


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>2632</p> <p>Accredited to ISO/IEC 126327025:2005</p>	<h3>Agri-Food and Biosciences Institute (AFBI)</h3> <p>Issue No: 046 Issue date: 10 October 2018</p>	
	<p>Stoney Road Stormont Belfast Northern Ireland BT4 3SD</p>	<p>Contact: Cynthia McVeigh Tel: +44 (0) 2890 525628 Fax: +44 (0) 2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Veterinary Sciences Division Stoney Road Stormont Belfast BT4 3SD</p> <p>Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>	<p>Chemistry Microbiology Serology Virology</p>	A
<p>Address Marine Ecology Section Agriculture, Food and Environment Sciences Division Newforge Lane Belfast BT9 5PX</p> <p>Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>	<p>Seawater analysis</p>	B
<p>Address Analytic Services Laboratory Hillsborough Large Park Hillsborough County Down BT26 6DR</p> <p>Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>	<p>Chemistry</p>	C



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Location details	Activity	Location code
Address Plant Health Newforge Lane Belfast BT9 5PX Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk	Nematology	D
Address Food Science Division Newforge Lane Belfast BT9 5PX Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk	Radiochemistry	E
Address Food Microbiology Unit Bacteriology Branch Veterinary Surveillance Division Newforge Lane Belfast BT9 5PX Local contact Cynthia McVeigh Tel: +44 (0)2890 525628 Fax: +44 (0)2890 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk	Microbiology	F



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED	<u>Chemistry</u>	Documented in-house methods:	
Animal Feedingstuffs	Aflatoxin (Total)	SOP PRL 171 using ELISA	A
Animal Feeding Stuffs and by-Products	Ash	Method ASL 3	C
	Dry Matter	Method ASL 9	
Animal Feeding Stuffs, By-Products and Oil Seeds	Oil 'A'	Method ASL 5	C
	Oil 'B'		
Oven Dried Faeces	Gross energy (17.0 - 21.5 Mj/KgDM)		
Oven Dried Silage	Gross energy (16.0 - 22.0 Mj/KgDM)		
Oven Dried Concentrates	Gross energy (15.0 - 25.0 Mj/KgDM)		
Fresh Silage	Gross energy (2.0 - 7.5 MJ/KgDM)	Method ASL 11 using Parr Bomb Calorimetry	C
Fresh Milk	Gross energy (1.95 - 5.0 MJ/KgDM)		
Fresh Urine	Gross energy (0.05 - 0.87 MJ/KgDM)		
Milk	Protein, Fat and Lactose	Method ASL 8 by Milkoscan	C
Forage and concentrates	Nitrogen	Method ASL 7 by DUMAS	C
Animal Feeding Stuffs, By products and pet foods	Nitrogen	Method ASL 4 by Kjeldahl digestion	C
Animal Feeding Stuffs and By-products	Crude Fibre	Method ASL 10 by Fibre Analyzer (filer bag technique)	C



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Grass silage	HFIS Forage Analysis Predicted parameters include Dry Matter (%), pH, Protein (%DM), ME (MJ/kg DM), D-value (%DM), DMD (%DM), FIM Intake (g/kgW ^{0.75}), HFIS Intake (g/kgW ^{0.75}), Lactic acid (%DM), VFAs (%DM), NDF (%DM), Soluble sugars (%DM) & Oil (%DM)	Method ASL 6 by NIRS scan using FOSS NIRS system	C
Grass	Ensilability test Nitrate (50-5000ppm), Buffering capacity (50-1000meq/kg DM)	Method ASL 2 by wet Chemistry using Metrohm Tiemo	C
Animal feedstuffs, animal products, animal tissues, integument, body fluids and excretions of food producing animals and shellfish, Milk, Fats and Oils, Butter, Meat and Meat products, Fish and Fish products (excluding offal)	Identification and quantification of residues of licensed veterinary medicinal drugs and unauthorised substances and marine biotoxins. Pesticides and organic contaminants	Methods developed and validated following the Flexible Scope procedure: CSD 380 by GC/MS/MS, LC-MS/MS and ICP-MS	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd) Animal Feedingsuffs	<u>Chemistry</u> (cont'd) Determination of Veterinary drugs encompassing: Amprolium Avilamycin Carbadox Chloramphenicol Chlortetracycline Clopidol Decoquinatate Diclazuril Dimetridazole Emamectin Ethopabate Fenbendazole Florfenicol Flubendazole Halofuginone Ipronidazole Ivermectin Lasalocid Lincomycin Maduramicin Metronidazole Monensin Narasin Nicarbazin Olaquinox Oxytetracycline Penicillin V Robenidine Ronidazole Salinomycin Semduramicin Spiramycin Sulphadiazine Sulphamethazine Teflubenzuron Tiamulin Tilmicosin Trimethoprim Tylosin Tyvalosin Valnemulin	Documented in-house methods: CSD 386 by LC-MS/MS	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Animal Feedingsuffs	Nitrofurantoin parent drugs encompassing: Furazolidone Furaltadone Nitrofurantoin Nitrofurazone Nifursol	CSD 313 by LC-MS/MS	A
Avian and bovine muscle and bovine, ovine and porcine kidney, milk and eggs	Quinolones, including: Ciprofloxacin Danofloxacin Difloxacin Enrofloxacin Flumequine Marbofloxacin Oxolinic acid	CSD 360 by LC-MS/MS	A
Bovine, ovine, porcine kidney and avian muscle	Amphenicol antibiotics: Florfenicol Florfenicol amine Thiamphenicol	CSD 146 using immunobiosensor	A
Avian muscle	Chloramphenicol	CSD 202 by SPR Biosensor	A
Avian, bovine, ovine and porcine liver and egg	Coccidiostats encompassing: Clazuril Decoquinatate Diclazuril Halofuginone Lasalocid Maduramicin Monensin Narasin Nicarbazin Robenidine Salinomycin Semduramicin	CSD 382 by LC-MS/MS	A
Equine plasma, milk	Phenylbutazone	CSD 317 by LC-MS/MS	A
Bovine and ovine urine	α - and β -Nortestosterone	CSD 331 by GC-MS/MS	A



