

Northern Ireland 2010 Milk 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
A6	Chloramphenicol	Bovine	Milk	Not set	90	91	91	-	-	
B1	Antibacterial substances	Bovine	Milk	Various	90	94	94	-	-	
B1	Cephalosporins	Bovine	Milk	Various	50	94	94	-	-	
B1	Quinolones	Bovine	Milk	100	40	94	94	-	-	
B1	Sulphonamides	Bovine	Milk	100	33	35	35	-	-	
B2a	Avermectins	Bovine	Milk	Not set	51	37	37	-	-	
B2a	Benzimidazoles	Bovine	Milk	Various	11	11	11	-	-	
B2a	Levamisole	Bovine	Milk	Not set	11	11	11	-	-	
B2a	Nitroxylin	Bovine	Milk	Not set	115	112	108		1.2, 1.4, 4.0, 8.8	1
B2e	Phenylbutazone	Bovine	Milk	Not Set	27	27	27	-	-	
B2e	Flunixin	Bovine	Milk	40	11	11	11	-	-	
B3a	Organochlorines/ PCBs	Bovine	Milk	Not set	7	8	8	-	-	
B3b	Organophosphates	Bovine	Milk	Not set	5	5	5	-	-	
B3c	Cadmium	Bovine	Milk	Not set	3	3	3	-	-	
B3c	Lead	Bovine	Milk	20	3	3	3	-	-	
B3d	Aflatoxin M1	Bovine	Milk	0.05	6	40	40	-	-	

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
A6	Chloramphenicol	Caprine	Milk	Not set	3	3	3	-	-	
B1	Antibacterial substances	Caprine	Milk	Various	2	2	2	-	-	
B1	Cephalosporins	Caprine	Milk	Various	2	2	2	-	-	
B1	Quinolones	Caprine	Milk	100	1	2	2	-	-	
B1	Sulphonamides	Caprine	Milk	100	1	3	3	-	-	
B2a	Avermectins	Caprine	Milk	Not set	1	0		-	-	
B2a	Benzimidazoles	Caprine	Milk	Various	1	0		-	-	

Notes

1	Nitroxylin detected in four milk samples.
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Northern Ireland 2010 Egg 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	Eggs	Not Set	11	12	12			
A6	Dimetridazole	Eggs	Not Set	10	16	16			
A6	Nitrofurans	Eggs	Not Set	11	9	9			
B1	Antimicrobial Screen	Eggs	Not Set	16	32	32			
B1	Tetracyclines	Eggs	Not Set	16	32	32			
B2b	Nicarbazin	Eggs	100	21	36	36			
B2b	Ionophores	Eggs	Various	15	36	36			
B2c	Pyrethroids	Eggs	50	2	0				
B3a	Organochlorines/PCBs	Eggs	Various	8	8	8			

Northern Ireland 2010 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
A6	Chloramphenicol	Salmon	Skin+muscle	Not Set	2	1	1	-	-	
B3e	Dyes	Trout	Skin+muscle	Not Set	4	5	5	-	-	
B3e	Dyes	Salmon	Skin+muscle	Not Set	1	1	1	-	-	

Northern Ireland 2010 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	23	21	21			
A5	Beta-agonists	Turkeys	Feed	Not set	1	1	1			
A6	Dimetridazole	Broilers	Feed	Not set	23	21	21			
A6	Dimetridazole	Turkeys	Feed	Not set	2	0				
A6	Nitrofurans	Broilers	Feed	Not set	23	18	18			
A6	Nitrofurans	Turkeys	Feed	Not set	2	2	2			
Total Samples					74					

