Schedule of Accreditation

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Agri-Food and Biosciences Institute (AFBI)

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Veterinary Sciences Division Stoney Road Stormont Belfast BT4 3SD	**Local contact** Helen Shields Tel: +44 (0)28 90 525644 E-Mail: Helen.Shields@afbini.gov.uk Website: www.afbini.gov.uk	Chemistry Microbiology Serology Virology	A
Address Marine Ecology Section Agriculture, Food and Environment Sciences Division Newforge Lane Belfast BT9 5PX	**Local contact** Helen Shields Tel: +44 (0)28 90 525644 E-Mail: Helen.Shields@afbini.gov.uk Website: www.afbini.gov.uk	Seawater analysis	B
Address Analytic Services Laboratory Hillsborough Large Park Hillsborough County Down BT26 6DR	**Local contact** Helen Shields Tel: +44 (0)28 90 525644 E-Mail: Helen.Shields@afbini.gov.uk Website: www.afbini.gov.uk	Chemistry	C

Location details		Activity	Location code
Address Plant Health Newforge Lane Belfast BT9 5PX	**Local contact** Helen Shields Tel: +44 (0)28 90 525644 E-Mail: Helen.Shields@afbini.gov.uk Website: www.afbini.gov.uk	Plant Health: Molecular Nematology	D
Address Food Microbiology Unit Bacteriology Branch Veterinary Surveillance Division Newforge Lane Belfast BT9 5PX	**Local contact** Helen Shields Tel: +44 (0)28 90 525644 E-Mail: Helen.Shields@afbini.gov.uk Website: www.afbini.gov.uk	Microbiology	E

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	Chemistry *indicates analysis performed under Food Standards Agency designation as an Official Laboratory (monitoring) and ** National Reference Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented in-house methods:	
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)	Method ASL 11 using Parr Bomb Calorimetry	C
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)		
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

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)	Chemistry (cont'd)	Documented in-house methods:	
Animal Feeding Stuffs and By-products	Crude Fibre	Method ASL 10 by Fibre Analyzer (filer bag technique)	C
Animal feedstuffs, animal tissues, integument, body fluids,excretions of food producing and eggs	Screening, quantification and confirmation of residues of licensed veterinary medicinal drugs and unauthorised substances	Methods developed and validated following the Flexible Scope procedure: CSD 380 by GC/MS/MS and LC-MS/MS	A
Animal feedstuffs, animal products, Fats and Oils, Meat and Meat products, *Shellfish, Fish and Fish products (excluding offal)	*Screening, quantification and confirmation of residues of pesticides, insecticides, disinfectants and organic contaminants		
Raw and cooked whole shellfish and shellfish components	* /** Screening, quantification and confirmation of residues of marine biotoxins.		
Animal Tissue, *Milk and *shellfish	*Identification and quantification of element concentrations	ICP-MS	
Meat and Bonemeal (MBM) and Tallow, Rendered Oils	Glyceroltriheptanoate (GTH)	PRL 172 using GC-MS	A
Meat, seafood and animal fat, *cheese, *milk	*Quarternary ammonium compounds (QACs) Benzalkonium Chlorides: Benzyldimethyldecyl ammonium chloride (BAC10) Benzyldimethyldodecyl ammonium chloride (BAC12) Benzyldimethyl-tetradecyl ammonium chloride (BAC14) Benzyldimethylhexadecyl ammonium chloride (BAC16) Didecyl dimethyl ammonium chloride (DDAC)	PRL 192 using LC-MS/MS with QuEChERS extraction	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Animal Feedingstuffs	Determination of Veterinary drugs encompassing: Amprolium Avilamycin Carbadox Chloramphenicol Chlortetracycline Clopidol Decoquinate Diclazuril Dimetridazole Emamectin Ethopabate Fenbendazole Florfenicol Flubendazole Halofuginone Ipronidazole Ivermectin Lasalocid Lincomycin Maduramicin Metronidazole Monensin Narasin Nicarbazin	CSD 386 by LC-MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Animal Feedingstuffs	Determination of Veterinary drugs encompassing (Cont'd) Olaquindox Oxytetracycline Penicillin V Robenidine Ronidazole Salinomycin Semduramicin Spiramycin Sulphadiazine Sulphamethazine Teflubenzuron Tiamulin Tilmicosin Trimethoprim Tylosin Tylvalosin Valnemulin	CSD 386 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