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<p>ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)</p> <p>Bovine, porcine, and ovine kidney; bovine, avian and porcine muscle and bovine milk</p>	<p><u>Chemistry</u> (cont'd)</p> <p>Aminoglycosides, encompassing: Apramycin Dihydrostreptomycin Gentamycin C1, C1a, C2/C2a Kanamycin Neomycin Paromomycin Spectinomycin Streptomycin</p>	<p>Documented in-house methods:</p> <p>CSD 348 by LC-MS/MS</p>	A
<p>Bovine, ovine and porcine kidney</p>	<p>Tranquillisers: Acepromazine Azaperone Azaperol Carazolol Chlorpromazine Haloperidol Propionylpromazine Xylazine</p>	<p>CSD 390 by LC-MS/MS</p>	A
<p>Bovine and porcine kidney, ovine kidney, avian liver and serum, turkey muscle, milk, egg and feeding stuffs</p>	<p>Nitromidazoles, encompassing: Dimetridazole Hydroxydimetridazole Hydroxyipronidazole Ipronidazole Metronidazole Ronidazole</p>	<p>CSD 337 by LC-MS/MS</p>	A



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<p>ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)</p> <p>Avian, bovine, ovine and porcine liver, bovine muscle and milk</p>	<p><u>Chemistry</u> (cont'd)</p> <p>Anti-parasitics including:</p> <ul style="list-style-type: none"> Abamectin Albendazole Albendazole 2-amino sulphone Albendazole sulphone Albendazole sulphoxide Cambendazole Clorsulon Closantel Coumaphos Coumaphos-oxon Derquantel Doramectin Emamectin Eprinomectin Fenbendazole Fenbendazole sulphone Fenbendazole sulphoxide Flubendazole Flubendazole-amino Flubendazole-hydroxy Ivermectin Levamisole Mebendazole Mebendazole-amino Mebendazole-hydroxy Monepantel Morantel Moxidectin Niclozamide Nitroxylnil Oxibendazole Oxibendazole-amino Oxyclozanide Rafoxanide Thiabendazole Thiabendazole-hydroxy Triclabendazole Triclabendazole-keto Triclabendazole-sulphone Triclabendazole-sulphoxide 	<p>Documented in-house methods:</p> <p>CSD 384 by LC-MS/MS</p>	<p>A</p>
<p>Eggs</p>	<p>Fipronil</p>	<p>CSD 384 by LC-MS/MS</p>	<p>A</p>



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Bovine, Porcine kidney, Fish Muscle, Milk	Florfenicol	CSD 389 by LC-MS/MS	A
Bovine liver	Imidocarb	CSD 377 by LC-MS/MS	A
Bovine liver	Imidocarb	CSD 135 SPR Immunobiosensor	A
Bovine urine	Chloramphenicol	CSD 205 by SPR Biosensor	A
Bovine urine	Ractopamine	CSD 128 by Immunobiosenor	A
Bovine urine	Zeranol and the Fusarium spp toxins, encompassing: Zeranol Taleranol α -Zearalenol β -Zearalenol Zearalenone	CSD 324 by LC-MS/MS	A
Bovine urine	β -Agonists including, but not restricted to: Bambuterol Cimaterol Cimbuterol Clenbuterol Hydroxymethylclenbuterol Mabuterol Mapenterol Methylclenbuterol Salbutamol Tulobuterol	CSD 112 by SPR Biosensor	A
Bovine, ovine & porcine kidney, Bovine, ovine, porcine, avian & fish muscle and milk	Tetracyclines, including: Chlortetracycline Doxycycline Oxytetracycline Tetracycline	CSD 375 by LC-MS/MS	A



