# NATIONAL STATUTORY SURVEILLANCE SCHEME FOR VETERINARY RESIDUES IN ANIMALS AND ANIMAL PRODUCTS: 2019

## **RESIDUES DETECTED ABOVE THE REFERENCE POINT TO DATE: 31 December 2019**

Sample	Analysed for	No. of analyses	No. of Non- compliant samples	Reference Point µg/kg/l	Concentrations above the Reference Point $\mu$ g/kg/l (more than one substance may be found in one sample)
Calves Kidney	Antimicrobial (Screen 1)	130	2	600	5800 (chlortetracycline) 130 (sulfadiazine)
Calves Kidney	Antimicrobial (Screen 4)	105	3	1000	1700, 2600, 11000 (dihydrostreptomycin)
Calves Kidney	Florfenicol	97	2	300	480, 2300 (florfenicol)
Cattle Kidney	Florfenicol	260	1	300	820 (florfenicol)
Cattle Kidney	Metals	69	3	1000 500	1300 (cadmium) 720, 1400 (lead)
Cattle Kidney	NSAIDs	347	2	10 65	76 (diclofenac) 650 (meloxicam)
Cattle Liver	Anthelmintics	722	1	1000	1800 (closantel)
Cattle Urine	Steroid (Screen 1)	1047	12	Presence 0.7 (male) 5 (female) 12	1.6/2.7, 2.6, (alpha-boldenone) 0.53, 0.66, 0.86, 1, 1.3, 7.1, 13 (alpha-nortestosterone) 14, 43, 18 (testosterone)
Fattening Cattle Urine	Steroid (Screen 1)	1161	17 (2 substances in 3 samples)	2 Presence	0.2/3.0, 0/2.5, 2.2, 2.9, 3.0, 18 (alpha-boldenone) 0.20, 5.4, 7, 7.1, 7.1, 7.9, 8.6, 12, 12, 13, 14, 17, 18, 30 (alpha- nortestosterone)
Fattening Cattle Urine	Zeranol	355	9 (Both substances in 6 samples)	Presence	1.0, 1.2, 1.2, 1.5, 1.8, 1.8, 2,2, 9.6 13 (taleranol) 0.55, 0.70, 0.71, 0.92, 1.1, 1.1, 1.5, 4.5, 8 (zeranol)
Cattle Urine	Zeranol	382	4 (Both substances in 4 samples)	Presence	0.85, 1.1, 1.5, 15 (taleranol) 0.25, 0.7, 0.63, 3.8, (zeranol)
Cattle Milk	Florfenicol	141	1	300	0.34 (florfenicol)
Cattle Milk	NSAIDs	172	1	Presence	0.48 (diclofenac)
Cattle Plasma	NSAIDs	67	2	Presence	1.3, 2.8 (phenylbutazone)
Pig Kidney	Antimicrobial (Screen 1)	1394	1 (Both substances in 1 sample)	100 50	110 (sulphadiazine) 64 (trimethoprim)
Pig Liver	Anthelmintics	333	1	100	180 (ivermectin)
Sheep Kidney	Metals	54	1	500	700 (lead)
Sheep Liver	Anthelmintics	1532	5	1500	2300, 2400, 3800, 4400, 5300 (closantel)
Sheep Liver	Avermectins	475	2	100 100	190 (doramectin) 160 (ivermectin)
Sheep Urine	Steroid (Screen 1)	509	33 (2 substances in 1 sample)	Presence Presence Presence	0.76/4.1,1.0/2.3, 2.0, 2.0, 2.1, 2.1, 2.3, 2.3, 2.3, 2.3, 2.4, 2.5, 2.5, 2.5, 2.6/2.2, 2.7, 2.9, 2.9, 2.9, 3, 3.2, 3.2, 3.3, 3.5/2.2, 3.8, 3.8/13.2, 4.4, 5.0, 5.1, 5.3, 5.5, 6.0, 9.8 (alpha-boldenone) 0.95, 1.0, 590, (beta-nortestosterone) 2.1 (beta-boldenone)

Sample	Analysed for	No. of analyses	No. of Non- compliant samples	Reference Point µg/kg/l	Concentrations above the Reference Point $\mu g/kg/l$ (more than one substance may be found in one sample)
Sheep Urine	Zeranol	104	3	Presence	0.71, 1.2, 4.2 (taleranol)
			(Both		0.95, 2.2,4.2 (zeranol)
			substances in		
			3 samples)		
Sheep Liver	Coccidiostats	335	1	500	780 (toltrazuril sulfone)
Horse Kidney	Metals	1	1	1000	11000 (cadmium)
Horse Kidney	NSAIDs	44	1	Presence	5.7 (phenylbutazone)
			(Both	0.5	4.4 (oxyphenylbutazone)
			substances in		
			1 sample)		
Broiler Liver	Coccidiostats	1380	1	8	10 (monensin)
Turkey Liver	Coccidiostats	89	1	Presence	35 (maduramycin)
Partridge	Coccidiostats	8	3	5	120, 250, 290 (lasalocid)
Muscle					
Bee Honey	Metals	14	1	100	250 (lead)