Northern Ireland 2009 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	17	36	36			
A1	DES	Turkeys	Liver/serum	Not set	1	3	3			
A3	Trenbolone	Broilers	Liver/serum	Not set	17	17	17			
A3	Trenbolone	Turkeys	Liver/serum	Not set	1	1	1			
A4	Zeranol	Broilers	Liver/serum	Not set	22	36	36			
A4	Zeranol	Turkeys	Liver/serum	Not set	1	3	3			
A5	B-agonists	Broilers	Liver	Not set	47	44	44			
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	47	44	44			
A6	Chloramphenicol	Hens	Muscle	Not Set	1	0				
A6	Chloramphenicol	Turkeys	Muscle	Not Set	2	1	1			
A6	Nitroimidazoles	Broilers	Liver	Not Set	80	70	70			
A6	Nitroimidazoles	Hens	Liver	Not Set	1	1	1			
A6	Nitroimidazoles	Turkeys	Liver	Not Set	5	3	3			
A6	Nitrofurans	Broilers	Muscle	Not Set	47	43	43			
A6	Nitrofurans	Hens	Muscle	Not Set	1	0				
A6	Nitrofurans	Turkeys	Muscle	Not Set	6	5	5			
B1	Antimicrobial Screen	Broilers	Muscle	Various	127	146	146			
B1	Antimicrobial Screen	Hens	Muscle	Various	1	0				
B1	Antimicrobial Screen	Turkeys	Muscle	Various	8	11	11			
B1	Sulphonamides	Broilers	Muscle	100	31	79	79			
B1	Sulphonamides	Hens	Muscle	100	1	0				

Northern Ireland 2009 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
B1	Sulphonamides	Turkeys	Muscle	100	3	4	4			
B1	Quinolones	Broilers	Muscle	Various	50	50	50			
B1	Quinolones	Turkeys	Muscle	Various	3	11	11			
B2a	Benzimidazoles	Broilers	Liver	Various	15	29	29			
B2a	Benzimidazoles	Hens	Liver	Various	1	1	1			
B2a	Benzimidazoles	Turkeys	Liver	Various	4	4	4			
B2a	Levamisole	Broilers	Liver	100	15	31	31			
B2a	Levamisole	Hens	Liver	100	1	1	1			
B2b	Nicarbazin	Broilers	Liver	15,000	34	66	63		222, 265, 523	1
B2b	Nicarbazin	Turkeys	Liver	15,000	2	2	2			
B2b	Ionophores	Broilers	Liver	Not Set	34	65	65			
B2b	Ionophores	Turkeys	Liver	Not Set	2	2	2			
B2c	Carbamates/Pyrethroids	Broilers	Liver	Not Set	6	6	6			
B2c	Carbamates/Pyrethroids	Turkeys	Liver	Not Set	1	1	1			
B3a	Organochlorines/PCBs	Broilers	Liver	Various	26	22	22			
B3a	Organochlorines/PCBs	Turkeys	Liver	Not set	2	1	1			
B3c	Cadmium	Broilers	Liver	500	7	7	1	10, 35, 41, 42, 65, 170		
B3c	Lead	Broilers	Liver	500	7	7	7			
B3c	Arsenic	Broilers	Liver	Not set	7	7	7			
B3d	Aflatoxins	Broilers	Liver	Various	2	1	1			

Notes

1

New EU MRL introduced for nicarbazin during the year. These results were reported prior to this.