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)	Chemistry (cont'd)	Documented in-house methods:	
Avian muscle	Chloramphenicol	CSD 202 by SPR Biosensor	A
Avian, bovine, ovine and porcine liver and egg	Coccidiostats encompassing: Clazuril Decoquinate Diclazuril Halofuginone Lasalocid Maduramicin Monensin Narasin Nicarbazin Robenidine Salinomycin Semduramicin	CSD 382 by LC-MS/MS	A
Bovine, porcine, and ovine kidney; bovine, avian and porcine muscle and *bovine milk and avian eggs	*Aminoglycosides, encompassing: Apramycin Dihydrostreptomycin Gentamycin C1, C1a, C2/C2a Kanamycin Neomycin Paromomycin Spectinomycin Streptomycin	CSD 348 by LC-MS/MS	A
Bovine, ovine and porcine kidney	Tranquillisers: Acepromazine Azaperone Azaperol Carazolol Chlorpromazine Haloperidol Propionylpromazine Xylazine	CSD 390 by LC-MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Bovine and porcine kidney, ovine kidney, avian liver and serum, turkey muscle, *milk, egg and feeding stuffs	*Nitromidazoles, encompassing: Dimetridazole Hydroxydimetridazole Hydroxyipronidazole Ipronidazole Metronidazole Ronidazole	CSD 337 by LC-MS/MS	A
Avian, bovine, ovine and porcine liver, bovine muscle and *milk	*Anti-parasitics including: 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 Nitroxynil Oxibendazole Oxibendazole-amino	CSD 384 by LC-MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Avian, bovine, ovine and porcine liver, bovine muscle and *milk (cont'd)	*Anti-parasitics including (cont'd): Oxyclozanide Rafoxanide Thiabendazole Thiabendazole-hydroxy Triclabendazole Triclabendazole-keto Triclabendazole-sulphone Triclabendazole-sulphoxide	CSD 384 by LC-MS/MS	A
Eggs	Fipronil	CSD 384 by LC-MS/MS	A
Avian eggs	Screening, quantification and confirmation of antiparasitic drug residues (See table 4 for analyte list)	CSD 312 by UHPLC-MS/MS	
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, ovine and porcine kidney, *milk	*Screening, quantification and confirmation of antimicrobials (see Table 1 for analyte list	CSD 398 using LC-MS/MS	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
Bovine, ovine and porcine kidney, avian and fish muscle, bovine urine, *milk; egg and honey	*Chloramphenicol	CSD 301 by LC MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, ovine and porcine kidney, avian muscle, *milk and egg	*Sulphonamides, including, but not limited to the following: Sulphadiazine Sulphadoxine Sulphamethazine Sulphathiazole Sulphaquinoxaline Sulphatroxazole Sulphamethoxypyridazine Sulphachloropyridazine	CSD 210 by Thin Layer Chromatography	A
Bovine, ovine and porcine kidney, avian, bovine, ovine and porcine muscle, *milk and avian egg	*Penicillins and Cephalosporins, including: Amoxicillin Ampicillin Cefalexin Cefalonium Cefapirin Cefazolin Cefoperazone Cefquinome Ceftiofur Cloxacillin Dicloxacillin Nafcillin Oxacillin Penicillin G Penicillin V	CSD 344 by LC-MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, ovine and porcine liver and urine; avian liver, bovine retina and animal feeding stuffs	β-Agonist confirmation encompassing: Brombuterol Bromochlorbuterol Cimaterol Cimbuterol Clenbuterol Clenpenterol Hydroxymethylclenbuterol Isoxsuprine Mabuterol Mapenterol Ractopamine Salbutamol Salmeterol Terbutaline Tulobuterol Zilpaterol	CSD 306 by LC MS/MS	A
Bovine, ovine and porcine liver, equine kidney, bovine and equine muscle	Non-Steroidal Anti-Inflammatory drugs encompassing: Carprofen Diclofenac Etodolac Flunixin Ketoprofen Mefenamic acid Meloxicam Naproxen Niflumic acid Phenylbutazone Tolfenamic acid Vedaprofen	CSD 340 by LC-MS/MS	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Milk	Non-Steroidal Anti-Inflammatory drugs encompassing: 4-Aminoantipyrine 4-Formylaminoantipyrine 4-Methylaminoantipyrine 4-Dimethylaminoantipyrine Carprofen Carprofen glucuronide Diclofenac Etodolac Firocoxib Flufenamic acid Flunixin 5-Hydroxyflunixin Ibuprofen Ketoprofen Dihydroketoprofen Mefenamic acid Meloxicam Naproxen Niflumic acid Oxyphenbutazone Phenylbutazone Ramifenazone Tolfenamic acid Vedaprofen	CSD 321 by UHPLC-MS/MS	A
Bovine, ovine, porcine kidney fat and bovine serum	Gestagens, encompassing: Altrenogest Chlormadinone acetate Delmadinone acetate Flurogestone acetate Medroxyprogesterone acetate Megestrol acetate Melengestrol	CSD 326 by LC-MS/MS	A