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Bovine, ovine and porcine kidney	Sedatives screen including, but not necessarily restricted to the following: Acepromazine Carazolol Chlorpromazine Propionylpromazine	CSD 127 by ELISA	A
Bovine, ovine and porcine kidney, avian and fish muscle, bovine urine, milk; egg and honey	Chloramphenicol	CSD 301 by LC MS/MS	A
Bovine, ovine and porcine kidney, avian liver, milk, egg and avian serum	Nitromidazoles screen including, but not restricted to the following: Carnidazole and Ornidazole Dimetridazole Hydroxydimetridazole Hydroxyipronidazole Hydroxymetronidazole Ipronidazole Metronidazole Ronidazole	CSD 113 by SPR Biosensor	A
Bovine, ovine and porcine kidney, avian muscle, milk and egg	Sulphonamides, including, but not limited to the following: Sulphadiazine Sulphadoxine Sulphamethazine Sulphathiazole Sulphaquinoxaline Sulphatroxazole Sulphamethoxyipyridazine Sulphachloropyridazine	CSD 210-213 by Thin Layer Chromatography	A



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<p>Bovine, ovine and porcine kidney; avian, fish and porcine muscle; shrimp and eggs</p>	<p>Nitrofurantoin metabolites, encompassing: AHD AMOZ AOZ SEM</p>	<p>CSD 303 by LC MS/MS</p>	A
<p>Bovine, ovine and porcine liver</p>	<p>Corticosteroids, encompassing: Beclomethasone Betamethasone Cortisol Cortisone Dexamethasone Flucinolone acetonide Flumethasone Flunisolide Flurometholone Methylprednisolone Prednisolone Prednisone Triamcinolone acetonide</p>	<p>CSD 335 by LC-MS/MS</p>	A



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<p>ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)</p> <p>Bovine, ovine and porcine liver and urine; avian liver, bovine retina and animal feeding stuffs</p>	<p><u>Chemistry</u> (cont'd)</p> <p>β-Agonist confirmation encompassing: Brombuterol Bromochlorbuterol Cimaterol Cimbuterol Clenbuterol Clenpenterol Hydroxymethylclenbuterol Isoxsuprine Mabuterol Mapenterol Ractopamine Salbutamol Salmeterol Terbutaline Tulobuterol Zilpaterol</p>	<p>Documented in-house methods:</p> <p>CSD 306 by LC MS/MS</p>	A
<p>Bovine, ovine and porcine liver, equine kidney, bovine and equine muscle</p>	<p>Non-Steroidal Anti-Inflammatory drugs encompassing: Carprofen Diclofenac Etodolac Flunixin Ketoprofen Mefenamic acid Meloxicam Naproxen Niflumic acid Phenylbutazone Tolfenamic acid Vedaprofen</p>	<p>CSD 340 by LC-MS/MS</p>	A
<p>Bovine, ovine and porcine urine</p>	<p>Thyrostats: Dimethylthiouracil Ethylthiouracil Mercaptobenzimidazole Methimazole (tapazole) Methylthiouracil Phenylthiouracil Propylthiouracil Thiouracil</p>	<p>CSD 333 by LC-MS/MS</p>	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Bovine, ovine, avian and porcine liver	β-Agonists including, but not restricted to: Bambuterol Carbuterol Clenbuterol Hydroxymethylclenbuterol Mabuterol Mapenterol Methylclenbuterol Pirbuterol Salbutamol Terbutaline Tulobuterol	CSD 111 by SPR Biosensor	A
Bovine, ovine, porcine kidney fat and bovine serum	Gestagens, encompassing: Altrenogest Chlormadinone acetate Delmadinone acetate Flurogestone acetate Medroxyprogesterone acetate Megestrol acetate	CSD 326 by LC-MS/MS	A



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<p>ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)</p> <p>Bovine, ovine, porcine kidney, avian, bovine and porcine muscle milk and avian egg</p>	<p><u>Chemistry</u> (cont'd)</p> <p>Sulphonamides, encompassing:</p> <p>Dapsone Sulphabenzamide Sulphacetamide Sulphachloropyridazine Sulphadiazine Sulphadimethoxine Sulphadimidine Sulphadoxine Sulphaguanidine Sulphamerazine Sulphameter Sulphamethizole Sulphamethoxazole Sulphamethoxypyridazine Sulphamonomethoxine Sulphamoxole Sulphanilamide Sulphapyridine Sulphaquinoxaline Sulphathiazole Sulphatroxazole Sulphisomidine Sulphisoxazole</p>	<p>Documented in-house methods:</p> <p>CSD 309 by LC-MS/MS</p>	A
<p>Bovine, ovine, porcine kidney, avian, bovine and porcine muscle milk and avian egg.</p>	<p>Macrolides and Lincosamides including:</p> <p>3-O-Acetyltylosin Erythromycin A Gamithromycin Josamycin Lincomycin Pirlimycin Spiramycin Tildipirosin Tilmicosin Tulathromycin Tylosin A Tylvalosin</p>	<p>CSD 373 by LC-MS/MS</p>	A
<p>Bovine, ovine and porcine kidney</p>	<p>Chloramphenicol</p>	<p>CSD 203 by SPR Biosensor</p>	A