# **RESULTS OF FOLLOW-UP INVESTIGATIONS: 31 December 2019**

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle	· · · · ·			
Calves Kidney	Florfenicol 480 µg/kg 1909988	<u>Resflor</u>	Great Britain	A large dairy farm of over 400 cattle and calves. On inspection, the farm was found to be clean and tidy with all animal movement on and off the farm suitably recorded. All animal treatment is recorded in the IT system (for cattle and calves respectively). The owner kept a record of all purchased veterinary medicines over the last 5 years in addition to the IDs of the animals the medicines were administered to. The animal was treated with Resflor in January and sold in February as rearing calf. The farmer informed the buyer that the animal was meant for rearing purposes. The investigation established the animal was slaughtered within a withdrawal period. The buyer was given advice on requirements for declaring all relevant medicine administrations on Food Chain Information and reminded of the requirements for record keeping and observation of withdrawal periods.
Calves Kidney	Florfenicol 2300 µg/kg 1909979		Great Britain	This is a medium sized collection centre for calves, no calves were present during the inspection. Most calves are sold to be reared on other farms. On average 300 calves arrive on Mondays, most of the calves leave the same day. No medicines are kept at the collection centre. There is an incident book present in case a calf requires care/treatment and a PVS will be called out. Two calves had tested positive for Florfenicol (Nuflor). The owner confirmed that neither of the calves were treated with any medication. The owner was advised on record keeping requirements and reminded of obligations to ensure withdrawal periods are observed. The investigation established that the likely cause of this residue was an unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period.
Calves Kidney	Chlortetracycline 5800 µg/kg 1919730		Great Britain	This is a large dairy herd with 3,762 cattle in total and sheep, the farm rears its own replacements. Milking cows are housed all year round, male dairy calves are routinely sent to slaughter without treatment when fit to be transported. Barren cows are sent to slaughter at an early lactation age. Chlortetracycline powder was given to female calves mixed with milk at day one. The farmer stated that it was possible a male calf jumped into the neighbouring female pen without anyone realising. The owner was advised of the need to review processes and to take adequate precautions to ensure only targeted animals receive treatment, (treatments to be recorded on the medicine records and withdrawal periods adhered to). The investigation established the likely cause of this residue was unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period.
Calves Kidney	Dihydrostreptomycin 1700 µg/kg 1919789		Great Britain	This is a large sized farm of dairy, 950 beef cattle and 24 sheep. Livestock are kept at 3 different locations and vaccinated. Medicines are stored appropriately, records are up to date, (ear tag numbers, doses, dates, method of treatments of the drugs, withdrawal periods recorded). There is a good system to identify animals under medication, however a mistake was made. It is possible one of the workers did not understand which groups of animals were to be treated. Buscopan, Penistrept, Calciject medicines were found during the inspection. All boxes were properly labelled, only 1 box of medicine was out of date and the inspector requested disposal of this. Verbal and written advice was given to the farmer advising how to avoid such residues in future. The likely cause of residue is unrecorded treatment and subsequent slaughter whilst within a withdrawal period.
Calves Kidney	Dihydrostreptomycin 2600 µg/kg 1934210		Great Britain	Awaiting investigation report.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Calves Kidney	Dihydrostreptomycin 11000 1934191	<u>Marbocyl</u> <u>Synulox</u> <u>Bolus</u>	Great Britain	A medium sized farm comprised of 427 cattle and tack sheep. Replacements are reared on farm, only bulls are bought in. Dairy bull calves are sold directly to slaugher. Beef cattle are reared on farm and sold as stores or to fatten on farm. Cattle graze and in addition are fed silage and hay, housed cattle are fed wheat and barley mix. Young calves are fed with colostrum (2-3 days) and later given milk replacer. Medicine records were found to be satisfactory and medicines were appropriately stored. The positive calf had suffered with diarrhoea and treatment was recorded in the medicine book. It was treated with Synulox (bolus) and Marbocyl . These were used over three days and the calf was the only animal treated. The substance detected in the calf's kidney was Dihydrostrephtomycin, none of the recorded medicines contain this substance. The medicine record indicates that Pen & Strep was previously purchased and used on farm. Pen & Strep does contain Dihydrostreptomycin Sulfate. Taking into account this investigation was unannounced, the compliant medicine record and storage, the only plausible reason for the positive residue is potential unintended human error. The owner was advised to discuss any antimicrobial treatment with the PVS, to adhere to product labelling and instructions to avoid medicine misuse, correcly record mediciation to ensure withdrawal periods are observed/expired medicines are not retained. The likely cause of residue is possible unrecorded treatment and subsequent slaughter whilst within a withdrawal period.
Calves Kidney	Sulfadiazine 130 µg/kg 1934179	<u>Norodine</u>	Great Britain	This is an accredited (Red Tractor Assurance Scheme) large non-organic farm of dairy cattle, with a small-scale beef side. The dairy herd is kept at two locations., both premises are managed separately. Cattle are homebred, only exceptions are replacement bulls. Dairy bull calves are sent for slaughter at the age 1-2 weeks. The positive calf (10 days old) had not been treated at the time of slaughter. The farmer declared that calves are not administered treatment with Norodine, However, the presence of an open bottle in storage and evidence of a residue in excess or the MRL where a veterinary medicine is used in a sample collected, show that the animal had been treated with the medicine and the withdrawal period had not been observed. It is possible the medicine containing sulfadiazine was accidentally given, instead of something else, but there was no record of administration of other medicines to the calf. The correct use of medicines, dosage, application and storage was discussed during the inspection. Electronic format for medicines records are used, the importance of keeping up to date records was highlighted. There were no completed records for the ID of the animals treated, or records to show the withdrawal periods had been complied with. It is probable the cause of this is from possible unrecorded treatment and subsequent slaughter whilst within a withdrawal period.
Cattle Kidney	Meloxicam 650 µg/kg 1919545	<u>Kelaprofen</u> <u>Metacam</u>	Great Britain	A large dairy cattle farm comprised of 619 animals. The homebred animal was sent for emergency slaughter because of a ruptured left stifle. The animal was treated with Kelaprofen. There were no records showing the animal had been treated with other medicines. Three people are involved in treatment of animals, and there are periods when temporary staff are involved. Medicine records were found to be incomplete. Medicines storage consists of two plastic cabinets (one secured in a room adjacent to the milking tank room, the other in the milking parlour which is not locked for easy access). Expired medicines are discarded in the waste bin provided and collected. Metacam is present on farm and the owner is aware of withdrawal periods. Unaccounted medicine could indicate that Metacam was used in treatments, but not recorded. There is a possibility of human error mixing Kelaprofen with Metacam (similar colour). The owner was notified of deficiencies and guidance was given on procedures for record keeping requirements. The likely cause of residue was an unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Kidney	Florfenicol 820 µg/kg	<u>Resflor</u>	Northern Ireland	An investigation was undertaken in December 2019. The animal was from a dairy herd of 644 animals. It was 44 months old and had been born on farm, it was transported to slaughter on own trailer along with 4 other animals. Movement and medicine records were kept in accordance with legislation. The animal had been treated with Resflor in September 2019 and given 52 days for withdrawal (product has 46-day withdrawal period); the product was administered correctly with 2 subcutaneous injections. The farm is a large dairy farm with regular visits from the vet, it has good husbandry and has no previous issues. A follow-up sample was compliant.
Cattle Kidney	Diclofenac 76 μg/kg 1925002	<u>Loxicom</u> <u>Tetra-Delta</u> <u>Draxxin</u>	Great Britain	A small cattle farm (member of the accredited Red Tractor Assurance Scheme). The farm operates a predominantly grass system with the grazing period extending to 8-9 months of the year where possible. The owner does all the milking and administers any treatment to cattle. There was no recent history of anyone taking Diclofenac or applying it topically. The residue was found in a Holstein Friesian dairy cow and it had received various treatments, the most recent in July 2019 Loxicom (meloxcam) injectable, Tetra Delta (Novobiocin, Neomycin, Penicillin, Dihydrospreptomycin, Prednisolone) intramammary, these were obtained from the PVS. This cow had not received any other treatment since then. There had been a few health problems with the herd over recent months. The use of Draxxin (Tulathromycin) was recorded, indicating pneumonia problems in livestock. Not all medicine purchases were available to view, a full set was obtained from the PVS. Only the last 3 digits of animal ID for ear tags were recorded in the medicine book. Worming treatment was denoted as having been given to all milking cattle, the owner was advised that a list of cattle in milk should be attached on medicine records. Medicines were up to date except for 1 box of Lifeaid. Advice was given regarding expired products including disposal of and on requirements for retention of records (5 years). Improvements are to be made in recording animal ID. The source of residue could not be established.
Cattle Kidney	Lead 720 µg/kg 1919697		Great Britain	The animal was born in 2013, sold on at auction in March 2019 and slaughtered in April 2019. The first holding, (a medium sized beef cattle farm) appeared to be well run. There was no evidence of any old lead mines near the farm and no signs of old paint or batteries found. The farmer mentioned that water pipes had been replaced in the field many years ago, but the old pipes were made of copper with only a lead outflow. The positive animal had spent approximately 34 days at a second holding, the inspector was of the opinion that the animal would not have accrued a lead residue in this short period of time. The medicine records for this animal, confirmed that no veterinary medicine treatments had been given. The animal was fed a vegetable and concentrate diet. There was no exposure to lead at these premises either. The source of residue could not be established.
Cattle Kidney	Lead 1400 µg/kg 1923805		Great Britain	A large cattle farm of around 800 cattle. Animals are kept inside sheds with deep bedding. Sheds are divided into pens with capacity for approximately 30 cattle and in some sheds, drinkers are situated around a middle corridor used for machinery (straw blowers and feed tractors). Animals (18 to 30 months) are purchased from markets. As a batch (25-40) they are kept on farm for 3-5 months, then sent to the abattoir. Silage and grain/barley is home grown, minerals are purchased locally and kept in storage. Rejected potatoes obtained from potato packers (a potato company is located on the farm and uses lift trucks and other machinery) are fed to animals. Barley for feeding was found on the yard during the visit. The grain was left out of the storage shed for fermentation and placed into storage after this process. The farm was found to be clean and tidy, no flaking or new painting inside cattle sheds was observed. However, machinery in use could be a potential source of lead contamination. It is possible that lead was ingested by the animal from a battery on the holding, however the farmer was aware of the dangers. The farmer was advised to contact the PVS to discuss the potential source of lead poisoning. The source of residue is likely due from accumulation of lead through environmental contamination.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Kidney	Cadmium 1300 µg/kg 1919709	<u>Dectospot</u> <u>Orbenin</u>	Great Britain	A medium sized cattle farm. The positive animal was homebred and during its life was moved between two farms. Cattle were grazing on fields adjacent to barracks, where a garage for repairing aircrafts was operating. Medicine records showed that products in stock were Dectospot and Orbenin. There was no evidence of the use of illegal substances. It is likely that the location next to the military garage is the source of cadmium contamination of the soil (possible spillage from batteries used by aircrafts or other unknown products). The farmer was advised to move cattle from certain fields, ensure new products are approved for treatment in cattle and administrated under private vet coordination. The cause of residue is likely to be from accumulation of cadmium through diet over time.
Cattle Liver	Closantel 1800 µg/kg 1904568	<u>Closamectin</u>	Great Britain	This is a small bovine farm. The positive animal was homebred and never left the farm. It was sent directly to abattoir as a batch of a group of 5 cull cows in February and slaughtered the next day. Computer records provided by the farmer, showed the animals had been treated with Closamectin Pour on in January. No other products were administered the same day. These animals were kept separately from other animals, therefore there was no risk of cross contamination. They were slaughtered 42 days after treatment, recommended meat withdrawal periods appear to have been observed: 28 days at the time when treatment was administered. The computer records were up to date. The farmer was advised to fill out and submit an adverse event reporting form to the VMD. The Closamectin was administered prior to the extended withdrawal period of 58 days which had been announced in March. The issue leading to the withdrawal period being extended could be the primary cause of the residue. There is also a possibility that the farmer overestimated the weight of the animal, however this is unproven.
Cattle Urine	Alpha-boldenone 0/2.5 μg/l		Northern Ireland	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $\beta$ - Boldenone. Animal in calf at the time of sampling.
Cattle Urine	Alpha-boldenone 0.2/3.0 µg/l		Northern Ireland	β- Boldenone is indicative of abuse and α- Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated β- Boldenone. This animal also contained α-Nortestosterone (30 µg/l). Animal in calf at the time of sampling.
Cattle Urine	Alpha-boldenone 1.6/2.7 µg/l		Northern Ireland	β- Boldenone is indicative of abuse and α- Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $β$ - Boldenone.
Cattle Urine	Alpha-boldenone 2.6 µg/kg 1908519		Great Britain	This is a large size dairy enterprise with 170 milking cows and 40 followers. Cattle are kept in two distinct groups; milking cows are housed in new sheds with four milking robots. Young stock, dry cows and beef cattle are housed in old cattle buildings near the farmhouse. Cows are fed concentrate containing wheat and hay/maize silage. Lactating cows are also given soya powder mixed in the feed. Medicine records were found to be in good order and all medicines were stored in a lockable cabinet. Medicines requiring refrigeration were all adequately kept at good temperature in a fridge. The farm is accredited for the Red Tractor Assurance Scheme. There was no evidence of the use of banned substances on the farm, therefore the presence of the hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Cattle Urine	Alpha-boldenone 2.6/2.2 µg/kg		Northern Ireland	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $\beta$ - Boldenone.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Urine	Alpha-nortestosterone 0.53 µg/kg 1912950		Great Britain	A large sized farm of cattle (beef fattening unit) only, where the feeding system is based on a mixed diet done at farm. The animals usually stayed at farm for 100 days, were kept in good clean condition and showed normal calm behaviour. The positive sample originated from a steer which was at farm for a month and had not received any treatment, or wormer. Medicines records were checked and appeared to be satisfactory The animal was kept in a pen with other males which were sent to the slaughtherhouse. There was no evidence of the use of anabolic steroids, nor abnormal muscling in other animals kept at the farm. The animal did undergo a 5-hour journey prior to slaughter, which could have contributed to stress related raised hormone levels. Advice was given to try to avoid stressful situations where possible and to contact the private vet for advice when required. The likely cause of residue was due to natural occurrence caused by stress levels during transit.
Cattle Urine	Alpha-nortestosterone 0.66 µg/kg 1912965		Great Britain	A large farm livestock farming business (500 cattle and 500 sheep), organic and non-organic livestock. Cattle are purchased when they are 12-18 months old, and fattened on farm for 6-12 months more, then sent to slaughter. There are 50 organic ewes for breeding and young lambs are bought for fattening. The farm grows cereals and produces its own silage, hay and straw which is fed to the livestock. All medicines are supplied by the veterinary practice. Practices observed during the inspection were correct. There was no evidence of the use of banned substances on the farm, therefore the cause of residue is considered to be a natural level.
Cattle Urine	Alpha-nortestosterone 0.86 µg/kg 1924243		Great Britain	A medium sized far of 193 animals, beef and dairy cattle. The animals showed normal conformation/ behaviour. They were fed hay and silage produced on farm (not mixed with any medicated product). There was no evidence of the use of banned substances on farm. The possible stress of a long journey might explain the positive result (duration of transport approx. 6 hours to the abattoir). The farmer could not present the medicine records for inspection, including disposal of medicines, or proof of purchase of veterinary products which are all a breach of the medicine regulations. Two expired products were found, however there was no evidence that products had been opened or used. Medicines were stored in a fridge located in a locked shed. The fridge was not appropriately cleaned and maintained. All medicines stored were the usual products found in a dairy farm, but their use had not been recorded. The farmer was advised to discuss the possible source of residue with the PVS. Guidance was provided on record keeping requirements and medicine storage. The farmer was advised to carry out correct castration procedures of males (homebred or purchased) at early stages and to seek veterinary advice when required. The presence of this hormone is considered to be a natural level.
Cattle Urine	Alpha-nortestosterone 1.0 μg/kg 1930909		Great Britain	The positive animal was a 19-month old steer. According to the movement records, the animal was transported directly to slaughter from the farm of origin. No markets or dealers were involved in the transport. The owners confirmed they had never used steroids or banned substances on cattle, and this was confirmed by the PVS. Movement records were checked, passports of the animals and other paperwork found. The farmer was unable to provide the medicine book when requested during the inspection as he had never bought medicines or kept any on farm. The PVS took medicines directly to the farm and administered these to animals as required. During the visit, no animals were inspected as there were no animals present. The farm appeared to be of a high standard. The farmer is now retired and no longer keeps animals. It is probable that the stress of a short journey to slaughter, may account for the residue, therefore it is concluded that the source is from natural levels.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Urine	Alpha-nortestosterone 1.3 μg/kg 1908412		Great Britain	This is a medium sized farm mainly comprised of dairy cattle (fattening cattle and calves). The positive animal (a 16-month old bull) was homebred. It left the farm in January for market, then went to abattoir in the same month. Inspection showed very good management on the farm and the animals appeared in very good condition. There was no indication of steroid use; the remainder of the cattle looked healthy, with normal conformation. No steroid products were found in the medicine cabinet and all medicines were stored appropriately. The animal had travelled over 110 miles to the abattoir, and this is likely to have caused a stress response in the body. The farmer has been advised to continue with the current practice of recording any medicines used. The likely cause of residue is from natural levels.
Cattle Urine	Alpha-nortestosterone 7.1 μg/kg 1931386		Great Britain	This large farm is part of the accredited Red Tractor Scheme and is comprised of cattle and sheep (store lambs). The animal was purchased in September 2019 and was mixed with 110 other cattle. The cow fell, possibly as a result of bullying by an unfamiliar peer group. The animal was shackled to try to raise off the ground, but with no success, the PVS issued a slaughter certificate. Routine samples were taken and high levels of alpha nortestosterone were identified. No non-compliances or banned substances were found during the inspection. Medicine records were good, and vaccines were stored in the fridge (expired medicines taken for disposal by private vet). Care and advice were given regarding withdrawal periods. Mixing the animal with a peer group may have caused undue stress and elevations of the hormone, together with the stress of travel and pain from injury. Therefore, the cause of residue is considered to be a natural level.
Cattle Urine	Alpha-nortestosterone 13 µg/kg 1908375		Great Britain	This is a grass based dairy farm of approximately 300 milking cows. Calves are born on farm but moved off to be reared elsewhere once they reach 80kg. Calves are fed medicated feed (coccidiosis preventative) which is mixed off site under a veterinary prescription. Detailed medicine records were available for inspection and no deficiencies were noted in the supply or use of medicines. Veterinary medicines were stored appropriately in a lockable cabinet. There were two expired vaccines and two expired antibiotic bottles. The farmer was advised to mark and dispose of these accordingly. The animal had calved in February and had received treatment with antibiotics. It was sent to the collection centre in March for onward transport to slaughter post calving and had been under significant stress from a previous infection and prolonged transit time. There was no evidence of the use of banned substances on the farm. As the animal had recently calved, the presence of this hormone is considered to be a natural level.
Cattle Urine	Testosterone 14 µg/kg		Northern Ireland	No investigating visit was undertaken as the animal concerned was a bull and bull animals can produce high physiological levels of this hormone.
Cattle Urine	Testosterone 18 µg/kg		Northern Ireland	No investigating visit was undertaken as the animal concerned was a bull and bull animals can produce high physiological levels of this hormone.
Cattle Urine	Testosterone 43 µg/kg		Northern Ireland	No investigating visit was undertaken as the animal concerned was a bull and bull animals can produce high physiological levels of this hormone.
Cattle Urine	Taleranol & Zeranol 0.71/0.95 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 1.0/0.71 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 1.1/0.70 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 0.85/0.25 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 2.2/1.5 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Urine	Taleranol & Zeranol 1.2/2.2 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 1.5/0.63 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 13/8 µg/kg &		Northern Ireland	No investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Cattle Urine	Taleranol & Zeranol 15/3.8 µg/kg		Northern Ireland	No Investigating visit was undertaken as levels indicative of fusarium toxin contamination.
Fattening Cattle Urine	Taleranol 1.2 μg/kg & Zeranol 0.70 μg/kg 1920236		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Taleranol 1.2 µg/kg & Zeranol 0.55 µg/kg 1928918		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Taleranol 1.5 μg/kg & Zeranol 1.1 μg/kg 1920231		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Taleranol 1.8 µg/kg & Zeranol 0.92 µg/kg 1920218		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Taleranol 1.8 μg/kg & Zeranol 1.1 μg/kg 1920224		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Taleranol 9.6 μg/kg & Zeranol 4.5 μg/kg 1911926		Great Britain	Low levels of zeranol and fungal metabolites may be present in the urine of animals that have ingested feeding-stuffs contaminated with the fusarium fungus. At this level of residue, a statistical model based on research has confirmed this to be the case. No further investigation was required.
Fattening Cattle Urine	Alpha-boldenone 2.2 μg/kg & Alpha-nortestosterone 18 μg/kg 1911353		Great Britain	A large sized dairy cattle farm which is a member of the Quality Farm Assured, Red Tractor Scheme. The animal sampled was a calf born on the farm. An investigation was carried out and no non- compliances were found during the visit. Medicine records were found to be satisfactory and medicines were appropriately stored. There were no expired medicines on site. Adequate animal ID had been recorded and withdrawal periods were observed. The Nortestosterone could potentially be as a result of stress from handling, whilst catching the calf to get the sample on farm. This residue is therefore considered to be natural in origin.
Fattening Cattle Urine	Alpha-boldenone 2.9 µg/kg & Alpha- nortestosterone 7.9 µg/kg 1928440		Great Britain	Pregnant female. No investigation required.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Fattening Cattle Urine	Alpha-boldenone 3.0 μg/kg &		Great Britain	Awaiting investigation report (held up due to COVID-19).
	Alpha-nortestosterone 0.20 µg/kg 1911388			
Fattening Cattle Urine	Alpha-nortestosterone 5.4 μg/kg 1900270		Great Britain	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 7.0 µg/kg		Northern Ireland	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 7.1 μg/kg 1928397		Great Britain	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 7.1 µg/kg		Northern Ireland	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 8.6 μg/kg 1920102		Great Britain	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 12 µg/kg		Northern Ireland	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 12 µg/kg		Northern Ireland	Animal had just calved. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 13µg/kg		Northern Ireland	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 14 µg/kg		Northern Ireland	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 17 μg/kg 1900240		Great Britain	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-boldenone 18 μg/kg 1900267		Great Britain	Pregnant female. No investigation required.
Fattening Cattle Urine	Alpha-nortestosterone 30 µg/kg		Northern Ireland	Pregnant female. No investigation required. This animal also contained $\alpha$ - Boldenone free (0.2 µg/l) and $\alpha$ - Boldenone conjugated (3.0 µg/l).
Cattle Plasma	Phenylbutazone 1.3 µg/kg		Northern Ireland	An investigation was undertaken with the most likely cause of the residue being contamination as a neighbour who keeps a horse had been assisting with the feeding of this animal. The owner of this animal keeps a small number (7 in total this year) of animals for fattening and then slaughter, he has no direct involvement with horses. The remaining 6 animals were re-sampled and one of these gave non-compliant phenylbutazone levels (see Suspects section for follow-up result).

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Plasma	Phenylbutazone 2.8 µg/kg		Northern Ireland	An investigation was undertaken with the most likely cause of the residue being contamination due to a cow being in close contact with horses. The positive animal had been purchased as a calf and had been on the farm for 2 years and 7 months. The movement and medicine records were all kept in accordance with legislation with only horse medication in stock on the farm. The positive animal was a TB reactor which had been brought from the out farm (where the cattle are kept) to the home premises for isolation. The cow was placed adjacent to where two elderly equines are kept who are both treated daily for arthritis with phenylbutazone. All follow up samples were compliant.
Cattle Milk	Florfenicol 0.34 µg/kg	<u>Cadorex</u>	Northern Ireland	The positive animal was 7 years old was born on farm. Both the movement and medicine records are kept in accordance with legislation and were found to be satisfactory. The positive animal was from a dairy herd of 160 animals and had been injected with Cadorex in early December 2019. Mid-December a milk sample was taken. The herd owner was not given any advice on the withdrawal period. Follow up sample was compliant.
Cattle Milk	Diclofenac 0.48 µg/kg 1920711		Great Britain	A medium sized farm of organic dairy cattle only, where the feeding system is organic. There are around 140 cattle (70 of them milking twice per day, the milk collection of the tank is every second day). The animals were kept in good clean condition and showed normal calm behaviour. The positive sample was taken from the main milk tank and included milk from all the animals milking in that period. Diclofenac is a nonsteroidal anti-inflammatory drug (NSAID) and is used to treat mild to moderate pain, or signs and symptoms of osteoarthritis or rheumatoid arthritis in humans. The medicine records were checked and appeared to be satisfactory. As this is an organic farm, the use of medicines is kept to a minimum. The owner was advised to maintain a hygienic routine after using cream, to always use gloves when dealing with animals or milk, including the cleaning of the tank. The inspector concluded that the likely cause of residue is due to inadvertent contamination of the milk sample or tube at the time of sampling.
Pigs				
Pig Liver	lvermectin 180 μg/kg		Northern Ireland	An investigation was undertaken. The positive animal is from a herd of 3000 weaners and fatteners. Movement and medicine records were all kept in accordance with legislation. No ivermectin preparations are used in the weaner or finisher units.
Pig Kidney	Sulphadiazine 110 µg/kg & Trimethoprim 64		Northern Ireland	An investigation was undertaken in November 2019. The positive animal was 6 months old and was born on farm. The animal was taken to slaughter by the haulier and was not mixed with other animals. Movement and medicine records were kept in accordance with legislation. The farmer stated that to the best of his knowledge drugs containing the substances detected have never been used in finishers. The finishers are located at a different unit to breeding pigs and the young pigs. Medicated feed is never administered to finishers, they have their own meal bin and feed line. A follow up meal sample taken during the investigation contained low levels of a range of veterinary drug residues.