Northern Ireland 2010 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	21	35	35			
A1	Stilbenes	Urine	Cows OTMS	Not set	6	8	8			
A2	Thyrostats	Urine	Cattle (y.b.)	Not set	23	21	19		Thiouracil 4.5, 7.2	1
A2	Thyrostats	Urine	Cows OTMS	Not set	4	4	4			
A3	Trenbolone	Urine	Cattle (all)	Not set	45	59	59			
A3	Trenbolone	Urine	Cows OTMS	Not set	15	29	29			
A3	Progesterone	Urine	Cattle (m)	Not set	27	27	27			
A3	Oestradiol	Serum	Cattle (m)	Not set	49	40	4			
A3	Testosterone	Serum	Cattle(f)	Not set	36	36	35		8.1	2
A3	Testosterone	Serum	Cows OTMS	Not set	13	12	12			
A3	Nortestosterone	Urine	Cattle(y.b.)	Not set	60	59	59			
A3	Methyltestosterone	Urine	Cattle (all)	Not set	60	59	59			
A3	Methyltestosterone	Urine	Cows OTMS	Not set	31	29	29			
A3	Stanzol	Urine	Cattle (all)	Not set	60	59	59			
A3	Stanzol	Urine	Cows OTMS	Not set	31	29	29			
A3	Gestagens	Serum	Cattle (y.b.)	Not set	36	23	23			
A3	Gestagens	Serum	Cows OTMS	Not set	13	5	5			
A3	α-Boldenone	Urine	Cattle (y.b.)	Not set	15	59	58		Conj 19.7 Free 3.1	3
A3	α-Boldenone	Urine	Cows OTMS	Not set	16	29	26		Conj 2.6, 3.7, 5.2. <CCα, 0.6, <Cca	Free 4
A4	Zeranol	Urine	Cattle (y.b.)	Not set	21	35	35			
A4	Zeranol	Urine	Cows OTMS	Not set	5	8	8			
A5	Beta agonists	Feed	Cattle (y.b.)	Not set	28	41	41			
A5	Beta agonists	Feed	Cows OTMS	Not set	13	13	13			
A5	Beta agonists	Urine	Cattle (y.b.)	Not set	25	50	50			
A5	Beta agonists	Urine	Cows OTMS	Not set	4	8	8			
A6	Chloramphenicol	Urine	Cattle(all)	Not set	20	20	20			
A6	Chloramphenicol	Urine	Cows OTMS	Not set	18	10	10			
A6	Nitrofurans	Feed	Cattle(all)	Not set	22	22	22			
A6	Nitrofurans	Feed	Cows OTMS	Not set	4	4	4			

Northern Ireland 2010 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	46	55	55			
A1	Stilbenes	Urine	Cows OTMS	Not Set	8	8	8			
A2	Thyrostats	Urine	Cattle (y.b.)	Not Set	21	21	20		Thiouracil 13	5
A2	Thyrostats	Urine	Cows OTMS	Not Set	6	6	6			
A3	Trenbolone	Urine	Cattle (all)	Not set	55	48	48			
A3	Trenbolone	Urine	Cows OTMS	Not Set	36	30	30			
A3	Progesterone	Urine	Cattle (m)	Not set	27	29	29			
A3	Oestradiol	Serum	Cattle (m)	Not set	27	25	25			
A3	Testosterone	Serum	Cattle(f)	Not set	31	40	40			
A3	Testosterone	Serum	Cows OTMS	Not Set	12	12	12			
A3	Nortestosterone	Urine	Cattle (all)	Not set	49	48	48			
A3	Methyltestosterone	Urine	Cattle (all)	Not set	55	48	48			
A3	Methyltestosterone	Urine	Cows OTMS	Not set	36	30	30			
A3	Stanozolol	Urine	Cattle (all)	Not set	55	48	48			
A3	Stanozolol	Urine	Cows OTMS	Not set	36	30	30			
A3	Gestagens	Kidney fat	Cattle (y.b.)	Not set	31	23	23			
A3	Gestagens	Kidney fat	Cows OTMS	Not Set	12	3	3			
A3	Boldenone	Urine	Cattle (y.b)	Not set	13	48	48			
A3	Boldenone	Urine	Cows OTMS	Not Set	19	20	20			
A4	Zeranol	Urine	Cattle (y.b)	Not Set	46	55	55			
A4	Zeranol	Urine	Cows OTMS	Not Set	8	8	8			
A5	Beta agonists	Liver/retina	Cattle (y.b)	Not Set	73	86	86			
A5	Beta agonists	Liver/retina	Cows OTMS	Not Set	13	13	13			
A6	Chloramphenicol	Kidney	Cattle (y.b)	Not set	20	20	20			
A6	Chloramphenicol	Kidney	Cows OTMS	Not set	18	17	17			
A6	Nitroimidazoles	Kidney	Cattle (y.b)	Not set	21	21	21			
A7	Nitroimidazoles	Kidney	Cattle OTMS	Not set	6	5	5			
A6	Nitrofurans	Kidney	Cattle	Not set	21	21	21			
A6	Nitrofurans	Kidney	Cows OTMS	Not set	6	5	5			