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<p>ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)</p> <p>Bovine, porcine and ovine kidney; bovine and avian muscle and egg</p>	<p><u>Chemistry</u> (cont'd)</p> <p>Antimicrobial substances including, but not limited to the following:</p> <ul style="list-style-type: none"> Amoxycillin Ampicillin Apramycin Cefquinone Ceftiofur Cephalexin Chlortetracycline Ciprofloxacin Danofloxacin Difloxacin Doxycycline Enrofloxacin Erythromycin Flumequine Kanamycin Lincomycin Marbofloxacin Nafcillin Neomycin Norfloxacin Oxacillin Oxytetracycline Penicillin G Pirlimycin Sarafloxacin Tetracycline Tilmicosin Tulathromycin 	<p>Documented in-house methods:</p> <p>CSD 222 by Microbial growth inhibition</p>	<p align="center">A</p>



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd) Bovine, porcine and ovine urine	<u>Chemistry</u> (cont'd) Steroids encompassing: ADD α-boldenone β-boldenone CLAD Dexamethasone Dienestrol Diethylstilboestrol Ethisterone Fluoxymesterone Hexestrol Hydroxystanozolol Medroxyprogesterone Methenolone Methylboldenone Methyltestosterone Norethandrolone Norgestrel 17α & 17β-19-Nortestosterone Progesterone Stanozolol Taleranol Testosterone α-Trenbolone Zeranol	Documented in-house methods: CSD 316 by LC-MS/MS	A
Bovine Liver	Cadmium	CSD 601 using ICP-MS	A
Compound Feed and Mineral Feed	Arsenic Cadmium Calcium Cobalt Copper Iron Lead Selenium Sodium Phosphorus Magnesium Manganese Zinc	SOP PRL 182 by microwave digestion followed by ICP-OES	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Compound Feed and Mineral Feed	Mercury	SOP PRL 189 using microwave digestion followed by atomic fluorescence spectroscopy	A
Egg	Chloramphenicol	CSD 204 by SPR Biosensor	A
Fish muscle	Triphenylmethane phenothiazine & phenoxaline/ oxazone dyes, including: Azure Blue Blue BO Brilliant Green Crystal Violet Ethyl Violet Malachite Green Methylene Blue New Methylene Blue Nile Blue A Pararosaniline base Rhodamine 6G Victoria Blue B Victoria Blue R Victoria Pure	CSD 363 by LC-MS/MS	A
Milk	Antimicrobial substances including, but not limited to the following: Ampicillin Cefalonium Ceftiofur Chlortetracycline Danofloxacin Dicloxacillin Dihydrostreptomycin Enrofloxacin Erythromycin Neomycin Oxytetracycline Spiramycin	CSD 223 by Microbial growth inhibition	A



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FOOD AND FOOD PRODUCTS	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Milk Powder, meal, milk and rice protein	Melamine confirmatory	CSD 367 by LC-MS/MS	A
Milk	Chloramphenicol	CSD 201 by SPR Biosensor	A
	Dapsone	CSD 131 by Immunobiosensor	A
Pig Feed	Methyltestosterone	CSD 385 by LC-MS/MS	A
Plasma	Phenylbutazone and oxyphenbutazone	CSD 392 by Supported Liquid Extraction and determination by LC-MS-MS	A
Porcine bile	Sulphadiazine	CSD 216 by ELISA	A
Porcine liver	Quinoxaline-2-carboxylic acid, 3 Methyl-quinoxaline-2-carboxylic acid confirmation	CSD 304 by LC MS/MS	A
Porcine liver	Ractopamine	CSD 108 by SPR Biosensor	A
Porcine muscle	Ractopamine	CSD 393 by UHPLC-MS/MS	A
Retina	Clenbuterol	CSD 137 by ELISA	A
Salmonid muscle	Triphenylmethane dyes: Crystal violet Leucocrystal violet Leucomalachite green Malachite green	CSD 133 by SPR Biosensor	A



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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Agri-Food Biosciences Institute (AFBI)