Sheep				
Sheep Urine	Alpha-boldenone		Northern	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No
	1.0/2.3 µg/kg		Ireland	investigation required as no presence of conjugated β- Boldenone.
Sheep Urine	Alpha-boldenone		Northern	$\beta$ -Boldenone is indicative of abuse and $\alpha$ -Boldenone indicative of faecal contamination. No
	0.76/4.1 µg/kg		Ireland	investigation required as no presence of conjugated β- Boldenone.
Sheep Urine	Alpha-boldenone	<u>Clikzin</u>	Great	A small size hobby enterprise with low numbers of sheep, goats and poultry. Sheep normally graze
	2.0 µg/kg 1926465		Dillain	and no additional supplements are provided. There appeared to be a discrepancy between the age and sex of the animal (no individual ID number was provided a female age 6-12 months). According
	1320400			to the farmer's record all sheep sent for slaughter were male and aged over 2 years. There was no
				evidence of the use of banned substances. Medicine and movement records appeared satisfactory.
				A minor deficiency was identified: when treating the groups of animals (de-worming or using flystrike
				prevention product like Clikzin), under the quantity administered, the quantity of medicine used is not
				recorded or as instructed. The cause of result is unclear, however it is likely due to faecal cross-
Shoon Urino	Alpha holdonono	Combinov	Croat	Containination at the time of sampling.
Sheep Onne			Britain	and sells them at approximately 1.6 months old. All sheep were treated with Combiney (for fluke and
	1926507		Britain	worms) in May 2019. The positive lamb had not been treated with anything else since birth. Medicine
				records were found to be satisfactory and stored securely. The farmer checks for expired medicines
				and stores them securely for disposal, the PVS collects disposals. Sheep appeared normal, no
				abnormal muscling or conformation changes were found. There was no evidence of the use of
				banned substances. It is likely the residue was caused by faecal contamination of the urine or other
				Boldenous origin as it is possible that certain plant sterois can be metabolised to produce
Sheen Urine	Alpha-boldenone		Great	A medium sized farm comprised of cattle sheep and poultry. The sheep side of the farm is oriented
oneep onne	2.1 µg/kg		Britain	almost exclusively for production of lamb direct for slaughter, supplying the local slaughterhouse.
	1926450			The main breed is Texel, Reyland, Suffolk and Blackface. Lambing usually takes place from mid-
				March-April. Approximately 30 lambs are kept every year for breeding and the rest are sold directly
				to a local slaughterhouse. Medicines and movement records appeared to be satisfactory. No
				deficiencies were noted in the supply, storage and use of medicines. Medicines requiring refrigeration
				investigation established that there was no evidence of the use of hanned substances therefore the
				presence of this hormone is considered to be natural due to accidental faecal contamination of the
				urine at the time of sampling.
Sheep Urine	Alpha-boldenone		Great	This is a large farm of dairy cattle, sheep and poultry, comprised of 450 acres of land used mainly for
	2.1 µg/kg		Britain	sheep grazing. Small blocks of land are used for forage rape crops and fodder beet. The use of
	1926418			fertiliser is kept at minimum. No mixing of any medicated product takes place or is used to feed the
				livestock. The farmer is a sneep dealer, the majority of sneep are purchased from markets and stay
				outside, fed with pellets, minerals and vitamins. Medicine records and storage facilities were
				satisfactory on inspection. Individual treated animals are marked, whole batches of sheep are
				separated from the rest of the flock in specific fields or pens. Medicine records indicated the use of
				standard treatments for livestock. Animals displayed normal behaviour and normal conformation for
				their sex, age and breed. There was no evidence of the use of banned substances, therefore the
				presence of Alpha-boldenone is considered to be of natural occurrence, likely due to accidental faecal
1	1	1	1	contamination of the urine at the time of sampling.

Sheep Urine	Alpha-boldenone 2.3 μg/kg 1904803		Great Britain	A medium sized farm comprised of 205 ewes, 117 lambs and 3 rams. Replacement ewes (around 40 per year) are purchased by the same farm. Lambs are sent to slaughter on a weekly basis (around 12 per week). The positive lamb was born on farm and sent to slaughter. The farmer declared that no medicines are stored at the farm and he had not treated any sheep in the last three years. He was not registered with any vet practice and was advised to do so. All the sheep were inspected and appeared to be in satisfactory health. The cause of residue is likely due to faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.3 μg/kg 1916978		Great Britain	A small farm of 76 cattle, 350 ewes and 150 lambs, 4 pigs and 5 chickens. The cattle are mixed and organically reared. This is mainly a sheep farm, which sends an average of 5 lambs weekly to the abbatoir. Only routine worming treatments are given, with occasional antibiotic use when required. The medicine records and storage facilities were found to be satisfactory and in good order. There was no evidence of the use of anabolic steroids. Advice was given to the farmer and a copy of the summary of the medicine recording requirements for keepers of food-producing animals was provided. The investigation established that the likely cause of this residue is from faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.3 μg/kg 1926391	<u>Alamycin</u> <u>Pen &amp; Strep</u>	Great Britain	This is a medium sized farm comprised of sheep. The positive animal was a cull ram bought from market in July 2019. The animal was on farm for 14 days when it was slaughtered and sampled. Sheep are held for 1-2 weeks maximum and sold directly to slaughter (around 2000 sheep are traded each week). Regular checks are carried out and medicine records are in good order. All treatments are written down in the diary which showed that this animal had no recorded treatments whilst on the holding. Two main medicines are used, Alamycin and Pen Strep, (main issues lameness). All medicines are supplied by the PVS or agricultural wholesalers. Medicine storage facilities were compliant with requirements. Advice was given to continue recording all treatments and the importance of observing withdrawal periods was stressed. There was no evidence of the use of banned substances, therefore the presence of this hormone is considered to be natural due to faecal contamination of the urine during sampling.
Sheep Urine	Alpha-boldenone 2.3 µg/kg 1933021		Great Britain	Awaiting investigation report (held up due to COVID-19).
Sheep Urine	Alpha-boldenone 2.4 μg/kg 1916926		Great Britain	The cause of residue could not be established as the specific animal was untraceable.
Sheep Urine	Alpha-boldenone 2.5 μg/kg 1916876		Great Britain	This is a large sheep farm (accredited Red Tractor Scheme). The animal a lamb born on farm, was fed grass and some creep feed. It was sent to the abattoir through local market. No medicines were administered to the animal. Use of all veterinary medicines are recorded and withdrawal periods are observed. All medicines are stored appropriately, and no expired medicines were found. Alphaboldenone is a steroid which is banned for the purposes of growth promotion in food-producing animals. The investigation established that there was no evidence of the use of banned substances, therefore the presence of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.5 μg/kg 1919852		Great Britain	This is a small farm buying in sheep, pigs, growing cattle from various markets and farms. The resident animals were kept in good condition and showed normal calm behaviour. Whilst on farm the sheep were grazed and occasionally fed hay and straw only. The positive sample originated from a male sheep, to which no veterinary treatment was given while on the farm. There was no sign of the use of banned substances nor abnormal muscling in the resident animals. The medicine records were inspected, minor non-compliances were found. No veterinary medicines were stored on site. Withdrawal periods were not recorded in the medicine records for a number of purchased products. However, these could have been observed from the product label as well. The farmer was advised to ensure withdrawal periods are recorded and observed to avoid cross-contamination. The presence of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.

Sheep Urine	Alpha-boldenone 2.5 μg/kg 1926509	<u>Albex</u> <u>Bravoxin</u> <u>Ovivac</u>	Great Britain	There are around 200 beef cattle (including calves), the farmer has a closed homebred herd of around 500 ewes and 250 lambs. All fattened lambs are sent for slaughter in small batches of around 30 animals per week, the farmer moves animals himself. Sheep are kept on grass fields most are far away from the farm, whilst closer fields are dedicated for cattle. Ewes are drenched twice a year, lambs in summer with ewes using Albex 2.5% Oral Suspension. Lambs are given vaccinations Bravoxin and Ovivac P Plus, all withdrawal periods were observed. There was no evidence of the use of banned substances. Medicine records were found to be satisfactory and medicines were appropriately stored, there were no expired medicines. Guidance for record keeping requirements were provided, some minor recommendations for improvement were made. The likely cause of residue is faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.6/2.2 μg/kg	N/A	Northern Ireland	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $\beta$ - Boldenone.
Sheep Urine	Alpha-boldenone 2.7 μg/kg 1923850		Great Britain	A large farm of mainly sheep (1800 breeding ewes – Blackface, Mule, Textel). The farm also breeds a cattle beef herd of 30 animals. Two full time workers look after the stock. Ewes are mated in November. Lambing is from the end of March to April. Medicine records appeared to be satisfactory. The Veterinary Practice was contacted, and they confirmed no hormones are used by the Practice. The farmer is aware of withdrawal period requirements and withdrawal periods are respected. There was no evidence of the use of banned substances, therefore the presence of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.9 μg/kg 1916974		Great Britain	A large sized farm, comprised of 25 calves, 50 beef cattle and 600 ram lambs spread on the fields. The sheep are usually kept outside depending on the weather conditions. The farm follows a vaccination program against pasturella, as this year a postmortem came back positive. At the same time, animals are treated for fluke and worms. Sheep are fed grass, swedes and cake. The owner provided movement records and Food Chain Information (50 sheep were moved off to slaughter in April). Animals are moved in a livestock box from market to abattoir. The farm buys in rams only (October-January). Accurate records of all treatments and proof of purchases are kept. Medicines are stored appropriately. There was no evidence of the use of banned substances, therefore the presence of this hormone is considered to be natural due to accidental contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 2.9 µg/kg 1926495		Great Britain	The holding is Red Tractor Farm Assured and has a small-to-medium beef herd comprising of approximately 365 beef cattle. The farmer breeds cattle using 3 bulls, there is no artificial insemination. 25% of the animals are kept as replacement and the remainder are fattened, then sold at around 15-20 months old. The farmer buys cattle from local markets and farms. Purchased cattle for fattening are housed and kept separately from others. Cattle are sent to the abattoir every 2 weeks. There were approximately 1100 breeding ewes and 1700 lambs on the holding. 250 lambs are kept for breeding and 370 are sold to a local farm for breeding, the remainder are fattened and sent for slaughter. In summer all sheep are kept grazing, during winter, sheep are fed hay. Routine medication is used for fluke and worming treatment. Three medicine records are kept, (daily cattle diary, medicines purchased and a medicine book). Animals can be traced if required, however all 3 books need to be available, as in the case of cattle ID, there is not enough space to record multiple animals (hence a daily diary is used to record information). This method also applies for sheep ID records where multiple sheep are treated. Medicines are kept in a lockable room; no expired medicines were found. The investigation established that the cause of residue is likely to be of natural origin due to accidental faecal contamination of the urine at the time of sampling.

Sheep Urine Sheep Urine	Alpha-boldenone 2.9 µg/kg 1926521 Alpha-boldenone 3.0 µg/kg	GB	Great Britain Great Britain	This is a medium sized farm of fattening cattle and 2000 sheep (cattle sheds with 120 suckling cows and around 280 young calves which are sold as stores in the market). The use of fertiliser is kept to a minimum. Cows are fed grass silage and hay, young calves are fed extra with beef finisher nuts (barley, wheatfeed, rape, sunflower, molasses) mixed with barley during the winter. The farmer has 2000 sheep, the lambs graze and close to the slaughtering date are fed with a intensive lamb finisher cake (maize, sugar beet pulp, soya, wheat, rape). The medicine records were found to be correctly completed and records indicated the use of standard treatments for livestock. Veterinary medicines were all stored appropriately and locked. The animals displayed normal behavior and conformation for their sex, age and breed. There was no evidence of the use of banned substances on the farm, therefore the presence of Alpha-Boldenone is considered of a natural ocurrance due to faecal contamination of the urine at the time of sampling. Awaiting investigation report (held up due to COVID-19).
	1931143		Ducit	
Sneep Urine	Aipna-boldenone 3.2 μg/kg 1904807	Alamycin LA Bi Cydectin LA	preat Britain	A medium sized farm of calves, 92 dairy cattle and sneep (280 ewes and 270 lambs). Food provided to the sheep is mainly crop; barley and straw provided directly in the field. Movement, medicine records and storage conditions were inspected. Movement records confirmed the animal was moved off farm to market in February. Only minor breaches were found, batch number date missing for Alamycin LA used for the treatment of lameness in 140 lambs, Cydectin LA used for the treatment of scab in 302 ewes, 356 baby lambs (date of treatment finished missing). There was no evidence of the use of banned substances, therefore the presence of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 3.2 µg/kg 1933006	G Bi	Great Britain	The source of residue is likely to be from natural occurrence; however, the animal was untraceable.
Sheep Urine	Alpha-boldenone 3.3 μg/kg 1923847	GB	Great Britain	A medium organic farm, (approximately 167 cattle, 400 sheep and 1 goat). Cattle graze on a rotational basis between May-October, lambing occurs in April. Medicines are prescribed by a veterinary surgeon, other products (anthelmintics) are purchased from a supplier of livestock nutrition and animal health care products. Medicines were separated from any feed and labelled, a few expired drugs were found. Withdrawal periods doubled those reflected in the medicine data sheets, as required by organic standards. The farmer was advised it would be more appropriate to record the legal withdrawal period and add the double length organic one. There were a number of withdrawal periods missing and lapses in recording of administered medicines. All cattle and sheep were found with good normal growth development. There was no evidence of the use of banned substances. A copy of medicine recording requirements for food producing animals was provided. The farmer was advised to liaise with the vet practice on appropriate disposal of expired medicines. The residue may have arisen as a result of natural endogenous origin or faecal contamination of the urine during sampling.
Sheep Urine	Alpha-boldenone 3.5/2.2 µg/kg	No Ire	orthern eland	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $\beta$ - Boldenone.
Sheep Urine	Alpha-boldenone 3.8 μg/kg 1916979	GB	Great Britain	A small sized farm with calves, beef cattle and sheep. Sheep were not present at the time of the inspection. The farmer purchases batches of sheep at market, sheep for immediate slaughter are kept at a farm adjoining the abattoir. Store lambs are finished on farm premises where they are wormed and vaccinated against clostridiosis; animals are sent to slaughter within approximately 6 weeks. According to the medicine book, the batch of 37 lambs were wormed and vaccinated a day after purchase. All information was recorded in the medicine book and found to be satisfactory. There was no evidence of the use of banned substances, therefore the cause of residue is likely to be faecal contamination of the urine at the time of sampling or from other endogenous (natural) origin.
Sheep Urine	Alpha-boldenone 3.8/13.2 µg/kg	No Ire	orthern eland	$\beta$ - Boldenone is indicative of abuse and $\alpha$ - Boldenone indicative of faecal contamination. No investigation required as no presence of conjugated $\beta$ - Boldenone.