B1	Antibacterial substances	Kidney	Cattle	Various	156	184	184			
B1	Antibacterial substances	Kidney	Cows OTMS	Various	91	91	91			
B1	Sulphonamides	Kidney	Cattle	100	34	33	33			
B2a	Benzimidazoles	Liver	Cattle (all)	Various	40	79	79			
B2a	Avermectins	Liver	Cattle (all)	Various	54	48	48			
B2a	Levamisole	Liver	Cattle (all)	100	39	83	83			
B2b	Ionophores	Liver	Calves	Not Set	0					
B2c	Pyrethroids	Kidney fat	Cattle	Various	5	5	5			
B2d	Sedatives	Kidney	Cattle	Various	8	5	5			
B2d	β-Blockers	Kidney	Cattle	15	8	5	5			
B2e	NSAIDS	Liver	Cattle	Not set	81	81	81			
B2e	NSAIDS	Liver	Cows OTMS	Not Set	24	22	22			
B2e	Phenylbutazone	Plasma	Cattle	Not set	81	90	90			
B2e	Phenylbutazone	Plasma	Cows OTMS	Not Set	24	24	24			
B2f	Corticosteroids	Liver	Cattle	Various	15	14	14			
B2f	Corticosteroids	Liver	Cows OTMS	Various	35	35	35			
B3a	Organochlorines/PCBs	Kidney fat	Cattle	Various	13	12	12			
B3b	Organophosphates	Kidney fat	Cattle	Various	36	32	32			
B3b	Organophosphates	Kidney fat	Cows OTMS	Various	3	3	3			
B3c	Cadmium	Kidney	Cows OTMS	1000	8	8	0	149, 315, 741, 755	1536, 1690, 1948, 2150	6
B3c	Lead	Kidney	Cows OTMS	500	8	8	7	130		
B3c	Arsenic	Kidney	Cows OTMS	1000	8	8	3	11, 16, 38, 44, 148		
B3c	Cadmium	Muscle	Cows OTMS	50	8	8	7	10		
B3c	Lead	Muscle	Cows OTMS	100	8	8	8			
B3c	Arsenic	Muscle	Cows OTMS	1000	8	8	5	9, 28, 42		
B3d	Aflatoxins	Liver	Cattle	Not set	5	4	4			

Notes

1	Thiouracil detected in the urine of two samples collected on-farm. Follow-up samples collected in all cases were compliant.
2	Testosterone detected above action level in a young female. Follow-up samples compliant.
3	Conjugated α-Boldenone was detected in a young female above EU action level. Follow-up samples compliant.
4	Conjugated α-Boldenone was detected in two OTM females above EU action level. Follow-up was initiated.
5	Thiouracil detected in the urine of one sample collected at slaughter. Follow-up samples collected in all were compliant.
6	Cadmium was detected above the MRL in the kidney of 4 cows. Muscle samples from these four animals were compliant

Northern Ireland 2010 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	2	2			
A5	Beta agonists	Feed	Pigs	Not set	4	4	4			
A6	Nitofurans	Feed	Pigs	Not set	1	1	1			
A6	Nitroimidazoles	Feed	Pigs	Not set	1	1	1			