Issue No: 046 Issue date: 10 October 2018

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (Cont'd)	<u>Chemistry</u> (cont'd)	Documented in-house methods:	
Mussels, native and pacific oysters, Manila clams, cooked mussel, whole queen scallop, king scallop (whole, adductor & adductor/roe)	Determination of Lipophilic (DSP) Toxins	CSB 379 by LC-MS/MS	A
King scallops, mussels, pacific and native oysters	Quantitative analysis of Paralytic toxins	CSB 409 by HPLC	A
Shellfish	Domoic acid confirmatory	CSD 406 by HPLC-UV	A
Shellfish	PSP detection	CSD 403, bioassay as described in AOAC official methods of analysis (1995) 959.08 Supplement 1997	A
Shellfish	PSP screen	CSD 408 by HPLC	A
Animal Products, Fats and Oils, Butter, Meat and Meat Products, Fish and Fish Products (excluding offal)	Pesticides and organic contaminants: See Table 1 for details of residues and contaminants.	PRL 166 using GC-MS/MS	A
ENVIRONMENTAL SAMPLES	<u>Radiochemical Tests</u>		
FOOD AND FOOD PRODUCTS (Seafood and Dairy) and WATER	Gamma- Radioactivity (30-2000 KeV)	RNL1-6 using Gamma Spectroscopy with software and calculations provided by instrument manufacturers EG and G Ortec	E



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED	<u>Histopathology</u>	Documented In-House Methods	
Bovine, deer and badger tissue	Identification of Mycobacterial lesions consistent with bovine tuberculosis in histology tissue sections	DSIB 332 by haematoxylin and eosin stain (H & E) and Ziehl-Neelsen (ZN) staining	A
Brainstem tissue	Prion Protein	TSE 025 by Western Blot (GEL[PAGE]) Electrophoresis and Blot system	A
		TSE 015 Tissue processing - Automated method	A
		TSE 021 Tissue processing - manual method	A
		TSE 016 Prion protein detection by ELISA	A
ANIMAL FEEDINGSTUFFS AND COMPOSTS	<u>Microbiological Tests</u>	Documented In-House Methods	
	Detection:		
	<i>Salmonella</i> spp	FMU 10 in accordance with the Animal By-Products (Enforcement) Regulations (Northern Ireland) 2011 based on BS EN ISO 6579-1:2017 Confirmation by biochemical profile and serology using Prolab antisera	F
	Enumeration:		
	Enterobacteriaceae	FMU 20 in accordance with the Animal By-Products (Enforcement) Regulation (Northern Ireland) 2011 based on BS EN ISO 21528-2:2017	F
	<i>Clostridium perfringens</i>	FMU 22 in accordance with the Animal By-Products (Enforcement) Regulation (Northern Ireland) 2011 based on BS EN ISO 7937:2004	F



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	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
BEEF (raw trim and mince)	Detection: Presumptive <i>Escherichia coli</i> O157 (including H7)	FMU 27 based on Health Products and Food Branch, Health Canada MFLP-82:2014 using Merck Singlepath <i>E. coli</i> O157 kit	F
CARCASS SWABS	<i>Salmonella</i> spp	FMU 11 based on USDA/FSIS MLG 4.09:2017. Confirmation by biochemical profile and serology using Prolab antisera	F
HYGIENE SWABS	<i>Salmonella</i> spp	FMU 10 based on BS EN ISO 6579-1:2017 Confirmation by biochemical profile and serology using Prolab antisera	F
FAECES	<i>Campylobacter</i> spp (including identification)	FMU 25 in-house method by direct plating onto mCCD with subsequent biochemical confirmation and identification to species level	F
FAECES (including Caeca)	Enumeration: <i>Campylobacter</i> spp (including identification)	FMU 25 based on 10272-2:2017 with subsequent biochemical confirmation and identification to species level	F
FOOD AND FOOD PRODUCTS	Detection: <i>Campylobacter</i> spp (including identification)	FMU 25 based on 10272-1:2017 with subsequent biochemical confirmation and identification to species level	F
	<i>Listeria monocytogenes</i> and species (including identification)	FMU 13 based on BS EN ISO 11290-1:2017 with identification using API Listeria	F



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FOOD AND FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Detection: <i>Salmonella</i> spp	FMU 10 based on BS EN ISO 6579-1:2017. Confirmation by biochemical profile and serology using ProLab antisera	F
	Enumeration: Enterobacteriaceae at 37°C	FMU 20 based on BS ISO 21528-2: 2017	F
	Coagulase-positive Staphylococci including <i>Staphylococcus aureus</i>	FMU 15 based on BS EN ISO 6888-1:1999 confirmed by tube coagulase reaction	F
	Aerobic Colony Count at 30°C	1) FMU 12 based on BS EN ISO 4833-1:2013 2) FMU 12 based on BS EN ISO 4833-2:2013	F F
MILK AND DAIRY PRODUCTS	<u>Chemical Tests</u>		
Liquid milks and creams of bovine origin	Inhibitory substances (qualitative)	FMU 16 based on EEC Directive 91/180/EEC (1991)	F
	Phosphatase Test (excluding detection of microbial phosphatase and reactivation determination)	FMU 19 based on BS EN ISO 11816-1:2013 (fluorimetric method)	F
	<u>Microbiological Tests</u> Detection: <i>Listeria monocytogenes</i> and species (including identification)	FMU 13 based on BS EN ISO 11290-1:2017 with identification using API Listeria	F