Sheep Urine	Alpha-boldenone 4.4 μg/kg 1926524		Great Britain	A large farm comprised mainly of dairy cattle, sheep, pigs, additionally ducks, geese and quail. Cattle are bought from local markets and sold as stores. The positive residue was found in a male sheep. There are approximately 800 sheep on farm which are mainly homebred, but a few lambs per year are bought in at local markets. The positive lamb was in a batch of 99 lambs and slaughtered in September 2019. The farm only administers medicines to livestock after consultation with a PVS. Livestock are regularly inspected; no banned substances are given to the livestock. The farmer was advised further on medicine storage, although no non-compliances were found. It is likely that the cause of residue is due to accidental faecal contamination of the urine during sampling.
Sheep Urine	Alpha-boldenone 5.0 μg/kg 1904795	Pen & Strep Suspension for Injection	Great Britain	This is a large farm, of mainly cattle and 1100 sheep (plus lambs), with poultry and geese. The owner breeds sheep when they are 3 years old and sells lambs through local auctions or to abattoir. Replacement tups are bought every year. The tup in which the residue was found had been injected with Penstrep for a bad foot. The withdrawal period was met. In addition, the farmer runs a small 169 beef suckler herd with 35 cattle. Cattle are sold as stores at 11-12 months old. The business is well run, and records are kept satisfactorily. Some medicines were kept for too long after broaching. No signs of steroids or other products containing Boldenone being used on this farm were found. The farmer was advised to check and dispose of expired/broached medicines and to record the identity of the animals on the medicine book when they are individually treated so that they can be better traced. The presence of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 5.1 µg/kg 1923842		Great Britain	A medium sized enterprise comprised of cattle and sheep which are purchased from different markets then sent onto abattoir using an approved haulage company. The positive sheep was a male 6-12 months old but was not fully identified at the collection time. No information was available for that movement as there was a problem with the EID system from mid-July to August, therefore there are movements not recorded centrally in the system. There has been no treatment of sheep, medicine records were available for cattle and the PVS is contacted if treatment is required. The animal had been on the farm for a very short period of time, with no need of any treatment. The farm's records have helped to trace back this case despite electronic ID failure. The farmer was reminded of the importance of record keeping requirements and advised to ensure withdrawal periods are observed. The cause of residue is considered to be natural due to faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 5.3 μg/kg 1904872		Great Britain	A large farm comprised of sheep only. The positive animal was homebred (only breeding tups are purchased). The animal was part of a 103 sheep batch sent to market. The animal spent just a few hours there and onward movement appears to be direct to slaughter. No evidence was found that any testosterone products were kept, purchased or administered to the animals. Medicine records and storage facilities were found to be satisfactory and compliant. Advice was given to review the sheep castration procedure as one of the reasons for positive residue results could be a failed castration. However, the likely cause of this hormone is considered to be natural due to accidental faecal contamination of the urine at the time of sampling.
Sheep Urine	Alpha-boldenone 5.5 µg/kg 1916900		Great Britain	No inspection was carried out due to unrecorded ear tag information at the time of sampling, therefore the specific animal was unable to be traced. A medicine record check was carried out and this was satisfactory.
Sheep Urine	Alpha-boldenone 6.0 μg/kg 1926426		Great Britain	This is medium sized enterprise consisting of 350 ewes and 6-8 rams. The positive animal was a female sheep (14 months old). Grazing grounds consist of naturally growing pasture, grass, clovers, ryegrass, festuca. There was no evidence of the use of banned substances. The owner provided details of all medicines and treatments used on the sheep with the accompanying medicine records and withdrawal periods. The investigation established that it is likely the residue has arisen following faecal contamination of the urine at the time of sampling, or other endogenous origin, as it is possible that certain plant sterols can be metabolised to produce Boldenone in the urine.

Sheen Urine	Alpha-boldenone	Supaverm	Great	A small sized farm of 6 adult sheen (lowland cross bred sheen), poultry and horses kent in another
	9.8 µg/kg	<u>oupuvoim</u>	Britain	area of the farm. The sheep flock appeared in normal condition. The owner confirmed the flock had
	1926374	<u>Clik</u>		not received any recent medication and equines on the premises had not received any banned
				substances. The positive ram had been on the farm for approximately 1 year. It had grazed with
				horses away from the ewes up to 2 weeks before slaughter and was only fed hay, no concentrate
				ration. The animal was found to have a cryptorchid testes and was intentie, it was taken direct to sloughter. Medicine records showed the animal was wormed with Supaverm and Clik for fly strike
				prevention: records were in good order. Adequate animal ID and withdrawal period details were
				recorded. The importance of keeping accurate medicine records was reiterated to the owners. The
				level of residue is likely to be of natural origin, as could faecal contamination of the urine at the time
				of sampling.
Sheep Urine	Beta-nortestosterone		Great	A large farm used mainly for cattle (suckler herd) and sheep grazing. A small block of land is used
	0.95µg/kg		Britain	for forage rape crops for sneep feeding and the use of fertiliser is kept at a minimum. No mixing of management
	1904700			supplements. Medicine records were found to be satisfactory and stored appropriately. Animals
				inspected were found to be in good clean condition and displayed normal behaviour. A second
				holding was also inspected, (a temporary keep of sheep/goats/cattle for supply to the adjoining
				abattoir). Sheep are not kept for more than 6 weeks, occasionally goats are purchased for slaughter.
				Cattle are purchased through markets, fattened and kept for several months, depending on customer
				orders, 7-8 are slaughtered every week. There was no evidence of the use of banned substances at either holding, therefore the presence of this hormone is considered to be from natural levels.
Sheen Urine	Beta-nortestosterone		Great	A small sized farm of mainly dairy beef cattle and approximately 60 sheen. The farm buys sheen
	1.0 µg/kg		Britain	pigs, growing cattle from various markets and farms. Animals are in good condition and showed
	1904824			normal calm behaviour. Sheep are fed hay and straw only. The animal (female 13-18 months old),
				had been given no veterinary treatment while on farm. No veterinary medicines were stored on site
				and the farmer had adopted a zero-tolerance policy for veterinary treatment given to animals. The
				medicine records were inspected, and minor non-compliances were found. For products purchased, withdrawal periods
				are recorded and observed to avoid cross-contamination and to double check with the PVS on target
				species and dosage. There was no evidence of the use of banned substances on farm, therefore the
				presence of this hormone is considered to be a natural level.
Sheep Urine	Beta-nortestosterone	N/A	Great	The source of residue could not be established as there was insufficient chain of evidence, therefore
	590 µg/kg & Beta-		Britain	an investigation could not be carried out.
	1926393			
Sheep Urine	Taleranol		Northern	No investigating visit was undertaken as levels indicative of fusarium toxin contamination.
	0.71 µg/kg &		Ireland	
	0.95 Zeranol µg/kg			
Sheep Urine	Taleranol		Northern	No investigating visit was undertaken as levels indicative of fusarium toxin contamination.
	1.2 µg/kg &		Ireland	
1	z.z zeranor µg/kg	1	1	

Sheen Urine	Taleranol		Great	A medium sized family business comprised of 150 breeding ewes. Lambs are sold for meat through
			Britain	local autions and annovimately 30 animate are kent as replacements each year. There is also
	4.2 pg/kg &		Dinain	amello best settle best consistence of a seture 2 before and 20 years by the set of the best settle be
	4.2 Zeranor µg/kg			small beel cattle field consisting of 3 addit cows, 2 fielders and 22 young buils. Foung buils are
	1904935			bought from a local farm at 3-4 months of age reared to be sold as fat at 15-18 months old. The
				enterprise is well run, and records were found to be satisfactory. Some recently expired medicines
				were found. Others were kept for too long after broaching. There was no evidence of the use of
				banned substances and animals appeared in good condition. The PVS confirmed that animals
				requiring vet advice were examined and the vet had no concerns. The farmer was advised to clean
				and power wash feeders occasionally to avoid build up and potential fungal growth. The farmer is to
				implement a better system of recording the ID of animals in the medicine book, so they can be traced
				(sheep are treated in batches and not all IDs are recorded). The investigation established that the
				most likely cause of residue is from fund-infected feed
Shoon Kidnov	Lood		Creat	At the first helding, a large form comprised of 1400 about and 52 pattle, lamba were transported to a
Sheep Kiuney			Britain	At the first holding, a large farm comprised of 1400 sheep and 36 catter, farmos were transported to a
	700 µg/kg		Britain	here in November 2018 and transported to the abattor in spring 2019. Lambs were less than one
	1907094			year old at that time. The owner confirmed there were no batteries or scrap metals in the 200-acre
				field, although there had been some rabbit shooting in fields without sheep. Medicine records were
				up to date at the time of the visit. The medicines store was inspected and found to be satisfactory.
				The inspector was unable to determine the source of the lead contamination. At the second holding,
				(a small farm of cows and sheep), the field was harvested, surrounded by an electric fence. The
				owners were not responsible for sheep and did not administer any medication. On one side of the
				field there was some construction debris, which the sheep had no access to. The investigation could
				not establish any potential sources of environmental contamination of the soil and water locally.
Sheep Liver	Closantel	Supaverm	Great	This is a medium sized farm comprised of cattle and sheep. The positive lamb was homebred. The
	2300 ug/kg	<u></u>	Britain	owner confirmed be had administered Sunaverm Oral Suspension (Closantel) which has 65 days
	1033682		Britain	withdrawal period. He had treated 460 lambs (260 Tayles and 200 mixed store lambs). Treated
	1999002			animals were marked with group colour. Provide ly from the mixed store lambs group he had
				animals were marked with green colour. Freviously, norm the mixed store family group, ne had
				separated 23 tambs that were intended to be sent to market. The non-treated and treated group were
				separated by a stone wall. The owner believed that several animals jumped over the wall and got
				mixed. After that, he was unable to differentiate which one was treated and which one was not due
				to the fact they had been sprayed with the same colour. The owner was advised to put in place a
				better system to differentiate treated from non-treated animals, to apply different colours for each
				treatment and to keep treated animals away from non-treated animals.
Sheep Liver	Closantel	Supaverm	Great	A small farm of sheep (44 adult Texel sheep, 24 lambs) and pet chickens. Rams are bought when
•	2400 µg/kg		Britain	needed, no other livestock is kept. The lamb was homebred and spent its time on farm before going
	1927226	Albex		to abattoir. Management standards were good, and records were well organised. Medicines were
				stored appropriately and were up to date. Medicines were administered orally to sheep with a single
		Levafas		aun which was washed frequently between administration of medicines. Supavern was administrated
		Diamond		gan when was washed negating between administration of mediation. Departer was administered
				to 15 Jamba in Sontember and Lourdes Diamond administered to 10 Jamba. The impactance of using
				to to tamps in September and Levalas Diamond administered to to tamps. The importance of using
				separate guns for different medicines and disinfection procedures were discussed and the owner was
				advised to seek further guidance from the PVS regarding administration and withdrawal periods. The
				investigation established that the likely cause of residue is possible unrecorded treatment and
				subsequent slaughter whilst within a withdrawal period.
Sheep Liver	Closantel		Northern	An investigation was undertaken on 28/3/19. The positive animal had been purchased 2 days prior
	3800 µg/kg		Ireland	to slaughter. Movement and medicine records were all kept in accordance with legislation. Flock
				owner works as a supplier as animals are mostly bought and then sold within days of purchasing (see
				Suspects section for follow-up results).

Sheep Liver	Closantel 4400 μg/kg 1905851		Great Britain	A large farm comprised of calves, cattle and sheep. Approximately 3000 lambs are born on farm every year, the farmer breeds his own ewe replacements. Breeding ewes and rams are kept on the farm for around 5 years. Lambs are sold at 6 months. The farmer does not transport sheep directly to abattoir: Sheep are kept outside all year long, including lambing time March-May. Natural mating takes place in October-November. Medicine records were not up to date, the last entry was dated May 2018. There was a fire in one of the sheds (April 2019), where the records of the latest medicine administrations, including the ones which would refer to the sheep with the positive result were held. Entries were not moved to the proper medicine records; therefore, the inspector was unable to confirm whether the withdrawal period for products containing closantel were recorded correctly and applied. The farmer was advised of record keeping requirements and guidance provided. The likely cause of residue was an unrecorded treatment and subsequent slaughter whilst within a withdrawal period.
Sheep Liver	Closantel 5300 µg/kg 1933598	<u>Zolvix</u>	Great Britain	The farmer runs a small sheep herd (200 breeding ewes and 74 hoggs). He keeps his own replacements and only buys rams from local farm sales. A batch of lambs were sent to slaughter in October 2019 and had been wormed in August 2019 with Zolvix (oral solution for sheep), which has a withdrawal period of 7 days, but does not contain closantel. The lambs had not received any other treatments after that. The farmer had not used any wormers with closantel. Medicine records were inspected and were of excellent standard. Separate books were kept for purchase and usage of medicines. Medicine storage facilities were satisfactory, there were no expired medicines found. It is concluded that the sheep did not originate from this farm, the animal may have got mixed at the collection centre which may have led to the wrong information being recorded when the sample was taken. General advice about checking withdrawal periods and declaring correct information on FCI was given, although this had been done correctly. A further back trace investigation is required.
Sheep Liver	Doramectin 190 µg/kg 1906602	<u>Dectomax</u>	Great Britain	A large farm with finishing cattle and sheep. The farmer frequently buys and sells stock. The medicine records indicate that 81 sheep were treated with Dectomax in January 2018. Over the years, the farmer had bought Dectomax several times recording the correct withdrawal period. In December 2018 he purchased Dectomax again but did not record the withdrawal period. Consequently, several batches of sheep were treated, and medicine records did not identify the animals. Advice was given on procedures for record keeping and on requirements for observing correct withdrawal periods. The investigation established that the likely cause of residue was an unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period.
Sheep Liver	lvermectin 160 μg/kg 1917960		Great Britain	Investigation complete – reporting pending.
Sheep Liver	Toltrazuril sulfone 780 µg/kg 1918012		Great Britain	The farm focuses solely on sheep. The positive animal had left the farm as part of a group of 12 sheep in May 2019 and reached the abattoir on the same day. No dealer was involved in the process. There are around 1400 ewes with a production of approximately 2500 lambs per year. Lambing takes place in three batches: February, March and April. Treatment is administered orally to each individual lamb. The medicine cabinet is kept locked, medicines stored appropriately, and no expired products were found. The farmer presented knowledge of the animal welfare code of practice during the inspection and robust management was observed. Approximately 300 sheep were inspected and appeared to be in very good condition. Advice was given to continue administering treatment according to the product label and PVS, information on record keeping requirements was provided. The likely cause of residue is possible unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period.