Northern Ireland 2010 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	13	28	28			
A2	Thyrostats	Urine	Pigs (all)	Not set	8	8	8			
A3	Altrenogest	Kidney fat	Pigs (all)	Not set	8	8	8			
A3	Methyltestosterone	Urine	Pigs (all)	Not set	8	13	13			
A3	Stanozolol	Urine	Pigs (all)	Not set	8	13	13			
A3	Trenbolone	Urine	Pigs (all)	Not set	8	13	13			
A4	Zeranol	Urine	Pigs (all)	Not set	13	28	28			
A5	Beta agonists	Liver	Pigs (all)	Not set	33	33	33			
A6	Chloramphenicol	Kidney	Pigs (all)	Not set	22	21	21			
A6	Nitroimidazoles	Kidney	Pigs (all)	Not set	21	20	20			
A6	Nitrofuran metabolites	Kidney	Pigs (all)	Not set	28	28	28			
B1	Antibacterial substances	Kidney	Pigs(all)	Various	77	154	154			
B1	Sulphonamides	Kidney	Pigs(all)	100	77	74	74			
B2a	Benzimidazoles	Liver	Pigs	Various	9	18	18			
B2a	Levamisole	Liver	Pigs	100	9	18	18			
B2a	Avermectins	Liver	Pigs	Various	19	19	19			
B2b	Ionophores	Liver	Pigs	Not Set	9	9	9			
B2c	Pyrethroids	Kidney fat	Pigs	Not Set	7	7	7			
B2c	Carbamates	Kidney fat	Pigs	Not Set	7	7	7			
B2d	Sedatives	Kidney	Pigs	100	16	16	16			
B2d	Carazolol	Liver	Pigs	25	16	16	16			
B2e	NSAIDs	Liver	Pigs	Not Set	4	4	4			

B2f	Corticosteroids	Liver	Pigs	2	4	4	4			
B2f	QCA/MeQCA	Liver	Pigs	Not set	25	25	25			
B3a	Organochlorines/PCBs	Kidney fat	Pigs	Various	6	5	5			
B3b	Organophosphates	Kidney fat	Pigs	Various	13	12	12			
B3c	Cadmium	Kidney	Pigs	1000	1	1	0	170		
B3c	Lead	Kidney	Pigs	500	1	1	1			
B3c	Arsenic	Kidney	Pigs	1000	1	1	1			
B3c	Cadmium	Muscle	Pigs	50	1	1	1			
B3c	Lead	Muscle	Pigs	100	1	1	1			
B3c	Arsenic	Muscle	Pigs	50	1	1	1			
B3d	Aflatoxins	Liver	Pigs	Not set	6	5	5			

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

Northern Ireland 2010 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	Urine	Sheep	Not set	3	5	5			
A2	Thyrostats	Urine	Sheep	Not set	3	2	2			
A3	α-Boldenone	Urine	Sheep	Not set	6	8	8			
A3	Methyltestosterone	Urine	Sheep	Not set	6	8	8			
A3	α/β-Nortestosterone	Urine	Sheep	Not set	6	8	8			
A3	Stanozolol	Urine	Sheep	Not set	6	8	8			
A3	Trenbolone	Urine	Sheep	Not set	6	8	8			
A3	Gestagens	Kidney fat	Sheep	Not set	4	2	2			
A4	Zeranol/Talaranol	Urine	Sheep	Not set	3	5	5			
A5	Beta agonists	Liver	Sheep	Not set	10	8	8			
A6	Chloramphenicol	Kidney	Sheep	0.3	5	5	5			
A6	Nitroimidazoles	Kidney	Sheep	Not set	4	4	4			
A6	Nitrofurans	Kidney	Lamb	Not set	8	7	7			
B1	Any antimicrobial agent	Kidney	Sheep	Various	101	91	91			
B1	Sulphonamides	Kidney	Sheep	100	4	3	3			
B2a	Benzimidazoles	Liver	Sheep	Various	21	28	28			
B2a	Avermectins	Liver	Sheep	Various	21	18	18			
B2a	Levamisole	Liver	Sheep	100	10	3	3			
B2b	Coccidiostats	Liver	Sheep	Not Set	12	11	11			
B2c	Pyrethroids	Kidney fat	Sheep	Not Set	21	17	17			
B2d	Sedatives	Kidney	Sheep	Various	4	4	4			
B2e	NSAIDs	Liver	Sheep	Not set	2	0				
B2f	Corticosteroids	Liver	Sheep	Not set	1	1	1			
B3a	Organochlorines/PCBs	Kidney fat	Sheep	Various	5	5	5			
B3b	Organophosphates	Kidney fat	Sheep	Various	22	32	32			
B3c	Cadmium	Kidney	Sheep	1000	2	2	0	2, 31		
B3c	Lead	Kidney	Sheep	500	2	2	2			
B3c	Arsenic	Kidney	Sheep	1000	2	2	0	10, 64		
B3c	Cadmium	Muscle	Sheep	50	2	2	2			
B3c	Lead	Muscle	Sheep	100	2	2	2			
B3c	Arsenic	Muscle	Sheep	1000	2	2	1	125		
B3d	Aflatoxins	Liver	Sheep	Not set	0					