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

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)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, porcine and ovine kidney; bovine and avian muscle and egg	Antimicrobial substances including, but not limited to the following: 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	CSD 222 by Microbial growth inhibition	A

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)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, porcine and ovine urine	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	CSD 316 by LC-MS/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

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)	Chemistry (cont'd)	Documented in-house methods:	
Egg	Chloramphenicol	CSD 204 by SPR Biosensor	A
Fish muscle	Triphenylmethane phenothiazine & phenoxazine / 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 Blue BO	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS	Chemistry (cont'd)	Documented in-house methods:	
Milk	*Chloramphenicol	CSD 201 by SPR Biosensor	A
Pig Feed	Methyltestosterone	CSD 385 by LC-MS/MS	A
Plasma	Phenylbutazone	CSD 392 by Supported Liquid Extraction and determination by LC-MS-MS	A
Porcine liver	Quinoxaline-2-carboxylic acid, 3 Methyl-quinoxaline-2-carboxylic acid confirmation	CSD 304 by LC MS/MS	A
Mussels, native and pacific oysters, Manila clams, cooked mussel, whole queen scallop, king scallop (whole, adductor & adductor/roe)	*/**Determination of Lipophilic (DSP) Toxins	CSD 379 by LC-MS/MS	A
King scallops, mussels, pacific and native oysters	*/**Quantitative analysis of Paralytic toxins	CSD 409 by HPLC	A
Shellfish	*/**Domoic acid confirmatory	CSD 406 by HPLC-UV	A
Shellfish	*/**PSP screen	CSD 408 by HPLC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemistry (cont'd)	Documented in-house methods:	
Animal Products, Fats and Oils, *Butter, *Cheese, Meat and Meat Products, Fish and Fish Products (excluding offal)	*Pesticides and organic contaminants: See Table 2 for details of residues and contaminants	PRL 166 using GC-MS/MS	A
Meat and Meat Products, Fish and Fish Products, *Milk	*Screening, quantification and confirmation of pesticides and organic contaminants - (see Table 3 for analyte list)	CSD 603 using QuEChERS extraction and GC-MS/MS	A
Red Meat, *Mik	Highly polar pesticides 3-Methylphosphinicopropionic acid (MPPA) Aminomethyl phosphonic acid (AMPA) Glufosinate Glufosinate-N-Acetyl (NAG) Glyphosate	CSD607 using LC-MS/MS	A
ANIMAL TISSUES & FLUIDS - AS SPECIFIED	Histopathology	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	Detection of abnormal prion protein PrP^{Sc}	TSE 25 confirmation test by Biorad Western Blot (kit	A
		TSE 071, by Idexx HerdCheck BSE-Scrapie Antigen EIA (short protocol)	A
MILK AND DAIRY PRODUCTS	Chemical Tests	Documented In-House Methods	
Liquid milks and creams of bovine origin	Inhibitory substances (qualitative)	FMU 16 based on EEC Directive 91/180/EEC (1991)	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDINGSTUFFS AND COMPOSTS	Microbiological Tests Detection:	Documented In-House Methods	
	Salmonella spp	FMU 10 in accordance with the Animal By-Products (Enforcement) Regulations (Northern Ireland) 2011 based on BS EN ISO 6579-1:2017 + A2:2020 (Confirmation by biochemical profile and serology)	E (A)
	Enumeration:		
	Clostridium perfringens	FMU 22 in accordance with the Animal By-Products (Enforcement) Regulation (Northern Ireland) 2011 based on BS EN ISO 15213-2:2023 with in house confirmation by lactose gelatin media and motility nitrate medium	E
	Enterobacteriaceae	FMU 20 in accordance with the Animal By-Products (Enforcement) Regulation (Northern Ireland) 2011 based on BS EN ISO 21528-2:2017	E
	Campylobacter spp (including identification)	FMU 25 based on BS EN ISO 10272-1:2017+A1:2023 with subsequent biochemical confirmation and identification to species level	E
Raw Meats	*Campylobacter* spp (including identification)	FMU 25 in-house method with subsequent biochemical confirmation and identification to species level	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Microbiological Tests (Cont'd)	Documented In-House Methods	
FOOD AND FOOD PRODUCTS (general unless specified)	Detection:		