Horse				
Horse Kidney	Cadmium 11000 µg/kg 1925212	<u>Panacur</u>	Great Britain	A small farm comprised of mainly horses and approximately 6 hens. The farmer is a horse keeper and breeds them. He also keeps 15 competition horses (Welsh Cob). Horses are fed silage and hay. No non-compliances were observed in the horse buildings or feed store. The sample came from a 3-year-old horse. The only treatment administered to horses is Panacur 10% (wormer). There was no evidence of contamination from batteries, anticorrosive coating of metals, pigments or other substances. An airbase is located nearby, therefore it is possible metals are being released on the environment due to fuel combustion. The inspector suggested a water test be done for the brook in the fields if animals are drinking from it. A neighbour had obstructed the brook, and this was causing some accumulation of flooding/static water during winter. The owner was advised to keep accurate medicine and movement records. The investigation established that the most likely cause of the residue is from prolonged exposure to a high contaminated soil/water course and accumulation of cadmium through diet.
Horse Kidney	Phenylbutazone 5.7 µg/kg 1925186		Great Britain	The source of residue could not be found, as the animal was untraceable.
Poultry				
Broiler Liver	Monensin 10 µg/kg 1903316		Great Britain	The farm site houses 272,580 broilers at any one time. A sample of plain feed was taken from the farm and two samples of plain feed were taken from the mill. All contained monensin but at levels well below tolerance. The farm was going through changes in management and bin configuration at the time. There was a system for informing the driver of bin destination using a piece of paper on the last bin which was not retained for evidence. 14.44t of plain feed was put into bin 2A a day after 11.5t of feed with Coxidin was put in. As each house gets through 4.5t per day of feed, they could not have got through all the Coxidin feed before the plain was added. This is the most likely cause of contamination. However, there is no evidence to show whether the driver put the withdrawal diet in the wrong bin or if the farm told him to put it in that bin. There were no obvious errors found at the mill. The inspector advised the site to label pipes clearly, ensure the bin is empty before putting the withdrawal diet in and to have a confirmation system to check and show which bins have received feed, together with signed delivery paperwork to show verification of this. The investigation concluded that the residue was from possible feed contamination on farm.
Turkey Liver	Maduramycin 35 µg/kg 1903925	<u>Flubenvet</u>	Great Britain	This is a farm rearing turkeys and chickens. Turkeys are brought in at 42 days old and kept to approximately 137 days old. Turkeys are kept in 5 houses, each with their own feeding system. Feed is delivered automatically on an ad lib basis. It is delivered in bulk and blown into silos. Each delivery is fed into an empty silo. Silos are air cleaned every 3 months during the 10-day turnaround between crops. The liver sample was taken from a turkey where the birds were medicated with Cygro 10 plus Flubenvet. The information provided by the farm and mill does not provide any evidence to demonstrate how the turkey liver produced a positive result for Maduramycin. There were no retained feed samples either from the farm or the mill available for residue testing, subsequently the investigation was inconclusive, therefore the source of residue was not established. Both the mill and farm were reminded of the need to have robust systems and procedures in place.

Game			
Partridge Muscle	Lasalocid 120 µg/kg 1928154	Great Britair	In addition to farming the estate manages forestry, a range of game (including boar, deer, partridge and pheasants) as well as fishing. In 2019 a total of 8000 pheasants and 500 partridge were purchased at approximately one month old and were penned in several locations throughout the estate. Pheasants and some partridge were released after approximately. 8 weeks from the pens and fed outdoors on a mixture of wheat and plain game pellets. Most of the partridge were kept in the pens for longer due to a disease issue. Feeding stations were used as well as a few small pens with a group of 'call birds' in them to encourage released birds to return to the area. All feed is stored in a single shed and moved to the pens as and when required. Feed records showed a discrepancy of two bags of game grower plus Avatec, these were not accounted for in any of the usage records. In early October several pens were targeted by a group of wild boar who broke in to get to the feeders. The pens were repaired, and feeders refilled. The sampled bird is most likely to be an escaped call bird which had been consuming game grower, plus Avatec (residue at the bottom of the feeder moved by the wild boar). This case appears to be down to an unfortunate series of events, rather than the failing of procedures at either the shoot or mill.
Partridge Muscle	Lasalocid 250 µg/kg 1934346	Great Britair	The sample was taken from the same flock (see report above linked to 1928154).
Partridge Muscle	Lasalocid 290 µg/kg 1928152	Great Britair	The sample was taken from the same flock (see report above 1928154).
Bees			
Bee Honey	Lead 250 µg/kg 1928167	Great Britair	An analysis of honey tested positive for 250µg/kg lead in the sample above the Maximum Residue Limit (MRL). During an inspection, no evidence was found of the use of unauthorised substances in the hives. There was no evidence of lead or old paint in the apiary, bee shed, or garden. In conclusion the investigation was unable to establish the cause of residue. The owner was advised that all honey must be retained until further notice and a further inspection will be carried out at the apiary as part of routine surveillance.

#### SAMPLING OF ANIMALS SUSPECTED OF CONTAINING A RESIDUE AT THE TIME OF SLAUGHTER: 2019

#### **RESIDUES DETECTED ABOVE THE REFERENCE POINT TO DATE: 31 December 2019**

Sample	Analysed for	No. of Analyses	No. of Non- compliant samples	Reference Point µg/kg/l	Concentrations above the Reference Point $\mu$ g/kg/l (more than one substance may be found in one sample)
Calves Kidney	Antimicrobial (Screen 1)	4	1	3000	6600 (tulathromycin)
Cattle Kidney	Antimicrobial (Screen 1) & Florfenicol	942	17 (2 substances in 1 sample)	50 300 150 600 50 1000 1000	170, 1000, 1200 (amoxycillin) 550, 590, 630, 1300 >8000 (florfenicol) 350, 2200, 2900, (marbofloxacin) 2600, 6700, 7700(oxytetracycline) 160, 290 (penicillin G) 3500 (tilmicosin) 2500 (dihydrostreptomycin)
Cattle Liver	Anthelmintics	110	2	20 100	330 (nitroxinil) 200 (ivermectin)
Cattle Plasma	NSAIDS	30	1	Presence	13 (phenylbutazone)
Sheep Kidney	Antimicrobial (Screen 1)	25	1	600	14000 (oxytetracycline)
Sheep Liver	Anthelmintics	80	5	1500	1700, 1800, 2300, 2500, 2700 (closantel)

# **RESULTS OF FOLLOW-UP INVESTIGATIONS: 31 December 2019**

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle	· · · · · · ·			
Calves Kidney	Tulathromycin 6600 ug/kg 1997001	<u>Draxxin</u>	Great Britain	This is a medium sized dairy farm. Calves are kept with their mothers for 12 hours, then moved and placed in a pen in groups of 3. They are fed colostrum for 2.5 days; moved to a larger group and fed milk replacement from an automatic feeder. Heifers are kept for replacements. A daybook is kept in the farm office where details are supposed to be written down immediately after a treatment (animal identification and product used against the date in the diary). The treated animal is not marked in any way. The owner asked his employee to inject a calf with Draxxin (active substance tulathromycin) as the calf suffered pneumonia. The use of Draxxin for this particular calf is recorded in the daybook as well as in the computerised system. The owner admits that a human error occurred at this stage and his employee either injected a wrong calf or injected both calves and did not inform the owner of the mistake. The owner was advised to keep good records and establish a robust system for marking all treated animals - employees to be trained accordingly. The investigation established that the likely cause of residue was the animal was slaughtered within a withdrawal period due to human error.
Cattle Kidney	Amoxycillin 170 ug/kg	Unknown	Northern Ireland	An investigation was undertaken on 17/09/19. The animal was 7 years old and had been purchased 1 day prior to slaughter. The animal was taken to slaughter in the farmer's own transport and was mixed with other animals. Movement records are kept in accordance with legislation. There were no medicine records as no drugs are administered on farm.
Cattle Kidney	Amoxycillin 1000 ug/kg	<u>Betamox LA</u>	Northern Ireland	An investigation was undertaken, the animal was from a beef herd of 30 animals. The animal was treated with Betamox LA which has a withdrawal period of 28 days. In this instance treatment was given 8 days prior to slaughter. Unknown to the herd keeper the animal had been injected by his daughter.
Cattle Kidney	Amoxycillin 1200 ug/kg	Unknown	Northern Ireland	An investigation was undertaken in December 2019. The animal was from a dairy herd of 1316 and was 5 years old; the animal had been born on farm. It was taken to slaughter by haulier but kept separate. The medicine and movement records were kept in accordance with legislation. The Manager was off sick and the milking man had injected the animal on a Sunday evening; it was not clear if the use of medicine had been recorded as no information was transferred to the computer records. The animal was injured and was slaughtered on farm on the Wednesday evening.
Cattle Kidney	Florfenicol 550 ug/kg	<u>Zeleris</u> <u>Colvasone</u>	Northern Ireland	An investigation was undertaken on 12/3/19. Medicine and movement records are kept in accordance with legislation. The positive animal had been purchased 6 months prior to slaughter. It was not thriving and was examined and treated by the vet on 4/1/19 with Zeleris (Florfenicol & meloxicam) and Colvasone (Dexamethasone). The animal did not improve after treatment and the herd keeper took animal for slaughter on 18/2/19 (45 days after treatment), Zeleris has a 56-day withdrawal. The farmer claims he was not informed of the withdrawal period and had presumed 45 days later would have been sufficient. Follow up samples were compliant.
Cattle Kidney	Florfenicol 590 ug/kg	<u>Norfenicol</u> Lexicom	Northern Ireland	An investigation was undertaken on 25/2/19. Medicine and movement records are kept in accordance with legislation. The positive animal has been purchased 22 months prior to slaughter. It was from a beef herd of 220 animals. There are also sheep and pigs on the farm. The animal was treated with Norfenicol and Lexicom (meloxicam); Norfenicol has a withdrawal period of 44 days, animal was slaughtered the day after withdrawal period ended. All follow up samples were compliant.
Cattle Kidney	Florfenicol 630 ug/kg	<u>Nuflor</u>	Northern Ireland	An investigation was undertaken on 7/5/19. Medicine records were good. Animal came from a herd of 50 store cattle. It had been injected with Nuflor 25 days prior to slaughter. The withdrawal period for this product is 30 days. All follow up samples were compliant.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Kidney	Florfenicol 1300 ug/kg	N/A	Northern Ireland	An investigation was undertaken and animal was from a 250-beef finishing herd. The animal was purchased 48 days prior to slaughter and was not treated by the herd keeper. Medicine records in accordance with legislation.
Cattle Kidney	Marbofloxacin 350 ug/kg	Marbonor 10%	Northern Ireland	An investigation was undertaken and animal was a heifer from a dairy herd of 106 animals. It had been seen by PVP 6 weeks prior to slaughter and treated at the time. There was no conclusive diagnosis and on relapsing the animal was treated by the farmer with a single injection of Marbonor 10% then slaughtered 7 days later. Withdrawal period is 6 days.
Cattle Kidney	Marbofloxacin 2200 ug/kg	<u>Marbocyl</u>	Northern Ireland	An investigation was undertaken in April 2019. Medicine and movement records are kept in accordance with legislation. The positive animal was 3 years and 9 months old, was born on farm. It came from a herd of 172. It was treated with Marbocyl 10% on 08/03/19 and given 6 days withdrawal. Herd keeper said that vet had advised him that the animal had a serious stomach problem and would not survive an operation so he would be best to sell the animal.
Cattle Kidney	Marbofloxacin 2900 ug/kg	<u>Marbonar 10%</u>	Northern Ireland	An investigation was undertaken on 16/5/19. The animal had been on farm for 5 and half years and was taken to slaughter on 30/4/19 by own transport. Medicine and movement records kept in accordance with legislation. Animal was treated for mastitis with Marbonar 10% injectable on 24/4/19; this has a 6-day withdrawal time. There was a suggestion that the animal could have been injected a second time in error. Follow up sample was compliant.
Cattle Kidney	Oxytetracycline 2600 ug/kg & Florfenicol >8000 ug/kg	<u>Alamycin LA</u> <u>Nurflor</u>	Northern Ireland	An Investigation was undertaken and animal was from a 236 animal suckler/beef finishing herd. Animal treated with Alamycin LA and Nurflor injectables, it was withdrawn for 43 days and then slaughtered. Withdrawal period is 31 & 30 days respectively. Medicine was administered according to manufacturer's instructions. Medicine records kept in accordance with legislation. All follow up samples were compliant.
Cattle Kidney	Oxytetracycline 6700 ug/kg 1997016		Great Britain	This is a medium farm comprised of calves, beef cattle and fattening cattle. The premises operate as a beef cattle herd of 500 animals with no breeding stock. Four of the holdings, including the main premises and three linked holdings include grazing sites surrounding the housing facilities. Fattening cattle are bought in from different markets and sold for slaughter at approximately two years of age. Fattening cattle are housed during winter and grazed during summer in the adjoining land that surrounds the housing facilities. Medicine records and storage facilities were found to be satisfactory. The male calf had been on the premises overnight before being sent for slaughter. No evidence of fraudulent treatment was observed during the investigation visit. The likely cause of residue was an unrecorded treatment and subsequent slaughter of the animal whilst within a withdrawal period. Information was provided regarding statutory requirements for record keeping and advice was given on ensuring withdrawal periods are observed.
Cattle Kidney	Oxytetracycline 7700 ug/kg 1997024	<u>Engemycin</u>	Great Britain	This is a medium sized cattle enterprise linked to 3 holdings. There are 170 animals on the main premises and approximately 300 animals in each of the other holdings that operate as beef cattle with no breeding stock. The premises also operate as a collection centre for young calves ages 10 days to 6 weeks old. Calves stopover in the main premises overnight before being sold and sent for slaughter. Approximately 15-30 calves are brought into the main premises every 2 weeks and are then sent to different abattoirs. The owner bought 4 bottles of Engemycin in November 2019 and 4 more in December. Three bottles remained on the cabinet. There were no records of the positive animal shown in the medicine book. The calf was 30 days old when it was slaughtered. The inspector concluded that the most possible reason for this positive result for Oxytetracycline is that the animal was treated prior to the purchase at the holding of birth and then inadvertently sent for slaughter whilst within the withdrawal period.
Cattle Kidney	Tilmicosin 3500 ug/kg	N/A	Northern Ireland	An investigation was undertaken the animal was from a 250-animal beef finishing herd. The animal was purchased 48 days prior to slaughter and was not treated by the herd keeper. Medicine records were in accordance with legislation. All follow up samples were compliant.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Cattle Kidney	Dihydrostreptomycin 2500 ug/kg	Pen & Strep Suspension for Injection	Northern Ireland	An investigation was undertaken on 4/9/19. It was detailed that the animal had been treated with Vetrimoxin LA (active ingredient Amoxycillin) however residue detected in the kidney of this animal was Dihydrostreptomycin. The withdrawal time given was 18 days which is correct for Vetrimoxin LA cattle – meat (3 days for milk). However, during a stomach operation, a bottle of PenStrep had been administered to the open wound. On inspection, the medicine and movement records were found to be satisfactory and in accordance with legislation requirements.
Cattle Kidney	Penicillin 160 ug/kg	<u>Norocillin</u>	Northern Ireland	An investigation was undertaken in January 2020. The animal is one of 687 cattle and sheep kept on the farm. It was 5 years old and had been purchased 28 days prior to slaughter. The farm's own transport was used to take the animal to the slaughterhouse. Medicine and movement records are kept in accordance with legislation. The animal was administered Norocillin in December 2019 and was slaughtered 8 days later. The withdrawal period for this product is 7 days. The correct dosage and administration were applied. All follow up samples were compliant.
Cattle Kidney	Penicillin 290 ug/kg	<u>Norocillin</u>	Northern Ireland	An investigation was carried out in November 2019. The animal was 13 years old and had been purchased 2 months prior to slaughter. It was taken to slaughter in a separate pen in the farmer's own mode of transport. There were no medicines present on the farm and no medicine records were found. There were no other animals on the farm. Norocillin had been administered to the animal by the farmer 10 days prior to slaughter (withdrawal period is 7 days). He was aware of requirements for adhering to withdrawal periods and confirmed he will keep details of all future treatments.
Cattle Liver	Nitroxinil 330 ug/kg	<u>Trodax</u>	Northern Ireland	An investigation was undertaken on 17/4/19. Medicine and movement records are kept in accordance with legislation. The positive animal had been purchased 6 years prior to slaughter. It comes from a herd of 65 beef breeding animals. It was treated with Trodax injectable approximately 6 weeks prior to slaughter, medication has a 60-day withdrawal period. Medicine had been administrated in accordance with manufacturer's instructions however the owner had misread the date of administration before taking animal for slaughter.
Cattle Liver	Ivermectin 200 ug/kg	Unknown	Northern Ireland	An investigation was undertaken in September. The 3 year old animal had been born on farm. The animal was taken to slaughter in the farmer's own transport along with a bullock; they were kept separate during transport. The medicine and movement records are kept in accordance with legislation. The animal received injectable lvomac Classic on 25/6/19; it was administered by the herd keeper. The preparation has a 49 day withdrawal and this animal received a 51 day withdrawal. The animal was examined twice (1 <sup>st</sup> & 14 <sup>th</sup> August) however it was not treated with lvomec on either occasion. On the 1 <sup>st</sup> August animal was treated with Marbocyl 10% and vit B complex. When the vet returned on 14 <sup>th</sup> August he advised killing the animal as it was still suffering from a stomach complaint. The herd keeper raised concern that the carcase weight of his animal was given as 209kg and graded a P1 as she was a pedigree Aubrac and after calving in springtime she was 750kg.
Cattle Plasma	Phenylbutazone 1.3 µg/l	Unknown	Northern Ireland	See Investigation of NSS sample (Phenylbutazone 1.3 μg/l).
Sheep	-			
Sheep Kidney	Oxytetracycline 14000 ug/kg	Unknown	Northern Ireland	An investigation was undertaken on 21/3/19. Medicine and movement records are kept in accordance with legislation. The positive animal had been purchased almost 3 months prior to slaughter. It was not known which animals had been bought however 4 lambs were treated for lameness with Alamycin on 19/2/19 (20 days prior to slaughter), this medication has a 20-day withdrawal period. Herd keeper claimed medicine had been administrated correctly. Some confusion was caused regarding the correct withdrawal periods as PVP label and medicine bottle label differ. Advice given as to mark sheep when treated so as the same animal is not treated twice. This farm contains approx. 80 lambs, 2 ewes and cattle.