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MILK AND DAIRY PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Detection: <i>Salmonella</i> spp	FMU 10 based on BS EN ISO 6579-1:2017. Confirmation by biochemical profile and serology using ProLab antisera	F
	Enumeration: Coliforms at 30°C	FMU 18 based on BS ISO 4832: 2006	F
ENVIRONMENTAL SWABS (Including Boot swabs)	Enterobacteriaceae at 30°C	FMU 20 based on BS ISO 21528-2:2017	F
	Coagulase-positive Staphylococci including <i>Staphylococcus aureus</i>	FMU 15 based on BS EN ISO 6888-1:1999 confirmed by tube coagulase reaction	F
	Aerobic Colony Count at 30°C	FMU 12 based on BS EN ISO 4833-1:2013	F
RAW MEATS AND CARCASS RINSES	<i>Campylobacter</i> spp (including identification)	FMU 25 based on 10272-2:2017 with subsequent biochemical confirmation and identification to species level	F
	Detection: <i>Campylobacter</i> spp (including identification)	FMU 25 in-house method with subsequent biochemical confirmation and identification to species level	F
	Enumeration: <i>Campylobacter</i> spp (including identification)	FMU 25 based on 10272-2:2017 with subsequent biochemical confirmation and identification to species level	F



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MICROBIAL CULTURES/ISOLATES	<u>Microbiological Tests</u> (cont'd) Identification: <i>Salmonella</i> serotyping	Documented In-House Methods FMU 10 (Confirmation stages) Identification and serogrouping using biochemical profile and serology using Prolab antisera	F
ANIMAL TISSUES & FLUIDS - AS SPECIFIED			
Animal Tissues	Identification of <i>Mycobacterium bovis</i>	BAC 403 by bacterial isolation and culture	A
Bovine lymph nodes and vaginal swabs	Isolation and identification of <i>Brucella abortus</i>	SOP BAC 852 and SOP BAC 853 Culture, serological and biochemical characterisation	A
Dust (house), faeces, swabs, litter, meconium, viscera, cultures, feed dust, pig samples, zoonoses and sample follow up	Isolation of <i>Salmonella</i> spp	SOP BAC 262 and SOP BAC 264 Methodologies conform to Microbiological Standard Method: BS EN ISO 6579:2002 A1:2007	A
<i>Salmonella</i> cultures	Antimicrobial Resistance testing of <i>Salmonella</i> spp	BAC 271	A
<i>Salmonella</i> cultures	Biochemical I.D. of <i>Salmonella</i> cultures	BAC 270 (Conforms to BS EN ISO 6579:2002 A1:2007)	A
<i>Salmonella</i> cultures	Serotyping of <i>Salmonella</i> cultures	BAC 268 Conforms to BS EN ISO 6579:2002 A1:2007	A
	<u>Molecular Biology</u>		
Animal tissues, blood, cultures, cell supernatant, faeces, milk, semen and swabs	Detection of Veterinary Pathogens DNA or RNA	Methods developed and validated following the Flexible Scope procedure: DISB193 by manual or robotic extraction using Real Time PCR using extraction and test kits	A



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	<u>Molecular Biology</u> (cont'd)	Documented In-house methods:	
Animal tissues, fish and shellfish tissues blood, serum, plasma, allantoic fluid, cultures, cell supernatant, faeces, semen and swabs	Detection of Veterinary Pathogens viral, bacterial and parasitic DNA or RNA	Methods developed and validated following the Flexible Scope procedure: VMDL 98 by manual or robotic extraction using Real Time PCR using extraction and test kits	A
Avian tissue, faeces and swabs	Avian Influenza virus matrix gene	VMDL 35 using RT-PCR	A
	Identification of avian influenza H5, H7, N1 subtypes	VMDL 66 using RT-PCR	A
Avian tissue, faeces and swabs	Avian Paramyxovirus serotype 1 RNA	VDML 49 using RT-PCR	A
Tissues, serum	Classical Swine Fever	VMDL 64 using RT-PCR	A
Bovine Tissues and blood	DNA profiling - identity and parentage testing	BAC 662 & 663 by manual and automated extraction and genetic sequencing	A
DNA Isolates	Identification of <i>Mycobacterium bovis</i>	BAC 653 by spoligotyping	A
Fish tissues, serum and cell cultures	Infectious salmon anaemia virus RNA	FDU 733 using RT-PCR	A
Fish tissues, serum and cell cultures	Viral haemorrhagic septicaemia virus RNA	FDU 734 using RT-PCR	A
Fish tissues, serum and cell cultures	Infectious haemopoietic necrosis virus RNA	FDU 735 using RT-PCR	A
Fish tissues, serum and cell cultures	Koi herpes virus DNA	FDU 738 using RT-PCR	A
Fish tissues and serum	<i>Gyrodactylus</i> species <i>salaris</i> and <i>thymalli</i> DNA	FDU 749 using RT-PCR	A
Fish tissues, serum (individual and pooled) and cell cultures	Salmonid alphavirus RNA	FDU 727 using RT-PCR	A