	Campylobacter spp (including identification)	FMU 25 based on BS EN ISO 10272-1:2017+A1:2023 with subsequent biochemical confirmation and identification to species level	E
Raw Meats	*Campylobacter* spp (including identification)	FMU 25 in-house method with subsequent biochemical confirmation and identification to species level	E
BEEF (raw trim and mince)	Presumptive *Escherichia coli* O157 (including H7)	FMU 27 based on Health Products and Food Branch, Health Canada MFLP-82:2014 using Merck Singlepath *E. coli* O157 kit	E
	Listeria monocytogenes and species (including identification)	FMU 13 based on BS EN ISO 11290-1:2017 with identification using API Listeria	E
	Salmonella spp	FMU 10 based on BS EN ISO 6579-1:2017 + A2:2020	E
		(Confirmation by biochemical profile and serology)	(A)
FOOD AND FOOD PRODUCTS (general unless specified)	Enumeration:		
	Aerobic Colony Count at 30°C	1) FMU 12 based on BS EN ISO 4833-1:2013+Amd 1:2022	E
		2) FMU 12 based on BS EN ISO 4833-2:2013 + Amd 1:2022	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Microbiological Tests (Cont'd)	Documented In-House Methods	
FOOD AND FOOD PRODUCTS (general unless specified) (Con't)	Enumeration: (Cont'd)		
Raw Meats	*Campylobacter* spp (including identification)	FMU 25 based on BS EN ISO 10272-2:2017 +A1:2023 with subsequent biochemical confirmation and identification to species level	E
	Coagulase-positive Staphylococci including *Staphylococcus aureus*	FMU 15 based on BS EN ISO 6888-1:2021 +A1:2023 confirmed by tube coagulase reaction	E
	Enterobacteriaceae at 37°C	FMU 20 based on BS EN ISO 21528-2: 2017	E
MILK AND DAIRY PRODUCTS (Cont'd)	Detection:		
Liquid milks and creams of bovine origin	*Listeria monocytogenes* and species (including identification)	FMU 13 based on BS EN ISO 11290-1:2017 with identification using API Listeria	E
	Salmonella spp	FMU 10 based on BS EN ISO 6579-1:2017 +A2:2020 (Confirmation by biochemical profile and serology)	E (A)
Liquid milks and creams of bovine origin	Enumeration:		
	Coliforms at 30°C	FMU 18 based on BS ISO 4832: 2006	E
	Enterobacteriaceae at 30°C	FMU 20 based on BS ISO 21528-2:2017	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SWABS HYGIENE SWABS	<u>Microbiological Tests</u> <u>Detection:</u>	Documented In-House Methods	
	Salmonella spp	FMU 10 based on BS EN ISO 6579-1:2017 + A2:2020 (Confirmation by biochemical profile and serology)	E (A)
ENVIRONMENTAL SWABS (Including Boot swabs)	Enumeration:		
	Aerobic Colony Count at 30°C	FMU 12 based on BS EN ISO 4833-1:2013+A1:2022	E
	Campylobacter spp (including identification)	FMU 25 based on BS EN ISO 10272-2:2017 +A1:2023 with subsequent biochemical confirmation and identification to species level	E
	Coagulase-positive Staphylococci including *Staphylococcus aureus*	FMU 15 based on BS EN ISO 6888-1:2021 +A1: 2023 confirmed by tube coagulase reaction	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED	Microbiological Tests (cont'd)	Documented In-House Methods	
Animal Tissues	Isolation of *Mycobacterium bovis*	BAC 403 by bacterial isolation and culture including BAC410 MGIT, BAC 405 ZN stain	A
Dust (house), faeces, swabs, litter, meconium, viscera,	Detection of *Salmonella* spp (motile)	BAC 262 and SOP BAC 264 documented in house method based on BS EN ISO 6579-1:2017 Amd 1:2020 (employing MSRV) for matrices as required for the purposes of testing in accordance with Control of Salmonella in Poultry Orders*: CSPO 2007 (2008 NI) CSBO 2009 (2009 NI) CSTO 2009 (2010 NI) Confirmation using slide serology and biochemical tests (BAC270)	A
Cultures, feed dust, pig samples	Detection of *Salmonella* spp (motile)	BAC 262 and SOP BAC 264 documented in house method based on BS EN ISO 6579-1:2017 Amd 1:2020 (employing MSRV) Confirmation using slide serology and biochemical tests (BAC270)	A
Salmonella cultures	Antimicrobial Resistance testing of *Salmonella* spp	BAC 271	A
Salmonella cultures	Serotyping of *Salmonella* cultures	BAC 268 (Conforms to BS EN ISO 6579-1:2017+ A1:2020)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED	Microbiological Tests (cont'd)	Documented In-House Methods	
Porcine, Bovine, Broiler and Turkey Faeces, caecae and fresh retail meat	Isolation and identification of *E. coli* producing Extended Spectrum β-lactamases (ESBL), AmpC β-lactamases (AmpC) and Carbapenemases (CP)	BAC395 AMR Isolation & Identification based on EURL-AR protocols in line with EU/2017/625, followed by BAC396 Minimum Inhibitory Concentration (MIC) with biochemical identification (BAC270)	A
