

Annual Report on Surveillance
for Veterinary Residues in the UK, 2007

Tables containing results of surveillance
submitted from other sources

Retailer 1

Analysis	Matrix	Species	Analyses	Positives
Antimicrobial	Kidney	Sheep	71	
Antimicrobial	Kidney	Cattle	11	
Avermectins	Liver	Cattle	4	
Avermectins	Liver	Sheep	21	
Benzimidazoles	Liver	Cattle	3	
Benzimidazoles	Liver	Sheep	24	
Beta-agonists	Liver	Sheep	12	
Beta-agonists	Liver	Cattle	8	
Boldenone	Urine	Cattle	2	
Cadmium	Kidney	Sheep	2	
Chloramphenicol	Kidney	Cattle	4	
Chloramphenicol	Kidney	Sheep	6	
Dimetridazole	Kidney	Cattle	4	
Dimetridazole	Kidney	Sheep	5	
Gestagens	Kidney fat	Cattle	3	
Gestagens	Kidney fat	Sheep	4	
Glucocorticoids	Liver	Cattle	1	
Ionophores	Liver	Sheep	14	
Lead	Kidney	Sheep	2	
Levamisole	Liver	Sheep	11	
Levamisole	Liver	Cattle	2	
Methyltestosterone	Urine	Sheep	5	
Nitrofurans	Kidney	Sheep	8	
Nitrofurans	Kidney	Cattle	2	
Nortestosterone	Urine	Sheep	6	
Nortestosterone	Urine	Cattle	6	
NSAIDS	Kidney	Cattle	4	
NSAIDS	Kidney	Sheep	1	
OC / PCBs	Kidney fat	Sheep	6	
Oestradiol	Serum	Cattle	4	
Organophosphates	Kidney fat	Sheep	26	
Organophosphates	Kidney fat	Cattle	2	
Phenylbutazone	Plasma	Cattle	3	1
Progesterone	Serum	Cattle	5	
Pyrethroids	Kidney Fat	Cattle	1	
Pyrethroids	Kidney fat	Sheep	26	
Sedatives	Liver	Cattle	1	
Sedatives	Liver	Sheep	5	
Stilbenes	Urine	Sheep	4	
Stilbenes	Urine	Cattle	5	
Sulphonamides	Kidney	Cattle	2	
Sulphonamides	Kidney	Sheep	5	
Testosterone	Serum	Cattle	5	
Thyrostats	Urine	Cattle	3	
Thyrostats	Urine	Sheep	4	
Trenbolone	Urine	Sheep	7	
Trenbolone	Urine	Cattle	8	
Zeranol	Urine	Cattle	2	
Zeranol	Urine	Sheep	4	