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	<u>Molecular Biology</u> (cont'd)	Documented In-house methods:	
Shellfish tissue	Bonamia spp DNA	FDU 739 using RT-PCR	A
Serum (individual and pooled), milk, semen and tissue	Detection of Bovine Viral Diarrhoea virus (BVDV)	DSIB 184 using RT-PCR	A
Faeces	Johnes Disease (MAP)	DSIB 183 using RT-PCR	A
Meat products, carcass swabs, environmental sponge swabs	Detection and isolation of Shigatoxin-Producing <i>E. coli</i> (STEC serogroups: O157, O26, O45, O103, O111, O121, O145)	In-house method FMU 26 using Bioteccon Foodproof STEC PCR screening and detection kits for target genes stx1, stx2 and eae; IMS; culture on modified Rainbow agar and confirmation using latex agglutination and PCR. Method is based on USDA-FSIS procedures and algorithms for O157:H7 and other Shigatoxin-producing <i>E. coli</i> serotypes.	F
PLANT MATERIALS AND SOILS	<u>Plant Health Diagnostic Tests</u>	Documented In-house methods:	
Soil	Extraction, count and identification of cyst nematodes	PHEP 13 Fenwick Can Method and microscopy	D
Peat	Extraction, count and identification of Potato Cyst Nematodes	PHEP 13 Alcohol flotation and microscopy	D
Soil and Sediments	Extraction, count and identification of free living plant parasitic active nematodes	PHEP 13 Cobb's technique incorporating the Baermann funnel and microscopy	D
Soil and plant material	Extraction, count and identification of free living plant parasitic nematodes	PHEP 13 Baermann funnel and microscopy	D
Plant Material	Extraction, count and identification of free living plant parasitic nematodes	PHEP 13 Mistifier funnel spray method and microscopy	D



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED	<u>Serology</u>	Documented in-house methods:	
Whole blood, clotted blood, faeces, milk, plasma, serum, semen, and animal tissues	Detection of Antibodies and Antigens to Veterinary Pathogens	Methods developed and validated following the Flexible Scope Procedure DISB193 by manual ELISA processing using test kits	A
Whole blood, clotted blood, serum and plasma	Detection of Antibodies to: Veterinary Pathogens	Methods developed and validated following the Flexible Scope Procedure: 1) IDB 1004 using agar geldiffusion under flexible scope 2) IDB 1004 by agglutination with commercially available reagents under flexible scope 3) IDB 1004 by Haemagglutination inhibition under flexible scope 4) IDB 1004 by compliment fixation under flexible scope 5) IDB 1004 by manual and automated ELISA processing using test kit under flexible scope	A A A A A
Whole, clotted and dried blood, serum, plasma, milk, and meat juices			A
Blood supernatant	Interferon-gamma	BAC 764 by ELISA (Prionics)	A
Serum	Detection of Antibodies to: Avian Influenza (AI) H5 and H7		
Bovine serum and plasma	Enzootic bovine leucosis (EBL)	IDB 760 by Haemagglutination Inhibition IDB 501 by ELISA test kit (IDEXX)	A A



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	<u>Serology</u> (cont'd) Detection of Antibodies to: (cont'd)	Documented in-house methods:	
Bovine serum	<i>Brucella abortus</i> - screening methods	1) SOP IDB 18, 22 & 23 by serum agglutination test (SAT) - manual and automated	A
Bovine Milk (individual or bulk)		2) SOP IDB 22 by ELISA	A
Bovine serum	<i>Brucella abortus</i> - confirmatory methods	3) SOP IDB 7 by ELISA manual and automated	A
		1) SOP IDB 20 by serum agglutination (SAT)	A
		2) SOP IDB 8 by compliment fixation test (CFT) – warm method	A
		3) SOP IDB 64 by complement fixation test (CFT) – cold method	A
Faeces	Rotavirus and coronavirus	DSIB 270 by ELISA kit (IDEXX)	A
Porcine: serum, plasma and paper filter discs	Pseudorabies virus gB (Aujeszky's disease)	IDB 503 by ELISA test kit (IDEXX)	A
Porcine serum and plasma	Pseudorabies virus gp1 (Aujeszky's disease)	IDB 504 by ELISA test kit (IDEXX)	A
Plasma and serum	<i>Brucella abortus/melitensis/suis</i>	IDB 513 using Rose Bengal test by agglutination	A
Plasma/serum/whole blood and ear notch	Bovine Viral Diarrhoea Virus (BVDV)	DSIB 234 IDEXX BVDV Antigen / Serum Plus ELISA kit	A
Serum	Maedi-visna	IDB 508 by AGID (Maeditect)	A
Serum	Caprine arthritis-encephalitis (CAE)	IDB 518 by AGID (IDEXX)	A
Serum (avian)	<i>Salmonella pullorum</i>	IDB 751 by rapid serum agglutination	A