Bacterial isolates (*Salmonella* spp*, E. coli*, *Campylobacter* spp)	Antimicrobial Resistance Testing	BAC396 for Minimum Inhibitory Concentration (MIC) determination using Sensititre™ Panels by the Sensititre AutoInoculator /AIM ®, read either manually or using the Vizionread plate reader and SWIN Software System	A
ANIMAL TISSUES & FLUIDS - AS SPECIFIED	Molecular Biology		
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
Animal tissues, fish and shellfish tissues blood, serum, plasma, allontoic 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 homogenates, faeces, swabs and allantoic fluid	Avian Influenza virus matrix gene	VMDL 96 using RT-PCR (Based on Nagy et al 2010 / 2020)	A
Avian tissue homogenates, faeces, swabs and allantoic fluid	Identification of avian influenza H5, H7, N1 subtypes	VMDL 66 using RT-PCR	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	Molecular Biology (cont'd)	Documented In-house methods:	
Avian tissue homogenates, faeces, swabs and allantoic fluid	Avian Orthoavulavirus serotype 1 (AVOAV-1) RNA	VMDL 63 using RT-PCR	A
Bovine, Ovine EDTA blood, Tissue homogenates	Bluetongue Virus (BTV) RNA	VMDL 72 using RT-PCR	A
Isolate DNA	Identification of Mycobacterium bovis	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 real timeRT-PCR	A
Fish tissues and serum	Gyrodactylus species salaris and thymalli DNA	FDU 749 using real timeRT-PCR	A
Fish tissues, serum (individual and pooled) and cell cultures	Salmonid alphavirus RNA	FDU 727 using real timeRT-PCR	A
Fish tissues, serum (individual and pooled) and cell cultures	Spring Viraemia of Carp Virus (SVCV) RNA	FDU 783 using real time RT-PCR	A
Shellfish tissue	Bonamia spp DNA	FDU 739 using real time RT-PCR	A
Serum (individual and pooled), milk and tissue	Detection of Bovine Viral Diarrhoea virus (BVDV)	DSIB 184 using RT-PCR using Virotype kit version 2.0	A
Faeces	Johnes Disease (MAP)	DSIB 183 using RT-PCR	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	Molecular Biology (cont'd)	Documented In-house methods:	
Meat products, carcass swabs, environmental sponge swabs	Detection and isolation of Shigatoxin-Producing *E. coli* (STEC serogroups: O157, O26, O45, O103, O111, O121, O145)	In-house method FMU 28 using Bio-Rad IQ Check® STEC VirX and STEC SerOII PCR detection kits for target genes stx1 / stx2, eae; IMS; culture on modified Rainbow agar and confirmation using latex agglutination and PCR using the Bio-Rad CFX96 thermal cycler. Method is based on USDA-STEC guide MLG5C.03 procedures and algorithms for O157:H7 and other Shigatoxin-producing *E. coli* serotypes.	E
Hive scrapings	Detection of *Aethina tumida* DNA (Small Hive Beetle) (confirmatory test)	SOPs PPMB 45, PPMB 8 & PPMB 20 using the MagCore magnetic bead system HF16 or 48 with the associated MagCore DNA Plant Kit. Real time PCR using the Qiagen QuantiNova Probe PCR kit amplified by the Roche LightCycler 96	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANTS and PLANT MATERIALS	Molecular Biology (cont'd)	Documented In-house methods:	
Leaf material	Detection of Tomato Brown Rugose Fruit Virus RNA (ToBRFV)	SOPs PPMB 46, PPMB 8 & PPMB 20 and EPPO bulletin PM 7/146 using the MagCore magnetic bead system HF16 or 48 with the associated MagCore DNA Plant Kit. Real time PCR using the Qiagen QuantiNova Probe PCR kit amplified by the Roche LightCycler 96	D
Leaf material	Detection of *Xylella fastidiosa* DNA	SOPs PPMB 41, PPMB 8 & PPMB 20 and EPPO bulletin PM 7/24 Nucleic acid extraction using the MagCore magnetic bead system HF16 or 48 with the associated MagCore DNA Plant Kit Real time PCR using the Qiagen QuantiNova Probe PCR kit amplified by the Roche LightCycler 96	D
Leaf material	Detection of *Phytophthora ramorum* DNA	SOPs PPMB 42, PPMB 8 & PPMB 20 and EPPO bulletin PM 7/66. Nucleic acid extraction using the MagCore magnetic bead system HF16 or 48 with the associated MagCore DNA Plant Kit. Real time PCR using the Qiagen QuantiNova Probe PCR kit amplified by the Roche LightCycler 96	D