Retailer 2

Food	Analyses completed	Residues Found (in µg/kg)
Salmon Fillets		Not Detected
Salmon Fillets		Not Detected
Salmon Fillets		Not Detected
Salmon Side Fillet		Not Detected
Salmon Steaks		Not Detected
Salmon Steaks		Not Detected
Organic Salmon Fillets		Not Detected
Organic Salmon Fillets		Not Detected
Rainbow Trout		Not Detected
Rainbow Trout		Not Detected
Trout		Not Detected
Trout		Not Detected
Seabass Fillet	Antimicrobial Screen	Not Detected
Seabass Fillet with Roasted Fennel	Avermectins	Not Detected
Sea Bream	Benzimidazoles	Not Detected
Tilapia Fillet	Malachite Green &	Not Detected
Barramundi	Leucomalachite Green	Not Detected
Barramundi	Crystal Violet	Not Detected
Cod Loin	Chloramphenicol	Not Detected
Smoked Salmon & Charlotte Potatoes with a	Nitrofurans Quinolones	Not Detected
Smoked Salmon & Charlotte Potatoes with a	&	Not Detected
warm green bean and spinach salad	Fluoroquinolones	Not Detected
Salmon with Mozzarella & tomato crust	Cypermethrin	Screen Positive - Confirmatory Tests Not Detected.
Wild Salmon EnCrout		Not Detected
Cod Mornay		Not Detected
Smoked Haddock		Not Detected
Cape Hake in white wine sauce		Screen Positive - Confirmatory Tests Not Detected.
Salmon Fillet & Tarragon		Not Detected
Raw King Prawns		Not Detected
King Prawns		Screen Positive - Confirmatory Tests Not Detected.
Large Warm Water Prawns		Furazolidone = 0.9µg/kg
Tiger Prawns		Furazolidone = 0.9µg/kg
Raw Jumbo Prawns	Antimicrobial Screen	Not Detected
Large King Prawns	Chloramphenicol Nitrofurans	Not Detected
Jumbo King Prawns		Not Detected
Raw Peeled Jumbo King Prawns		Not Detected
King Prawns with fruit Tabbouleh and		Not Detected
pomegranite dressing		Not Detected
King Prawn & Rocket Sandwich		Not Detected
King Prawn & Rocket Sandwich		Not Detected
Veal Escolope	Antimicrobial Screen	Not Detected
Pork Kidneys	Avermectins Benzimidazoles	Not Detected
Pork Kidneys	B-agonists Levamisole	Screen Positive - Confirmatory Tests Not Detected.
Stewing Steak	Tranquillisers	Not Detected
Rump Steak	Trenbolone	Not Detected
Half Shoulder Lamb	B-agonists	Not Detected
Whole Leg of Lamb	Levamisole	Not Detected
Pork Sausages	Antimicrobial Screen	Not Detected
Pork Sausages	Chloramphenicol	Not Detected

Retailer 2 (cont'd)

Food	Analyses completed	Residues Found (in µg/kg)	
Whole Duck with Pancakes & Hoisin Sauce	Antimicrobial Screen Nitrofurans Chloramphenicol Nicarbazin Lasoloscid Nitroimidazoles Tetracyclines Quinolones & Fluoroquinolones Ionophores	Not Detected	
Whole Duck with Pancakes & Hoisin Sauce		Not Detected	
Chicken Kiev with garlic & parsley		Not Detected	
Cheese & Smoked Ham Chicken Kiev		Not Detected	
Turkey Breast Fillets		Not Detected	
Turkey Breast Fillets		Not Detected	
Boneless Chicken Breast		Nicarbazin = 330µg/kg	
Chicken & pumpkin seed satay salad		Not Detected	
Chicken & Stuffing Sandwich		Not Detected	
Chicken Salad Sandwich Filler		Not Detected	
Cheese		Tetracyclines Sulphonamides	Not Detected
Cheddar Cheese		Chloramphenicol	Not Detected
Honey		Nitrofurans Chloramphenicol Sulphonamides Tetracyclines	Not Detected
Honey	Not Detected		
Honey	Not Detected		
Honey	Not Detected		
Honey	Screen Positive - Confirmatory Tests		
Honey	Not Detected.		
Honey	Not Detected		
Honey	Not Detected		
Honey	Not Detected		
Honey	Not Detected		