Notes

Northern Ireland 2010 Farmed Game 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
B1	Antibacterial substances	Kidney	Farmed Deer	Various	2	2	2			
B2a	Benzimidazoles	Liver	Farmed Deer	Various	2	2	2			
B2a	Levamisole	Liver	Farmed Deer	Not Set	2	2	2			

Northern Ireland 2010 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	0	0				
A6	Nitroimidazoles	Kidney	Horses	Not set	0	0				
B1	Antimicrobial agents	Kidney	Horses	Various	0	0				
B2a	Benzimidazoles	Liver	Horses	Various	0	0				
B2a	Avermectins	Liver	Horses	Various	0	0				
B2a	Levamisole	Liver	Horses	Not set	0	0				
B2e	Phenylbutazone	Plasma	Horses	Not set	0	0				
B3c	Cadmium	Muscle	Horses	200	0	0				
B3c	Lead	Muscle	Horses	100	0	0				

2010 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	142			
	ADD	142	141	0.7	1
	α-Boldenone	83	83		
	Testosterone	142	140	17	2
	Zeranol/Taleranol	107	107	2.4	3
Cattle urine OTM SH	Hormones	30			
	α-Nortestosterone	30	29	7.2	4
Cattle urine Young OF	Hormones	120			
	Zeranol/Taleranol	85	83	7.2 (Z), 19 (T)	5
Cattle urine OTM OF	Hormones	30			
	α-Nortestosterone	30	28		
Sheep urine SH	Hormones	15	15		
Pig urine SH	Hormones	14	14		

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

Notes

1	ADD was detected in the urine of one young bovine. ADD is a metabolite of boldenone but no boldenone itself was detected. Follow-up samples were collected and all were compliant.
2	Testosterone detected in the urine of one steer. 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.
3	Taleranol was detected in the urine of one young bovine at slaughter. A model developed in distinguishing between possible abuse and natural contamination suggested that the result was due to naturally-occurring <i>Fusarium</i> toxin metabolism.
4	Urine from a cow contained α-nortestosterone above VMD action level. Follow-up compliant.
5	Zeranol & taleranol were detected in the urine of a young bovine on-farm. A model developed in distinguishing between possible abuse and natural contamination suggested that the result may have been due to abuse. Follow -up samples were collected all were compliant.

2010 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	1	1		
Cattle urine SH	Hormones	18	18		
	Thyrostats	11	11		
	Corticosteroids	1	1		
	Nitroxylnil	4	3	516	1
Cattle muscle SH	Antimicrobial agents	1587			
	Aminoglycosides	4	4		
	Penicillins	11	8	Ampicillin 430, Amoxicillin 184, Pen G 3570	2
	Quinolones	4	3	Marbofloxacin 253	3
	Sulphonamides	1	0	SMT 11500	4
	Tetracyclines	12	2	OTC 129, 135, 144, 145, 147, 168, 227, 292, 547, 576	5
Sheep muscle SH	Antimicrobial agents	2	2		
Pig muscle SH	Antimicrobial agents	96	91		
	Tetracyclines	1	1		
	Penicillins	4	4		
Horse Muscle	Antimicrobial agents	1	1		