Potato cysts derived from soil and potatoes	Detection of *Globodera pallida* DNA (confirmatory test)	SOPs PPMB 44, PPMB 8 & PPMB 20 using the MagCore magnetic bead system HF16 or 48 with the associated MagCore DNA Plant Kit. Real time PCR using the Qiagen QuantiNova Probe PCR kit amplified by the Roche LightCycler 96	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANT MATERIALS AND SOILS	Plant Health Diagnostic Tests	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
INSECTS (LARVAE and BEETLES)	Animal and Disease Identification Tests		
Adult beetles and larvae	Morphological identification of *Agrilus planipennis* (Emerald Ash Borer)	EPM 24 by microscopy.	D
Bee Larvae (*Apis mellifera*)	Detection and identification of *Melissococcus plutonius* (European Foulbrood) and *Paenibacillus larvae* (American Foulbrood)	EPM 4 by microscopy using Nigrosin staining technique	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED	Serology	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
	Detection of Antibodies to:		
Whole blood, clotted blood, serum and plasma	Veterinary Pathogens	Methods developed and validated following the Flexible Scope Procedure:	A
		1) IDB 1004 using agar geldiffusion under flexible scope	A
		2) IDB 1004 by agglutination with commercially available reagents under flexible scope	A
		3) IDB 1004 by Haemagglutination inhibition under flexible scope	A
		4) IDB 1004 by compliment fixation under flexible scope	A
Whole, clotted and dried blood, serum, plasma, milk, and meat juices		5) IDB 1004 by manual and automated ELISA processing using test kit under flexible scope	A
Heparin whole blood	Interferon-gamma	BAC 763 antigen stimulation of blood and BAC 764 by ELISA (Prionics)	A
	Detection of Antibodies to:		
Serum	Avian Influenza (AI) H5 and H7	IDB 760 by Haemaglutination Inhibition (HI) test	A
Bovine serum and plasma	Enzootic bovine leucosis (EBL)	IDB 501 by ELISA test kit (IDEXX blocking)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	Serology (cont'd) Detection of Antibodies to: (cont'd)	Documented in-house methods:	
Bovine serum	*Brucella abortus* - screening methods	1) SOP IDB 66, 22 by ELISA	A
Bovine Milk (individual or bulk)		2) SOP IDB 7 by IDEXX iELISA antibody kit (manual)	A
Bovine serum	*Brucella abortus* - confirmatory methods	1) SOP IDB 20 by microtitre 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	African Swine Fever	IDB 529 by IDvet ID Screen® Indirect ELISA	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 gE (Aujeszky's disease)	IDB 504 by ELISA test kit (IDEXX)	A
Plasma and serum	Brucella abortus/melintensis/suis	IDB 513 using Brucella 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 using in-house method based on Maeditect 1000 AGID antibody kit	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL TISSUES & FLUIDS - AS SPECIFIED (cont'd)	Serology (cont'd) Detection of Antibodies to: (cont'd)	Documented in-house methods:	
Serum (equine)	Equine infectious anaemia (EIA)	IDB 511 by AGID (VMRD)	A
Serum (bovine, ovine, caprine, buffalo, deer)	Bluetongue (BTV) (competition)	IDB 509 using manual ELISA (IDVET ID screen)	A
Serum (Porcine)	Classical swine fever (CSFV)	IDB 505 using manual ELISA (PrioCHECK 2.0)	A
Serum	Neospora	DSIB 220 by ELISA kit (IDEXX)	A
Serum, Plasma, Milk	Bovine Viral Diarrhoea Virus (BVDV)	DSIB 257 by ELISA kit (Svanova)	A
Serum, Plasma, Milk	Infectious Bovine Rhinotracheitis (IBR) gE Antibody	DSIB 242 by ELISA kit (IDEXX)	A
Serum	Infectious Bovine Rhinotracheitis	DSIB 1453 by ELISA (ID Vet)	A
Serum, Plasma, Milk	Johne's Disease (MAP)	DSIB 907 by ELISA kit (IDEXX)	A
Serum, Plasma, Milk	*Fasciola hepatica*	DSIB 272 by ELISA kit (IDEXX)	A
Bovine Serum and Milk	*Leptospira hardjo*	DSIB 274 by ELISA (Linnodee)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	Microbiology Tests		
Recreational and Surface Waters	Enumeration of:	Documented in-house procedures	
Recreational and Surface Waters (Marine and Freshwater)	*Escherichia coli*	FHU 53 based on Microbiology of Recreational and Environmental Waters (2016) Part 3	A
	Enterococci	FHU 53 based on BS EN ISO 7899-2:2000 by membrane filtration	A
	Microscopy	*indicates examination performed under Food Standards Agency designation as an Official Laboratory in accordance with assimilated European law no. 2017/625	
Seawater	Identification and enumeration of toxin producing Phytoplankton	*MARECOL 10 by microscopic examination using Utermohl chambers	B
END			