68 samples

Substances covered by Retailer 2

Antimicrobial Screen

Sulphonamides
B-lactams
Tetracyclines

Avermectin Screen

Abamectin
Doramectin
Ememectin
Eprinomectin
Ivermectin
Moxidectin

Benzimidazol Screen

Albendazole
Oxfendazole
Thiabendazole
Fendazole

Fluoroquinolone Screen

Ciprofloxacin
Enrofloxacin
Sarafloxacin

Ionophore Screen

Monesin
Narasin
Salomycin

Nitroimidazole Screen

Dimetridazole
Metronidazole
Ronidazole

Quinolone Screen

Oxolonic Acid
Nalidixic Acid
Flumequine

Retailer 3

Class of compound Compound	Reporting Level (µg/kg)	MRL (if set) or other statutory level (µg/kg)	Number of samples
Veterinary Drugs			
Avermectin	2.0		39
Levamisole	5.0		39
Organochlorine Pesticides			
Aldrin, Hexachlorobenzene	10.0	10	58
a-HCH, Endosulfan	4.0	4	58
b-HCH	3.0	3	58
γ-HCH (Lindane)	8.0	8	58
Chlordane (cis, trans & oxychlordane)	2.0	2	58
DDT	40.0	40	58
Dieldrin	6.0	6	58
Endrin	0.8	0.8	58
Heptachlor (and cis & trans heptachlor epoxide)	4.0	4	58
Organophosphorus Pesticides			
Acephate, Diazinon, Dichlorvos	20.0	20	19
Chlorfenvinphos	8.0	8	19
Chlorpyrifos & Chlorpyrifos-methyl	10.0	10	19
Methamidophos, Propetamphos	10.0	10	19
Synthetic Pyrethroid Pesticides			
Cypermethrin	20.0	20	19
Fenvalerate, Permethrin	50.0	50	19
Metals			
Arsenic	100.0	100*	58
Cadmium	5.0	Not stated	58
Copper	100.0	20000**	58
Lead	10.0	20	58
Mercury	1.0	Not Stated	58
Mycotoxins			
Aflatoxin M ₁	0.01	0.05	58

* Food Regulations 1959 (as amended) - level for non-alcoholic drinks

** Guideline limit for beverages

Retailer 3

Aflatoxin M1	Aflatoxin M1	0	ng/ml	7300A034
Arsenic	Arsenic (As)	<0.1	mg/kg	7.00E+05
Cadmium	Cadmium (Cd)	<0.005	mg/kg	7001G003
Iodine	Iodine (I)	0.205	mg/kg	7001A014
Lead	Lead (Pb)	<0.005	mg/kg	7003A003
Mercury	Mercury (Hg)	<0.004	mg/kg	7003G013
	Organochlorine pesticides in dairy produce			
Organochlorine pesticides in dairy produce	Aldrin	<0.001	mg/kg	B001B085
Organochlorine pesticides in dairy produce	alpha-HCH	<0.001	mg/kg	7300A148
Organochlorine pesticides in dairy produce	beta-HCH	<0.001	mg/kg	7300A157
Organochlorine pesticides in dairy produce	cis-Chlordane	<0.001	mg/kg	7300G016
Organochlorine pesticides in dairy produce	delta-HCH	<0.001	mg/kg	7300A198
Organochlorine pesticides in dairy produce	Dieldrin	<0.001	mg/kg	B001B088
Organochlorine pesticides in dairy produce	Endosulfan I (alpha-endosulfan)	<0.001	mg/kg	7300J008
Organochlorine pesticides in dairy produce	Endosulfan II (beta-Endosulfan)	<0.001	mg/kg	7300J009
Organochlorine pesticides in dairy produce	Endosulfan-sulfate	<0.001	mg/kg	7300S126
Organochlorine pesticides in dairy produce	Endrin	<0.0008	mg/kg	B001B089
Organochlorine pesticides in dairy produce	Heptachlor	<0.001	mg/kg	7300S166
Organochlorine pesticides in dairy produce	Heptachlor epoxide	<0.001	mg/kg	B001B086
Organochlorine pesticides in dairy produce	Hexachlorobenzene (HCB)	<0.001	mg/kg	7300S169
Organochlorine pesticides in dairy produce	Lindane (gamma-HCH)	<0.001	mg/kg	7300S186
Organochlorine pesticides in dairy produce	o,p-DDT	<0.001	mg/kg	7300H126
Organochlorine pesticides in dairy produce	Oxychlordan	<0.001	mg/kg	7300G168
Organochlorine pesticides in dairy produce	p,p-DDD	<0.001	mg/kg	7300S100
Organochlorine pesticides in dairy produce	p,p-DDE	<0.001	mg/kg	Z001UD03
Organochlorine pesticides in dairy produce	p,p-DDT	<0.001	mg/kg	7300S103
Organochlorine pesticides in dairy produce	trans-Chlordane	<0.001	mg/kg	7300G018
	Organophosphorous pesticides in Milk			
Organophosphorous pesticides in Milk	Acephate	<0.01	mg/kg	7300A146
Organophosphorous pesticides in Milk	Chlorfenvinphos	<0.01	mg/kg	7300A176
Organophosphorous pesticides in Milk	Chlorpyrifos	<0.01	mg/kg	7300S081
Organophosphorous pesticides in Milk	Chlorpyrifos-methyl	<0.01	mg/kg	7300S082
Organophosphorous pesticides in Milk	Diazinon	<0.01	mg/kg	7300S106
Organophosphorous pesticides in Milk	Dichlorvos	<0.01	mg/kg	7300A206
Organophosphorous pesticides in Milk	Fenitrothion	<0.01	mg/kg	7300S142
Organophosphorous pesticides in Milk	Malathion	<0.01	mg/kg	7300S187
Organophosphorous pesticides in Milk	Methamidophos	<0.01	mg/kg	7300A256
Organophosphorous pesticides in Milk	Propetamphos	<0.01	mg/kg	7300A303
Synthetic Pyrethroid pesticides in Milk	Cyfluthrin	<0.01	mg/kg	7300A192
Synthetic Pyrethroid pesticides in Milk	Cypermethrin	<0.01	mg/kg	7300A195
Synthetic Pyrethroid pesticides in Milk	Fenvalerate	<0.01	mg/kg	7300A230
Synthetic Pyrethroid pesticides in Milk	Permethrin	<0.01	mg/kg	7300A287