Species & Matrix	Residue detected & concentration (RIM Ref)	Products used	Region	Cause of residue
Sheep Liver	Closantel 1700 ug/kg	N/A	Northern Ireland	An investigation was completed, and the animal is from flock of 841 animals. The animal had been purchased 2 days prior to slaughter date. Medicine and movement records were kept in accordance with legislation. Three batches of 5 follow samples were taken; there were 2 non-compliant animals in the first batch, 3 non-compliant animals in the second batch and all animals were compliant in the third batch.
Sheep Liver	Closantel 1800 ug/kg	N/A	Northern Ireland	An investigation was completed, and the animal is from flock of 841 animals. The animal had been purchased 2 days prior to slaughter date. Medicine and movement records were kept in accordance with legislation. Three batches of 5 follow samples were taken; there were 2 non-compliant animals in the first batch, 3 non-compliant animals in the second batch and all animals were compliant in the third batch.
Sheep Liver	Closantel 2300 ug/kg	N/A	Northern Ireland	An investigation was completed, and the animal is from flock of 841 animals. The animal had been purchased 2 days prior to slaughter date. Medicine and movement records were kept in accordance with legislation. Three batches of 5 follow samples were taken; there were 2 non-compliant animals in the first batch, 3 non-compliant animals in the second batch and all animals were compliant in the third batch.
Sheep Liver	Closantel 2500 ug/kg	N/A	Northern Ireland	An investigation was completed, and the animal is from flock of 841 animals. The animal had been purchased 2 days prior to slaughter date. Medicine and movement records were kept in accordance with legislation. Three batches of 5 follow samples were taken; there were 2 non-compliant animals in the first batch, 3 non-compliant animals in the second batch and all animals were compliant in the third batch.
Sheep Liver	Closantel 2700 ug/kg	N/A	Northern Ireland	An investigation was completed, and the animal is from flock of 841 animals. The animal had been purchased 2 days prior to slaughter date. Medicine and movement records were kept in accordance with legislation. Three batches of 5 follow samples were taken; there were 2 non-compliant animals in the first batch, 3 non-compliant animals in the second batch and all animals were compliant in the third batch.

Full details of 2019 UK statutory surveillance programme by sector							
RED MEAT							
Substance	Species	Age &	Matrix	No of	No. above	Concentration where samples above the	
A2 Thyrostats	·					·	
Thyrostats	Cattle		Urine	165			
	Fattening cattle		Urine	225			
	Horses		Urine	1			
	Pigs		Urine	104			
	Sheep		Urine	78			
A3 Hormones							
Gestagens	Cattle		Kidney Fat	291			
	Fattening cattle		Serum	283			
	Pigs		Kidney Fat	107			
	Sheep		Kidney Fat	85			
Methyltestosterone	Pigs		Feed	31			
Oestradiol	Cattle	Male	Serum	206			
	Fattening cattle	Male	Serum	334			
Steroid Screen 1	Cattle		Urine	1047	12	1.6/2.7, 2.6, (alpha-boldenone)	
			Unite			0.2/0.0, 0/2.0, 2.2, 2.0, 0.0, 10 (alpha-	
	Horses		Urine	2			
	Pigs		Urine	357			
	Sheep		Urine	509	33	0.76/4.1,1.0/2.3, 2.0, 2.0, 2.1, 2.1, 2.3, 2.3,	
Testosterone	Cattle	Female	Serum	322			
	Fattening cattle	Female	Serum	322			
A4 Hormones							
Zeranol	Cattle		Urine	382	4	0.85, 1.1, 1.5, 15 (taleranol)	
	Fattening cattle		Urine	355	9	1.0, 1.2, 1.2, 1.5, 1.8, 1.8, 2,2, 9.6 13	
	Horses		Urine	1			
	Pigs		Urine	241			
	Sheep		Urine	104	3	0.71, 1.2, 4.2 (taleranol)	

A5 Beta-Agonists						
	Calves		Liver	7		
	Cattle		Liver	563		
	Fattening cattle		Feed	198		
	Fattening cattle		Urine	213		
	Horses		Liver	18		
	Pigs		Feed	49		
	Pigs		Liver	396		
	Sheep		Liver	292		
A6 Annex IV		1	1	1	1	
Chloramphenicol	Calves	< 6 months	Kidney	7		
	Cattle		Kidney	295		
	Fattening cattle		Feed	308		
	Fattening Cattle		Urine	54		
	Horses		Kidney	3		
	Pigs		Kidney	263		
	Sheep		Kidney	4156		
Nitrofurans	Calves	< 6 months	Kidney	4		
	Cattle		Kidney	166		
	Fattening cattle		Feed	212		
	Horses		Kidney	2		
	Pigs		Feed	9		
	Pigs		Kidney	323		
	Sheep		Kidney	248		
Nitroimidazoles	Calves	< 6 months	Kidney	4		
	Cattle		Kidney	172		
	Horses		Kidney	2		
	Pigs		Feed	18		
	Pigs		Kidney	241		
	Sheep		Kidney	117		
B1 Antimicrobial	-	1		1	1	
AMS1	Calves	< 6	Kidney	130	2	5800 (chlortetracycline)
	Cattle	months	Kidney	1245	-	130 (sulfadiazine)
	Uarrage		Kideev	7		
	Horses		Kidney	1204	1	440 (a) $da = diamin a$ $3.64$ (this at the service)
	Plys		Kidney	1394	1	(supradiazine) & 64 (timetrophin)
	Sheep	< 6	Kidney	2142		
Florfenicol	Calves	months	Kidney	97	2	480, 2300 (florfenicol)
	Cattle		Kidney	260	1	820 (florfenicol)
	Pigs		Kidney	141		
	Sheep		Kidney	227		
AMS2	Cattle		Kidney	133		
	Pigs		Kidney	386		
	Sheep		Kidney	7		
AMS4	Calves	< 6 months	Kidney	105	3	1700, 2600, 11000 (dihydrostreptomycin)
	Cattle		Kidney	132		
	Sheep		Kidney	105		
Ceftiofur	Pigs		Kidney	105		

<b>B2A</b> Anthelmintics	5					
Anthelmintics	Cattle		Liver	722	1	1800 (closantel)
	Pigs		Liver	333	1	180 (ivermectin)
	Sheep		Liver	1532	5	2300, 2400, 3800, 4400, 5300 (closantel)
Avermectins	Cattle		Liver	301		
	Horses		Liver	7		
	Pigs		Liver	133		
	Sheep		Liver	475	2	160 (ivermectin)
B2B Coccidiostate						
Coccidiostats	Calves	< 6 months	Liver	17		
	Horses	montaio	Liver	2		
	Pigs		Liver	113		
	Sheep		Liver	335	1	780 (toltrazuril sulfone)
B2C Pesticide Scr	een					
Pyrethroids + Carbamates	Calves	< 6 months	Kidney Fat	31		
Garbamates	Horses	montais	Kidney Fat	2		
	Cattle		Kidney Fat	5		
	Cattle		Liver	5		
	Pigs		Kidney Fat	78		
	Pigs		Liver	7		
	Sheep		Kidney Fat	571		
B2D Sedatives		1			I	1
	Breeding Boar		Liver	61		
	Cattle		Liver	37		
	Horses		Liver	7		
	Pigs		Kidney	28		
	Pigs		Liver	118		
	Sheep		Kidney	7		
	Sheep		Liver	92		
B2E NSAIDs		-				
	Cattle		Kidney	347	2	76 (diclofenac) 650 (meloxicam)
	Cattle		Plasma	67	2	1.3, 2.8 (phenylbutazone)
	Horses		Kidney	44	1	4.4 (oxyphenylbutazone) 5.7 (phenylbutazone)
	Pigs		Kidney	41		
	Sheep		Kidney	51		
<b>B2F</b> Glucocorticoi	ds					
	Cattle		Liver	337		
	Horses		Liver	6		
	Pigs		Liver	48		
	Sheep		Liver	24		
Carbadox	Pigs		Liver	8		
B3A Pesticide Scr	een	1	1		1	
OC/PCBs	Cattle		Kidney Fat	78		
	Horses		Kidney Fat	1		
	Pigs		Kidney Fat	73		
	Sheep		Kidney Fat	130		

B3B Pesticide Scr	een							
OPs	Cattle		Kidney Fat	224				
	Horses		Kidney Fat	1				
	Pigs		Kidney Fat	148				
	Sheep		Kidney Fat	587				
B3C Heavy Metals	5							
Metals	Cattle		Kidney	69	3	1300 (cadmium) 720, 1400 (lead)		
	Cattle		Muscle	11				
	Horses		Kidney	1	1	11000 (cadmium)		
	Pigs		Kidney	14				
	Pigs		Muscle	2				
	Sheep		Kidney	54	1	700 (lead)		
	Sheep		Muscle	4				
<b>B3D Mycotoxins</b>								
Mycotoxins	Cattle		Liver	30				
	Horses		Liver	1				
	Pigs		Liver	75				
	Sheep		Liver	16				
POULTRY								
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte	Species Broilers	Age & Sex	Matrix Liver	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte	Species Broilers Broilers	Age & Sex	Matrix Liver Serum	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2	Species Broilers Broilers Ducks	Age & Sex	Matrix Liver Serum Liver	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte	Species Broilers Broilers Ducks Hens	Age & Sex	Matrix Liver Serum Liver Liver	No of Analyses 540 65 9 30	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2	Species Broilers Broilers Ducks Hens Turkeys	Age & Sex	Matrix Liver Serum Liver Liver Liver	No of Analyses 540 65 9 30 77	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys	Age & Sex	Matrix Liver Serum Liver Liver Liver	No of Analyses 540 65 9 30 77	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys Broilers Ducitors	Age & Sex	Matrix Liver Serum Liver Liver Liver Feed	No of Analyses 540 65 9 30 77 207	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Broilers	Age & Sex	Matrix Liver Serum Liver Liver Liver Feed Liver	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Ducks	Age & Sex	Matrix Liver Serum Liver Liver Liver Liver Feed Liver Feed	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Ducks Ducks	Age & Sex	Matrix Liver Serum Liver Liver Liver Liver Feed Liver Feed Liver Feed	No of Analyses 540 65 9 30 77 207 424 5 9 9	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Broilers Ducks Hens Hens	Age & Sex	Matrix Liver Serum Liver Liver Liver Liver Feed Liver Feed Liver Feed Liver	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte A3 Hormones Steroid screen 2 A5 Beta-Agonists	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Ducks Ducks Hens Hens Turkeys	Age & Sex	Matrix Liver Serum Liver Liver Liver Liver Feed Liver Feed Liver Feed Liver	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		
Substance Group/Analyte	Species Broilers Broilers Ducks Hens Turkeys Broilers Broilers Ducks Ducks Hens Hens Turkeys Turkeys	Age & Sex	Matrix Liver Serum Liver Liver Liver Liver Feed Liver Feed Liver Feed Liver Feed	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)		