Table 1:

Antimicrobials determined using method CSD 398		
Amphenicol:	**Pleuromutilin:**	**Sulphonamide (cont'd):**
Thiamphenicol	Tiamulin	Sulphamethizole
	Valnemulin	Sulphamethoxazole
Lincosamide:		Sulphamethoxypyridazine
Lincomycin	**Pyrimidine:**	Sulphamoxole
Pirlimycin	Trimethoprim	Sulphapyridine
		Sulphaquinoxaline
Macrolide:	**Quinolone:**	Sulphathiazole
3-O-Acetyltylosin	Ciprofloxacin	Sulphatroxazole
Desmycosin (Tylosin B)	Danofloxacin	Sulphisomidine
ErythromycinA	Difloxacin	
Gamithromycin	Enrofloxacin	**Tetracycline:**
Josamycin	Flumequine	Chlortetracycline
Spiramycin	Marbofloxacin	Doxycycline
Tildipirosin	Nalidixic acid	Oxytetracycline
Tilmicosin	Norfloxacin	Tetracycline
Tulathromycin	Ofloxacin	4-Epichlortetracycline
Tylosin A	Orbifloxacin	4-Epioxytetracycline
Tylvalosin	Oxolinic acid	4-Epitetracycline
	Pefloxacin	
Penicillin/Cephalosporin:	Sarafloxacin	
Amoxicillin		
Ampicillin	**Rifamycin:**	
Cefacetrile	Rifampicin	
Cefalexin		
Cefalonium	**Sulphonamide (Sulfonamide):**	
Cefapirin	Dapsone	
Cefazolin	Sulphabenzamide	
Cefoperazone	Sulphacetamide	
Cefquinome	Sulphachloropyridazine	
Ceftiofur	Sulphadiazine	
Cloxacillin	Sulphadimethoxine	
Dicloxacillin	Sulphadoxine	
Nafcillin	Sulphaguanidine	
Oxacillin	Sulphamerazine	
PenG	Sulphameter	
PenV	Sulphamethazine	
END		