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ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	<u>Serology</u> (cont'd)	Documented in-house methods:	
	Detection of Antibodies to: (cont'd)		
Serum (bovine)	Enzootic Bovine Leucosis	IDB 502 by Agar Diffusion Test (Synbiotics)	A
Serum (equine)	Equine infectious anaemia (EIA)	IDB 526 by AGID (Synbiotics)	A
	Bluetongue (early detection)	IDB 510 using manual ELISA	A
	Bluetongue (competition)	IDB 509 using manual ELISA	A
	Classical swine fever (CSFV)	IDB 505 using manual ELISA	A
Foetal serum	Neospora	DSIB 220 by ELISA kit (IDEXX)	A
	<i>Chlamydophila abortus</i>	DSIB 239 by ELISA kit (Chekit)	A
	Porcine Parvovirus (PPV)	DSIB 241 by ELISA kit (LSI)	A
SERUM, PLASMA and MILK as specified	Bovine Viral Diarrhoea Virus (BVDV) and Border Disease Virus	DSIB 176 by ELISA kit (LSI p80)	A
Serum, Plasma, Milk	Neospora	DSIB 185 by ELISA kit (LSI)	A
Milk	Bovine Viral Diarrhoea Virus (BVDV)	DSIB 257 by ELISA kit (Svanova)	A
	Bovine Parainfluenza Virus Type 3 (PIV3)	DSIB 257 by ELISA kit (Svanova)	A
	Bovine Respiratory Syncytial Virus (BRSV)	DSIB 257 by ELISA kit (Svanova)	A
	Infectious Bovine Rhinotracheitis (IBR)	DSIB 257 by ELISA kit (Svanova)	A
	Infectious Bovine Rhinotracheitis (IBR) gE Antibody	DSIB 242 by ELISA kit (IDEXX)	A
	Johne's Disease (MAP)	DSIB 907 by ELISA kit (IDEXX)	A
	<i>Fasciola hepatica</i>	DSIB 272 by ELISA kit (IDEXX)	A
	<i>Leptospira hardjo</i>	DSIB 274 by ELISA	A



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WATER, potable	<u>Microbiology Tests</u>	Documented in-house procedures based on The Microbiology of Drinking Water (MoDW)	
	Enumeration of:		
	Coliforms and <i>Escherichia coli</i>		
	Enterococci	FMU 17 MDW (2012) Part 5A by membrane filtration	F
	Aerobic Colony Counts at 22°C and 37°C	FMU 17 MDW (2012) Part 7A by pour plate	F
Seawater	<u>Microscopy</u>	MARECOL 10 by microscopic examination using Utermohl chambers	B
	Identification and enumeration of toxin producing Phytoplankton		
END			



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Table 1:

Residues and Contaminants determined using Method PRL 166

4,4-Methoxychlor	HCB	Propetamphos
Aldrin	Heptachlor	Pyrazophos
Azinphos ethyl	Lambda Cyhalothrin	Quintozene
Bifenthrin	Malathion	Resmethrin
Bromophos ethyl	Methacriphos	Tecnazene
Bromophos methyl	Methidathion	Tetrachlorvinphos
Carbophenothion	Mevinphos	Tetramethrin
Chlorfenvinphos	Nitrofen	Triazophos
Chlorobenzilate	Oxychlorthane	Vinclozolin
Chlorpyrifos methyl	PCB 101	a Chlordane
Coumaphos	PCB 118	a Endosulphan
Cyfluthrin	PCB 138	a HCH
Cypermethrin	PCB 153	b Endosulphan
Deltamethrin	PCB 180	b HCH
Diazinon	PCB 28	cis Heptachlor Epoxide
Dichlorvos	PCB 52	g Chlordane
Dieldrin	Paraoxon methyl	g HCH
Endosulphan Sulphate	Parathion	op DDT
Endrin	Parathion methyl	pp DDE
Fenchlorphos	Pentachloroaniline	pp DDT
Fenitrothion	Permethrin	pp TDE
Fenthion	Pirimiphos methyl	Trans Heptachlor Epoxide
Fenvalerate	Profenofos	
END		