A6 Annex IV					
Chloramphenicol	Broilers	Muscle	666		
	Ducks	Muscle	15		
	Hens	Muscle	36		
	Turkeys	Muscle	44		
Nitrofurans	Broilers	Feed	290		
	Broilers	Muscle	557		
	Ducks	Feed	5		
	Ducks	Muscle	10		
	Hens	Feed	15		
	Hens	Muscle	33		
	Turkeys	Feed	27		
	Turkeys	Muscle	53		
Nitroimidazoles	Broilers	Feed	289		
	Broilers	Serum	940		
	Ducks	Feed	6		
	Ducks	Serum	17		
	Hens	Feed	14		
	Hens	Serum	36		
	Turkeys	Feed	28		
	Turkeys	Serum	70		
B1 Antimicrobial	T T		T		1
AMS1	Broilers	Muscle	1183		
	Ducks	Muscle	27		
	Geese	Muscle	3		
	Hens	Muscle	79		
	Turkeys	Muscle	108		
Flofenicol	Broilers	Muscle	156		
AMS2	Broilers	Muscle	538		
	Ducks	Muscle	8		
	Geese	Muscle	4		
	Turkeye	Muscle	70		
Tiomulin	Turkeys	Muscle	10		
B2A Anthelmintic	Drollers	wuscie	12		
Anthelmintics	Broilers	Liver	290		
	Ducks	Liver	9		
	Hens	Liver	31		
	Turkeys	Liver	72		
B2B Coccidiostate	<b>3</b>				1
Coccidiostats	Broilers	Liver	1380	1	10 (monensin)
	Hens	Liver	23		
	Turkeys	Liver	89	1	35 (maduramycin)
B2C Pesticide Scr	een				
Pyrethroids + Carbamates	Broilers	Fat	9		
	Broilers	Liver	87		
	Ducks	Liver	8		
	Hens	Liver	9		
	Turkeys	Liver	15		

B2E NSAIDs						
	Broilers		Liver	6		
	Ducks		Liver	6		
	Hens		Liver	6		
	Turkeys		Liver	6		
B3A Pesticide Scr	een				•	
	Broilers		Fat	9		
	Broilers		Liver	268		
	Ducks		Liver	6		
	Hens		Liver	10		
	Turkeys		Liver	12		
B3C Heavy Metals						
Metals	Broilers		Liver	10		
	Broilers		Muscle	87		
	Ducks		Muscle	4		
	Hens		Muscle	3		
	Turkeys		Muscle	8		
B3D Mycotoxins						l
Mycotoxins	Broilers		Liver	15		
	Hens		Liver	1		
	Turkeys		Liver	1		
EGGS	•		-	•	•	
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte A6 Annex IV	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Eggs	Age & Sex	<b>Matrix</b> Eggs	No of Analyses 187	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Eggs Eggs	Age & Sex	Matrix Eggs Eggs	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte A6 Annex IV Chloramphenicol Nitrofurans Nitroimidazoles	Species Eggs Eggs Eggs	Age & Sex	Matrix Eggs Eggs Eggs	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte A6 Annex IV Chloramphenicol Nitrofurans Nitroimidazoles B1 Antimicrobial	Species Eggs Eggs Eggs	Age & Sex	Matrix Eggs Eggs Eggs	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs	Age & Sex	Matrix Eggs Eggs Eggs Eggs	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs Eggs Eggs	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte A6 Annex IV Chloramphenicol Nitrofurans Nitroimidazoles B1 Antimicrobial AMS1 Florfenicol AMS2 AMS3	Species Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species         Eggs         Eggs	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses 187 161 161 161 179 73 127 198 35 35	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Substance Group/Analyte A6 Annex IV Chloramphenicol Nitrofurans Nitroimidazoles B1 Antimicrobial AMS1 Florfenicol AMS2 AMS3 Tiamulin B2A Fipronil Fipronil B2B Coccidiostats	Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses 187 161 161 161 161 179 73 127 198 35 35 105 640	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)
Substance Group/Analyte	Species Eggs Eggs Eggs Eggs Eggs Eggs Eggs Eg	Age & Sex	Matrix Eggs Eggs Eggs Eggs Eggs Eggs Eggs Egg	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (µg/kg/l)

FISH						
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
A3 Hormones						
Methyltestosterone	Trout		Muscle & Skin	5		
A6 Annex IV						
Chloramphenicol	Salmon		Muscle & Skin	185		
	Trout		Muscle & Skin	17		
Nitrofurans	Salmon		Muscle & Skin	186		
	Trout		Muscle & Skin	4		
Nitroimidazoles	Salmon		Muscle & Skin	190		
	Trout		Muscle & Skin	8		
B1 Antimicrobial						
				440		
AMS1	Saimon		Muscle & Skin	113		
	Trout		Muscle & Skin	5		
AMS2	Salmon		Muscle & Skin	37		
	Trout		Muscle & Skin	5		
	Turbot		Muscle & Skin	1		
AMS3	Salmon		Muscle & Skin	193		
	Trout		Muscle & Skin	5		
Florfenicol	Salmon		Muscle & Skin	97		
<b>B2A Anthelmintics</b>	5			•	-	
Anthelmintics	Salmon		Muscle & Skin	119		
	Trout		Muscle & Skin	2		
Avermectins	Salmon		Muscle & Skin	104		
	Trout		Muscle & Skin	2		
B2C Pesticide Scr	een					
Pyrethroids	Salmon		Muscle & Skin	138		
B3A Pesticide Scr	een				-	
	Salmon		Muscle & Skin	12		
	Trout		Muscle & Skin	3		
B3B Pesticide Scr	een					
OPs	Salmon		Muscle & Skin	45		
BC Heavy Metals						
Metals	Salmon		Muscle & Skin	24		
	Trout		Muscle & Skin	2		
B3D Mycotoxins	1		1		1	
	Salmon		Muscle & Skin	10		
	Trout		Muscle & Skin	3		
B3E Dyes	1	r	1	1	-	
Dyes	Salmon		Muscle & Skin	235		
	Trout		Muscle & Skin	71		