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
OTC	Oxytetracycline
SMT	Sulphamethazine
Pen G	Penicillin G

Notes

1	Nitroxylnil was detected above MRL. Carcasses excluded from the food chain
2	Penicillins detected above MRL. Carcasses excluded from the food chain
3	Marbofloxacin detected above MRL. Carcasse excluded from the food chain
4	Sulphamethazine detected above MRL. Carcasse excluded from the food chain
5	Oxytetracycline detected above MRL. Carcasses excluded from the food chain

2010 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	996	996		
Cattle urine SH	Ractopamine	744	744		
Cattle urine SH	Hormones	166			1
	Testosterone	166	163	16, 31	2
	Taleranol	166	165	1.6	3
Cattle Kidney SH	Antimicrobials	993	993		

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

Notes

1	Samples are tested by an LC-MS/MS procedure which covers some 25 unauthorised hormonal growth promoters. The results below indicate the specific compounds detected.
2	Testosterone detected in the urine of 2 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.
3	Zeranol &/or taleranol detected in 3 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.

2010 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	4303	4283	N/A Qualitative test	
Pig kidney SH	Sulphonamides	449	438	N/A Qualitative test	
Pig kidney SH	AMs	4713	4539	N/A Qualitative test	
	Aminoglycosides	4	1	Dihystrep 3175, 3750, 4298	1
	Quinolones	7	6	Marb 200	2
	Sulphonamides	31	31		
	Tetracyclines	163	161	CTC 664, 1436	3

Key:

SH	Slaughterhouse
(n)	Number of samples with same concentration of analyte
Bold	Samples declared positive in excess of MRL or action level
Dihystrep	Dihydrostreptomycin
CTC	Chlortetracycline
Marb	Marbofloxacin

Notes

1	Dihydrostreptomycin confirmed >MRL (1000 µg/kg) in three kidneys. Producers placed on intensive sampling programme.
2	Marbofloxacin confirmed >MRL (150 µg/kg) in one kidney. Producer placed on intensive sampling programme.
3	Oxytetracycline confirmed >MRL (100 µg/kg) in two kidneys. Producers placed on intensive sampling programme.

2010 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	563	550	N/A Qualitative test	
Pig Muscle SH	AMs	563	559	N/A Qualitative test	
	Sulphonamides	13	12	SDZ 529	1

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	One sample above the MRL for sulphadiazine. Carcase excluded from the food chain.
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2010 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	Testosterone	6	6		
Cattle serum SH	Progesterone	5	5		
Cattle Urine OF	Thyrostats	11	11		
Cattle urine OF	Testosterone	34	34	40	1
	α-Boldenone	11	10	0.7 Free, 4.7Conj	2
	β-Boldenone	11	11		
	Zeranol	5	5		
Cattle urine SH	ADD	3	3		
	α-Nortestosterone	8	8		
	α-Boldenone	4	4		
	β-Boldenone	4	4		
	Testosterone	9	9		
Sheep urine SH (Male)	α-Boldenone	2	2		
	β-Boldenone	2	2		
	α-Nortestosterone	26	26		
	β-Nortestosterone	26	26		
Cattle Milk OF	Nitroxynil	4	1	2.6, 6.8, 7.9	3
Cattle Kidney	Cadmium	5	3	1888, 2405	4
Cattle Liver	Cadmium	2	2		
Cattle Muscle	Cadmium	10	10		

Key:

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

Notes

1	Testosterone detected in the urine of male bovine 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.
2	Conjugated α-Boldenone detected in one sample above EU suspicious level.
3	Nitroxynil detected in three samples
4	Cadmium was detected above the action level in kidney from two cattle. The corresponding muscle samples from these two animals were compliant.

2010 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
Cattle Liver SH	Imidocarb	167	167		

Key:

SH	Slaughterhouse
OF	On Farm

2010 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	Nitrofuran metabolites	1	1		
Prawn	Chloramphenicol	1	1		