Table 2:

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	Oxychlordane	Vinclozolin
Chlorpyriphos 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		

Table 3:

Pesticide residues and Contaminants determined using method CSD 603		
4,4-Methoxychlor	HCB	Quintozene
Aldrin	Heptachlor	Resmethrin
Azinphos ethyl	Indoxacarb	Tecnazene
Bifenthrin	Lambda Cyhalothrin	Tetrachlorvinphos
Bromophos ethyl	Malathion	Tetramethrin
Bromophos methyl	Methacriphos	Triazophos
Carbophenothion	Methidathion	Vinclozolin
Chlorfenvinphos	Mevinphos	a Chlordane
Chlorobenzilate	Nitrofen	a Endosulphan
Chlorpyriphos	Oxychlordane	a HCH
Chlorpyriphos methyl	PCB 101	b Endosulphan
Coumaphos	PCB 118	b HCH
Cyfluthrin	PCB 138	cis Heptachlor Epoxide
Cypermethrin	PCB 153	g Chlordane
Deltamethrin	PCB 180	g HCH
Diazinon	PCB 28	op DDT
Dieldrin	Paraoxon methyl	pp DDE
Endosulphan Sulphate	Parathion	pp DDT
Endrin	Parathion methyl	pp TDE
Famoxadone	Pendimethalin	trans Heptachlor Epoxide
Fenchlorphos	Pentachloroaniline	
Fenitrothion	Permethrin	
Fenvalerate	Pirimiphos methyl	
Fipronil	Profenofos	
Fipronil Sulphone	Propetamphos	
Fluvalinate	Pyrazophos	
END		

Table 4:

Antiparastic drug residues using method CSD 312		
Screening	**Screening**	**Confirmatory**
Abamectin (B1a)	Imidacloprid	Abamectin (B1a)
Albendazole	Ivermectin (B1a)	Emamectin (B1a)
Albendazole-2-amino-sulfone	Levamisole	Fenbendazole
Albendazole sulfone	Mebendazole	Fenbendazole sulfone
Albendazole sulfoxide	Amino-mebendazole	Fenbendazole sulfoxide
Cambendazole	Hydroxy-mebendazole	Fipronil
Clorsulon	Monepantel	Fipronil sulfone
Closantel	Monepantel sulfone	Flubendazole
Coumaphos	Morantel	Fluralaner
Coumaphos-oxon	Moxidectin	Phoxim
Derquantel	Niclosamide	
Dicyclanil	Nitroxinil	
Doramectin	Oxibendazole	
Emamectin (B1a)	Amino-oxibendazole	
Eprinomectin (B1a)	Oxyclozanide	
Febantel	Parbendazole	
Fenbendazole	Phoxim	
Fenbendazole sulfone	Praziquantel	
Fenbendazole sulfoxide	Rafoxanide	
Fipronil	Thiabendazole	
Fipronil desulfinyl	Hydroxy-thiabendazole	
Fipronil sulfone	Triclabendazole	
Flubendazole	Keto-triclabendazole	
Amino-flubendazole	Triclabendazole sulfone	
Hydroxy-flubendazole	Triclabendazole sulfoxide	
Fluralaner		
END		