Species <t< th=""><th>MILK</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	MILK						
<table-container>A Annex VChloramphenicoCaldraMik892MaManGaltaMik6IIBaponCaltaMik6IICaltaMik6IIICaltaMik6IIIBaponCaltaMik60IICaltaMik50IIIBarlaMik60IIICaltaMik60IIISaponMik61IIIForencoCaltaMik141OSaponMik13IIAnsoMik13IIAnsoMik33IIAnsoMik33IIAnsoMik33IIAnsoMik33IIAnsoMik33IIAnsoMik33IIAnsoMik14IIAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14IAnsoMik14I</table-container>	Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (μg/kg/l)
Chloramphenical GolationCalifieImik882ImitImitSheepMilk5ImitImitDapsoneCalifieMilk34ImitCalifieMilk34ImitImitBarbinoticalMilk34ImitImitBarbinoticalCalifieMilk509ImitBarbinoticalCalifieMilk509ImitGalaMilk1ImitImitSheepMilk3ImitSheepMilk1ImitSheepMilk1ImitGolatMilk1ImitSheepMilk280ImitAMS2CalifieMilk280ImitSheepMilk1ImitGolatMilk375ImitMas3CalifieMilk375GolatMilk373ImitMas4GolatMilk373GolatMilk1ImitGolatMilk1ImitMas4GolatMilk1GolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1ImitGolatMilk1Imit <td>A6 Annex IV</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	A6 Annex IV						
GaisMik5ImageJapsoneCatteMik34ImageDapsoneCatteMik34ImageBASTCatteMik509ImageAMSTCatteMik509ImageGatsImageMik509ImageFlorencoCatteMik509ImageGotsImageMik1ImageGotsImageMik1ImageGotsImageMik1ImageGotsImageMik1ImageGotsImageMik1ImageGotsImageMik1ImageGotsImageMik30ImageAMS2CatteImageImageImageGotsImageMik33ImageAMS3CatteImageImageImageGotsImageMik33ImageAMS4GotsImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGotsImageImageImageImageGots <td< td=""><td>Chloramphenicol</td><td>Cattle</td><td></td><td>Milk</td><td>892</td><td></td><td></td></td<>	Chloramphenicol	Cattle		Milk	892		
SheepMik6Mik6DapsonCattleMik34IBartinicobis		Goats		Milk	5		
Dapsone CottsCattleMilk34IB1 AntimicrobisiB1 AntimicrobisiB1 AntimicrobisiGatsMilk509IGatsMilk6IGoatsMilk6IGoatsMilk100.34 (florfenicol)FlorenicolCattleMilk1411GoatsMilk11IGoatsMilk13IAMS2CattleMilk33IGoatsMilk280IIAMS2CattleMilk33IGoatsMilk33IIAMS3GattsMilk33IGoatsMilk33IIAMS4GattsMilk33IGattsMilk11IAMS4GattsMilk14IGattsMilk14IAMS4GattsMilk14IGatsMilk14ICefujuore GoatsMilk11IGatsMilk11ISheepMilk11ISheepMilk14ICefujuore GoatsMilk14IGatsMilk11ISheepMilk11ISheepMilk14IGatsMilk14ISheepMilk14IGatsMilk <td></td> <td>Sheep</td> <td></td> <td>Milk</td> <td>6</td> <td></td> <td></td>		Sheep		Milk	6		
GatsMik1Mik1Beaper in Mik509Indext in MikGatsMik509Indext in MikGatsMik3Indext in MikFlorfenicolGatsMik10.34 (forfenicol)GatsMik110.34 (forfenicol)GatsMik1Indext in MikAMS2GatsMik3Indext in MikGatsMik20Indext in MikGatsMik3Indext in MikGatsMik3Indext in MikGatsMik3Indext in MikGatsMik3Indext in MikGatsMik3Indext in MikGatsMik3Indext in MikAMS4GatsMik1Indext in MikGatsMik1Indext in MikAMS4GatsMik1Indext in MikGatsMik1Indext in MikGatsMik1Indext in MikGatsMik1Indext in MikGatsMik1Indext in MikArberintitsGatsMik1Indext in MikArberintitsGatsMik1Indext in MikArberintitsGatsMik1Indext in MikArberintitsGatsMik1Indext in MikArberintitsGatsMik1Indext in MikArberintitsGatsMik1In	Dapsone	Cattle		Milk	34		
B1 Antimicrobial     Catlie     Milk     509     M       AMS1     Catlie     Milk     509     M       Sheep     Milk     6     M       Florfenicol     Catlie     Milk     141     1     0.34 (florfenicol)       Goats     Milk     141     1     0.34 (florfenicol)       AMS2     Catlie     Milk     280     M       AMS2     Catlie     Milk     280     M       AMS2     Catlie     Milk     280     M       AMS3     Catlie     Milk     30     M       AMS3     Catlie     Milk     30     M       AMS3     Catlie     Milk     30     M       Catlie     Milk     30     M     M       AMS3     Catlie     Milk     10     M       Catlie     Milk     10     M     M       AMS4     Goats     Milk     11     M       Cefluinome     Catlie     Milk     11     M       Catlie     Milk     11     M       Catlie     Milk     11     M       Cefluinome     Catlie     Milk     410     M       Sheep     Milk     11     M     M<		Goats		Milk	1		
AMS1         Cattle         Mik         509         Image: constraint of the state of the	B1 Antimicrobial	-					
AnnoCodeCodeGoalsMikGoalsMikFlorfenicolGattleMik11GoalsMik1110.34 (florfenicol)FlorfenicolGattleMik11AMS2CattleMik33-GoalsMik280I-AMS2CattleMik33-GoalsMik33AMS3CattleMik33-GoalsMik33AMS3GoalsMik33-GoalsMik33AMS4GoalsMik33-GoalsMik1AMS4GoalsMik1-GoalsMik1CefquinomeCattleMik1-GoalsMik154GoalsMik1GoalsMik1CeftiolurCattleMik1-GoalsMik1AntheriniticCattleMik1-BaceMik10I-AntheriniticCattleMik1-SheepMik10I-AntheriniticCattleMik1-SheepMik302I-AntheriniticSheep	AMS1	Cattle		Milk	509		
Joda'sJoda'sJoda'sSolutionNink3IntermicionFlorfenicalCattleNink14110.34 (forfenicol)GoatsMik110.34 (forfenicol)AMS2CattleMik3IntermicionGoatsMik280IntermicionIntermicionAMS3CattleMik3IntermicionGoatsMik3IntermicionIntermicionAMS3CattleMik3IntermicionGoatsMik3IntermicionIntermicionAMS4GoatsMik3IntermicionAMS4GoatsMik11IntermicionGoatsMik11IntermicionGoatsMik11IntermicionGoatsMik11IntermicionGoatsMik11IntermicionGoatsMik11IntermicionGoatsMik105IntermicionGoatsMik105IntermicionGoatsMik105IntermicionMik105IntermicionIntermicionAnthelimitricsCattleMik410AnthelimitricsGoatsMik410AnthelimitricsCattleMik120AnthelimitricsCattleMik120AnthelimitricsGoatsMik120AnthelimitricsCattleMik120AnthelimitricsGoatsMik </td <td></td> <td>Goats</td> <td></td> <td>Milk</td> <td>3</td> <td></td> <td></td>		Goats		Milk	3		
Florencial Florencial CattleNink000.34 (florencial)Florencial GatsMilk110.34 (florencial)AMS2 		Shoon		Milk	5		
Prime         Catale         Mink         Init         Init <thinit< th="">         Init         Init         &lt;</thinit<>	Florfonical	Cattle		Milk	141	1	0.34 (florfenical)
Coals         Mik         1         Image         Image <thimage< th=""> <thimage< th=""> <thimage< t<="" td=""><td>FIOTIENICO</td><td>Caule</td><td></td><td></td><td>141</td><td>1</td><td></td></thimage<></thimage<></thimage<>	FIOTIENICO	Caule			141	1	
AMS2 AMS2 CatieCatieMilk3CatieGatsMilk280CatieSheepMilk3CatieAMS3CatieMilk35CatieCatieMilk375CatieSheepMilk3CatieAMS4CatieMilk3CatieSheepMilk3CatieCatieAMS4CatieMilk1CatieGoatsMilk1CatieCatieSheepMilk1CatieCatieCatieMilk154CatieCatieCatieMilk154CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieCatieMilk1CatieCatieSheepMilk4CatieCatieAnterimiticCatieMilk302CatieCatieMilk302CatieCatieSheepMilk11CatieCatieCatieMilk20CatieCatieSheepMilk12CatieCatieCatieMilk302Catie <td< td=""><td></td><td>Goals</td><td></td><td>IVIIIK</td><td>1</td><td></td><td></td></td<>		Goals		IVIIIK	1		
AnnolaCattleMilk280Image: CattleGoatsMilk3Image: CattleAMS3CattleMilk375Image: CattleGoatsMilk375Image: CattleAMS4GoatsMilk3Image: CattleGoatsMilk1Image: CattleImage: CattleGoatsMilk1Image: CattleImage: CattleGoatsMilk1Image: CattleImage: CattleGoatsMilk1Image: CattleImage: CattleGoatsMilk154Image: CattleImage: CattleGoatsMilk105Image: CattleImage: CattleGoatsImage: CattleImage: CattleImage: CattleGoatsImage: CattleImage: CattleImage: CattleGoatsImage: CattleImage: CattleImage: CattleAnthelimiticsCattleImage: CattleImage: CattleGoatsImage: CattleImage: CattleImage: CattleAnthelimiticsCattleImage: CattleImage: CattleGoatsImage: CattleImage: CattleImage: CattleAnterimiticsCattleImage: CattleImage: CattleImage: Image: Image	AM\$2	Sneep		MIIK	3		
GoatsMilk2Milk3SheepMilk375AAMS3GatsMilk375AGoatsMilk3ASheepMilk3AAMS4GoatsMilk3AAMS4GoatsMilk1AAMS4GoatsMilk1AAMS4GoatsMilk1ACefquinomeCattleMilk154AGoatsMilk154AAGoatsMilk105AASheepMilk105AAGoatsMilk1AACeftiofurGoatsMilk1ABoepMilk105AAAuthelminticsCattleMilk410AAuthelminticsCattleMilk410AAuthelminticsCattleMilk410AAuthelminticsCattleMilk410AAuthelminticsCattleMilk410AAuthelminticsCattleMilk302AAuthelminticsCattleMilk302AAuthelminticsCattleMilk302AAuthelminticsCattleMilk302AAuthelminticsCattleMilk30AAuthelminticsCattleMilk30AAuthelminticsCattleMilk30A	AWISZ	Cattle		Milk	280		
SheepMilk3 MikGateAMS3CattleMik375IGodsMik375IISheepMik3IIAMS4CattleMik3IIAMS4CattleMik1IIIAMS4SheepMik1IIICefquinomeCattleMik154IIIGodsMik154IIIICefquinomeCattleMik2IIIGodsMik105IIIIICeftiofurCattleMik105IIIISheepMik11IIIIIICeftiofurGodsMik105IIIIISheepMik11III <t< td=""><td></td><td>Goats</td><td></td><td>Milk</td><td>2</td><td></td><td></td></t<>		Goats		Milk	2		
AMS3CattleMilk375IGoatsMilk3IAMS4CatleMilk3IAMS4GoatsMilk1ICefquinomeCatleMilk1ICatleMilk154IICefquinomeCatleMilk220ICefquinomeCatleMilk12ICefquinomeCatleMilk12ICeftiofurCatleMilk12ICeftiofurCatleMilk105ICeftiofurCatleMilk105ISheepMilk105IISheepMilk105IISheepMilk105IISheepMilk10IISheepMilk10IIAnthelminticsCatleMilk41ISheepMilk41IIAvermectinsCatleMilk302ISheepMilk30IIISheepMilk13IIBate InternetMilk13IISheepMilk30IISheepMilk13IISheepMilk13IISheepMilk13IISheepMilk13IISheepMilk13II		Sheep		Milk	3		
GoalsMilk3 3ImageSheepMilk3 3ImageAMS4GatsImage1ImageGoatsImageMilk1ImageCefquinomeCattleMilk1ImageCattleImageMilk1ImageGoatsImageMilk1ImageCeftiofurCattleMilk105ImageGoatsImageMilk105ImageCeftiofurCattleMilk105ImageGoatsImageMilk10ImageSheepImageMilk10ImageMilk10ImageImageImageSheepImageMilk10ImageSheepImageMilk10ImageSheepImageMilk10ImageAuthelminticsCattleMilk410ImageSheepImageMilk410ImageSheepImageMilk30ImageAuthelminticsCattleMilk30ImageSheepImageMilk30ImageAuthelminticsCattleMilk30ImageSheepImageMilk10ImageAuthelminticsCattleMilk30ImageSheepImageMilk10ImageSheepImageMilk10ImageSheepImageMilk10Im	AMS3	Cattle		Milk	375		
AMS4         Cattle         Mik         2 or openation           AMS4         Cattle         Mik         1         Cattle         Mik         1           Sheep         Mik         1         Cattle         Mik         1         Cattle         Cattle         Mik         1         Cattle         Cattle         Mik         1         Cattle         Cattle         Mik         Cattle		Goats		Milk	3		
AMS4GoatsMink22.0IGoatsMilk1ISheepMilk1ICefquinomeCattleMilk154IGoatsMilk2IISheepMilk2IICeftiofurCattleMilk105IGoatsMilk105IIGoatsMilk1IISheepMilk1IISheepMilk1IIBackMilk1IISheepMilk1IISheepMilk1IIAnthelminticsCattleMilk410ISheepMilk410IIAvermectinsCattleMilk410ISheepMilk302IIAvermectinsCattleMilk2ISheepMilk302IIB2E NSAIDsMilk1IIBARPENTINE TO A Cattle INFORMANCE TO A CAT		Cattle		Milk	220		
NincOddsNinkISheepMilk1ICefquinomeCattleMilk154IGoatsMilk2IISheepMilk2IICeftiofurCattleMilk105IGoatsMilk105IISheepMilk105IIGoatsMilk1IISheepMilk1IIBabepMilk1IIBabepMilk410IIBabepMilk410IIBabepMilk410IIAnthelminticsCattleMilk410IGoatsMilk410IIAvermectinsCattleMilk302ISheepMilk302IIBabepMilk17210.48 (diclofenac)BabepMilk17210.48 (diclofenac)BabepMilk33IIBabepMilk33IIBabepMilk33IIBabepMilk1IIOCs/PCBsGoatsMilk1ISheepMilk1IISheepMilk1IISheepMilk1IISheepMilk1IISheepMilk <td>AMSA</td> <td>Goats</td> <td></td> <td>Milk</td> <td>1</td> <td></td> <td></td>	AMSA	Goats		Milk	1		
CefquinomeCattleMilk1ICefquinomeCattleMilk154IGoatsMilk2IISheepMilk2IICeftiofurCattleMilk105IGoatsMilk105IISheepMilk10IISheepMilk1IISheepMilk1IISheepMilk410IIAnthelminticsCattleMilk410IGoatsIMilk410IIAnthelminticsCattleMilk410IISheepMilk410IIIAnthelminticsCattleMilk410IISheepMilk302IIIAvermectinsCattleMilk302IIB2E NSAIDsMilk302IIIB2E NSAIDsMilk17210.48 (diclofenac)B3A Pesticide ScruptMilk33IICyclyPCBsCattleMilk333IISheepMilk1IIISheepMilk1IIISheepMilk1IIISheepMilk1IIISheepMilk1IISheepMilk1<	AMO4	Shoon		Milk	1		
OctiquitoringOctiguitoringOctig	Cefquinome	Cattle		Milk	154		
LocalsMilk1SheepMilk2Interpret in the second sec	Ociquinome	Goats		Milk	2		
SinepNink2ICeftiofurCattleMilk105IGoatsMilk1IIB2A AnthelminticsMilk1IIB2A AnthelminticsCattleMilk410IGoatsMilk410IIGoatsMilk6IIAvermectinsCattleMilk6IGoatsMilk302IIGoatsMilk3IIB2E NSAIDsMilk17210.48 (diclofenac)B3A Pesticide SceneerMilk33IIOCs/PCBsCattleMilk333IISheepMilk11IIIMilk11IIIIMilk11IIIIMilk11IIIIMilk11IIIIMilk11IIIIMilkMilkIIIIMilkIIIIIMilkIII		Shoon		Milk	2		
CattleCattleMilk105CattleGoatsMilk1Image: Cattle in the second se	Coffictur	Cattle		Mille	105		
GatsMilk1SheepMilk1Bill SheepAnthelminticsCattleGoatsMilk410GoatsMilk4SheepMilk6AvermectinsCattleMilkGoatsMilk302AvermectinsCattleMilkGoatsMilk2SheepMilk302SheepMilk3B2E NSAIDsSheepBase MilkMilkGoatsMilkMilk1SheepMilkSheepMilkGoatsMilkSheepMilkCs/PCBsCattleGoatsMilkMilk1Milk1	Centiolur	Calle		IVIIIK	105		
		Goats		MIIK	1		
BZA Anthelimitics         Cattle         Milk         410         Image: Cattle state	DOA Antholyminting	Sneep		IVIIIK	1		
AndreminitiesCattleMilk4 itGoatsMilk4SheepMilk6AvermectinsCattleMilk302GoatsMilk2SheepMilk3B2E NSAIDsMilk1721CattleMilk2GoatsMilk3B2E NSAIDsCattleMilkMilk33CoatsMilk3B3A Pesticide ScreerMilk33OCs/PCBsCattleMilk1SheepMilk1	Anthelmintics	Cattle		Mille	410		
$\begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Antheminitics	Caule			410		
SneepMilk6AvermectinsCattleMilk302GoatsMilk2		Goals		IVIIIK	4		
AvermectinsCattleMilk302GeatsGoatsMilk2Image: Cattle GoatsMilk3B2E NSAIDsCattleMilk17210.48 (diclofenac)GoatsMilk2Image: Cattle GoatsMilk3B3A Pesticide ScreenOCs/PCBsCattleMilk33Image: Cattle GoatsMilkMilk1Image: Cattle GoatsMilk1Image: Cattle GoatsMilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1MilkMilk1Image: Cattle GoatsMilk1		Sneep		MIIK	6		
GoatsMilk2SheepMilk3B2E NSAIDsB2E NSAIDsCattleMilk17210.48 (diclofenac)GoatsMilk2SheepMilk3OCs/PCBsCattleMilk33Image: Cattle ScienceGoatsMilk1OCs/PCBsCattleMilk1SheepMilk1	Avermectins	Cattle		Milk	302		
Sheep     Milk     3       B2E NSAIDs       B2E NSAIDs       Cattle     Milk     172     1     0.48 (diclofenac)       Goats     Milk     2     1       Sheep     Milk     3     1       B3A Pesticide Screen       OCs/PCBs     Cattle     Milk     33       Goats     Milk     1     1		Goats		Milk	2		
B2E NSAIDs         Cattle       Milk       172       1       0.48 (diclofenac)         Goats       Milk       2           Sheep       Milk       3           B3A Pesticide Screen         OCs/PCBs       Cattle       Milk       33           Milk       1             Milk       1		Sheep		Milk	3		
Cattle     Milk     172     1     0.48 (diclofenac)       Goats     Milk     2        Sheep     Milk     3        B3A Pesticide Screen       OCs/PCBs     Cattle     Milk     33       Goats     Milk     1        Sheep     Milk     1	BZE NSAIDS				155		
Goats         Milk         2         Image: Control of the system           B3A Pesticide Screen         Milk         33         Image: Control of the system           OCs/PCBs         Cattle         Milk         33         Image: Control of the system           OCs/PCBs         Cattle         Milk         1         Image: Control of the system           Sheep         Milk         1         Image: Control of the system         Image: Control of the system		Cattle		Milk	172	1	0.48 (diclofenac)
B3A Pesticide Screen         Milk         33         Milk         33           OCs/PCBs         Cattle         Milk         33         Image: Cattle science         Milk         1         Image: Cattle scitle science </td <td></td> <td>Goats</td> <td></td> <td>Milk</td> <td>2</td> <td></td> <td></td>		Goats		Milk	2		
OCs/PCBs     Cattle     Milk     33       Goats     Milk     1       Sheep     Milk     1	B3A Pesticide Scr	een		IVIIIK	3	I	1
OCs/PCBs         Octor         Octor         Octor           Goats         Milk         1         Image: Control of the second sec		Cattle		Milk	.33		
Sheep Milk 1	OCs/PCBs	Goats		Milk	1		
		Sheep		Milk	1		

B3B Pesticide Scr	een								
OPs	Cattle		Milk	38					
	Sheep		Milk	1					
B3C Heavy Metals									
Metals	Cattle		Milk	43					
B3D Mycotoxins		1							
Mycotoxins	Cattle		Milk	39					
GAME		1	1						
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (ug/kg)			
A2 Thyrostats									
Thyrostats	Deer		Liver	4					
A3 Hormones									
Steroid Screen 2	Deer		Liver	8					
A5 Beta-Agonists		1							
Beta-Agonists	Deer		Liver	12					
A6 Annex IV									
Nitroimidazoles	Deer		Muscle	4					
B1 Antimicrobial									
AMS1	Deer		Kidnev	28					
B2A Anthelmintics	1 2 00.		. aano y						
Anthelmintics	Deer		Liver	5					
/ ununon minuoo	Partridge		Liver	4					
	Pheasant		Liver	5					
	Red Grouse		Liver	6					
B2B Coccidiostats	5	•							
Coccidiostats	Partridge		Muscle	8	3	120, 250, 290 (lasalocid)			
B2C Pesticide Scr	een	•			•				
Pyrethroids	Deer		Kidney Fat	4					
B2D Sedatives	1	1	•		1				
	Deer		Liver	4					
B2E NSAIDS		1	T		I				
	Deer		Kidney	4					
B3A Pesticide Scr	een	1	I	1	ſ				
	Deer		Kidney Fat	7					
B3C Heavy Metals		1	T	1	I				
	Deer		Muscle	6					
Metals	Partridge		Muscle	6					
	Pheasant			6					
	Wild Deer		Muscle	101					

HONEY								
Substance Group/Analyte	Species	Age & Sex	Matrix	No of Analyses	No. above Action Level	Concentration where samples above the Action Level (ug/kg)		
A6 Annex IV								
Chloramphenicol	Bees		Honey	11				
Nitrofurans	Bees		Honey	11				
<b>B1</b> Antimicrobial								
AMS1	Bees		Honey	22				
AMS3	Bees		Honey	22				
AMS4	Bees		Honey	21				
AMS5	Bees		Honey	21				
B2C Pesticide Scr	een							
Pyrethroids	Bees		Honey	11				
B3A Pesticide Scr	een							
	Bees		Honey	13				
B3B Pesticide Scr	een							
OPs	Bees		Honey	15				
B3C Heavy Metals								
Metals	Bees		Honey	14	1	250 (lead)		
B3F								
Amitraz	Bees		Honey	11				
Naphthalene	Bees		Honey	11				