested that they were not from the normal population (concentrations shown in Table in red). These were investigated further by the Veterinary Service. No evidence of abuse was detected on farms, and animals were flagged for sampling at slaughter.
3	Testosterone detected in the urine of male cattle. A tentative Upper Limit of Normality has been established at 12 ppb in steer urine. Whilst concentrations above this level does not constitute proof of abuse, if the animals were castrated testosterone may have been administered. Follow-up samples were requested.

4	Urine from a cow contained α -nortestosterone above the action level this animal was pregnant at the time of sampling and gave birth four days latter.
5	ADD, a metabolite of boedenone was detected in the urine of 2 cattle but no boldenone was present. Follow-up samples were requested.
6	Urine from a young female contained a-nortestosterone above the action levels. The animal came from a small suckler herd and may have been pregnant at the time of sampling.
7	Urine from a cow contained a-nortestosterone above the action levels. The animal was pregnant at the time of sampling.
8	Urine from a male ovine contained α -nortestosterone above the action level.

2007 NI Bovine QA samples in detail

Matrix	Analyte	No of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/Action Level (µg/kg)	
Cattle retina SH	β-agonists	976	976	-	
Cattle urine SH	Ractopamine	359	359	-	
Cattle urine SH	Hormones	173			1
	Progesterone	173	171	15, 60	2
	Testosterone	173	167	12, 16, 20, 24, 54, 55	3
	Zeranol	173	172	0.7, 3.2	4
	Taleranol	173	169	1.2, 1.3, 1.9, 9.3	
	α-Zearalenol	173	172	3.7	
	β-Zearalenol	173	171	5.9, 21.5	
	ADD	173	171	0.4, 3.8	5
α-Nortestosterone	173	172	0.53	6	

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	Samples are tested by an LC-MS/MS procedure which covers some 22 unauthorised hormonal growth promoters. The results below indicate the specific compounds detected.
2	Progesterone detected in the urine of 2 males. During the year, a tentative Upper Limit of Normality was established at 8.4 ppb in steer urine. Whilst concentrations above this level does not constitute proof of abuse it does suggest that Progesterone may have been administered. Follow-up samples were requested.
3	Testosterone detected in the urine of 6 males. A tentative Upper Limit of Normality has been established at 12.0 ppb in steer urine. Whilst concentrations above this level does not constitute proof of abuse, if the animals were castrated testosterone may have been administered. Follow-up samples were requested.
4	Zeranol &/or taleranol detected in 4 urine samples. The statistical model to determine whether or not zeranol abuse in cattle has occurred, developed at VSD, was applied to these results. It involves a linear regression analysis of the log ₁₀ of the (zeranol + taleranol) concentrations versus log ₁₀ of the Fusarium spp. toxin concentrations. Comparison is made to a "normal" population derived from the analysis of more than 8,000 field urine samples from 4 EU Member States (including Northern Ireland). The result of the statistical analysis suggests that zeranol abuse has not occurred and that they had arisen from metabolism of dietary Fusarium spp. toxins.
5	ADD, a metabolite of boedenone was detected in the urine of 2 cattle but no boldenone was present. Follow-up samples were requested.
6	α -Nortestosterone was detected in the urine of one male bovine at meat plants. Follow up initiated.

2008 NI Survey samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action level	Concentration detected above the MRL/Action Level ($\mu\text{g}/\text{kg}$)	Note
CattleLiver SH	Imidocarb	38	38	-	

Key:

SH	Slaughterhouse
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2008 Import samples in detail

Matrix	Analyte	Number of samples analysed	Less than MRL/Action Level	Concentration detected above the MRL/ FSA Action Level (µg/kg)	Note
Prawn	Nitrofurans metabolites	2	2	-	
Prawn	Chloramphenicol	2	2	-	
Poultry Muscle	Nitroimidazoles	1	1	-	
Poultry Muscle	Nitrofurans metabolites	2	2	-	
Poultry Muscle	Chloramphenicol	2	2	-	