Retailer 4

Food	Number of samples	Substance sought	Reporting limit ($\mu\text{g}/\text{kg}$)	Result
Egg	1	Antimicrobial screen	β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Tetracyclines	50	Negative
		Lasalocid	20	Negative
		Nicarbazin	25	Negative
Honey	2	Antimicrobial screen	Tetracyclines - 50	Negative
			β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Chloramphenicol	0.3	Negative
		Nitrofurans	1	Negative
		Streptomycin	20	Negative
Farmed salmon	2	Antimicrobial screen	β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Tetracyclines	50	Negative
		Avermectins	10	Negative
		Malachite green / leucomalachite green	2	Negative
		Crystal violet / leucocrystal violet	2	Negative
Farmed trout	2	Antimicrobial screen	β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Tetracyclines	50	Negative
		Avermectins	10	Negative
		Malachite green / leucomalachite green	2	Negative
		Crystal violet / leucocrystal violet	2	Negative
Imported sea bass	1	Antimicrobial screen	β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Tetracyclines	50	Negative
		Malachite green / leucomalachite green	2	Negative
		Crystal violet / leucocrystal violet	2	Negative
Poultry	2	Antimicrobial screen	Tetracyclines - 50	Negative
			β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Chloramphenicol	0.3	Negative
		lasalocid	20	Negative
		Nicarbazin	25	Negative
		Nitrofurans	1	Negative
Prawns	3	Antimicrobial screen	β -lactams - 10	Negative
			Sulphonamides - 100	Negative
		Tetracyclines	50	Negative
		Chloramphenicol	0.3	Negative
		Nitrofurans	1	Negative

Imported commodities

Sample	Analysed for	Number of samples analysed	Reference point ($\mu\text{g}/\text{kg}$)	Samples above the Reference Point	
				Number found	Concentration ($\mu\text{g}/\text{kg}$)
Hog Casings	Chloramphenicol	2	0.3	0	
	Nitrofurans	2	1.0	0	
Honey	Chloramphenicol	3	0.3	0	
	Streptomycin	3	20.0	0	
Shrimp	Chloramphenicol	13	0.3	0	
	Nitrofurans	13	1.0	0	