


Schedule of Accreditation

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United Kingdom Accreditation Service

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 <p>2632</p> <p>Accredited to ISO/IEC 17025:2005</p>	Agri-Food Biosciences Institute (AFBI) Veterinary Sciences Division	
	Issue No: 020	Issue date: 19 April 2012
	Veterinary Science Division Stoney Road Stormont Belfast Northern Ireland BT4 3SD	Contact: Cynthia McVeigh Tel: +44 (0)28 90 525628 Fax: +44(0)28 90 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk
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
<p>Address Veterinary Sciences Division Stoney Road Stormont Belfast BT4 3SD</p> <p>Local contact Cynthia McVeigh Tel: +44 (0)28 90 525628 Fax: +44(0)28 90 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>	Chemistry Microbiological Serology Virology Immunology	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)28 90 525628 Fax: +44(0)28 90 525773 E-Mail: Cynthia.McVeigh@afbini.gov.uk Website: www.afbini.gov.uk</p>	Seawater analysis	B



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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	Chemistry	Documented in-house methods:	
Animal feedstuffs, animal tissues, integument, body fluids and excretions of food producing animals	Identification and quantification of residues of licensed medicinal drugs and unauthorised substances	CSD 380 using GC/MS/MS and LC-MS/MS according to the requirements of Commission Decision 2002/657/EC using Flexible scope	A
Plasma/Serum	Oestradiol	CSD 110 by DELFIA	
	Testosterone	CSD 104 by DELFIA	A
	Progesterone	CSD 102 by DELFIA	A
Bovine, ovine, porcine kidney, fat and bovine serum	Gestagens, encompassing: altrenogest chlormadinone acetate delmadinone acetate flurogestone acetate medroxyprogesterone acetate megestrol acetate melengestrol acetate	CSD 326 by LC-MS/MS	A
Bovine and ovine urine	α - and β -Nortestosterone	CSD 331 by GC-MS/MS	A
Bovine Liver	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



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd) Bovine, porcine and ovine urine	Chemistry (cont'd) Steroids encompassing: ADD α -boldenone β -boldenone CLAD dexamethasone dienestrol diethylstilboestrol ethisterone fluoxymesterone hexestrol hydroxystanozolol medroxyprogesterone methenolone methylboldenone methyltestosterone norethandrolone norgestrel 17 α & 17 β -19-nortestosterone progesterone stanozolol taleranol testosterone α -trenbolone zeranol	Documented in-house methods: CSD 316 by LC-MS/MS	A
Bovine, ovine and porcine liver	Corticosteroids, encompassing: beclomethasone betamethasone cortisol cortisone dexamethasone flucinolone acetonide flumethasone flunisolide fluometholone methylprednisolone prednisolone prednisone triamcinolone acetonide	CSD 335 by LC-MS/MS	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	Chemistry (cont'd)	Documented in-house methods:	
Bovine urine	Zeranol and the <i>Fusarium spp</i> toxins, encompassing: zeranol talernol α -zearalenol β -zearalenol zearalenone	CSD 324 by LC-MS/MS	A
Bovine, ovine and porcine urine	thyrostats dimethylthiouracil ethylthiouracil mercaptobenzimidazole methimazole (tapazole) methylthiouracil phenylthiouracil propylthiouracil thiouracil	CSD 333 by LC-MS/MS	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
Poultry Liver and Egg, Avian muscle	Nicarbazin	CSD 302 by LC-MS/MS	A
Poultry Liver and Egg	Nicarbazin	CSD 101 by SPR Biosensor	A
Milk	Chloramphenicol	CSD 201 by SPR Biosensor	A
Avian muscle	Chloramphenicol	CSD 202 by SPR Biosensor	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, ovine and porcine kidney	Chloramphenicol	CSD 203 by SPR Biosensor	A
Egg	Chloramphenicol	CSD 204 by SPR Biosensor	A
Bovine urine	Chloramphenicol	CSD 205 by SPR Biosensor	A
Bovine & porcine kidney and bovine muscle	Antimicrobial substances including, but not limited to the following: Doxycycline Chlortetracycline Tetracycline Oxytetracycline, Flumequine Flumequine Sarafloxacin Norfloxacin Enrofloxacin Marbofloxacin Danofloxacin Difloxacin Ciprofloxacin Tulathromycin, Tilmicosin Erythromycin Lincomycin Pirlimycin Pirlimycin Amoxicillin Ampicillin Nafcillin Oxacillin Penicillin G Cephalexin Cefquinone Ceftiofur Ceftiofur Apramycin Kanamycin Neomycin	CSD 222 by Microbial growth inhibition	A
Porcine bile	Sulphonamides	CSD 219 by Immunobiosensor	A



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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 210-213 by Thin Layer Chromatography	A
Porcine Bile	Sulphamethazine	CSD 215 by ELISA	A
Porcine Bile	Sulphadiazine	CSD 216 by ELISA	A
Bovine, ovine and porcine kidney, avian liver, avian serum, milk and egg	Nitromidazoles screen including, but not restricted to the following: dimetridazole ronidazole ipronidazole metronidazole hydroxymetronidazole hydroxydimetridazole hydroxyipronidazole carnidazole and ornidazole	CSD 113 by SPR Biosensor	A
Milk	Dapsone	CSD 131 by Immunobiosensor	A
Avian & bovine muscle and porcine kidney	Quinolones, including: Ciprofloxacin Danofloxacin Difloxacin Enrofloxacin Flumequine Marbofloxacin Oxolinic acid	CSD 360 by LC-MSMS	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	Chemistry (cont'd)	Documented in-house methods:	
Bovine and porcine kidney	Aminoglycosides, encompassing: spectinomycin streptomycin dihydrostreptomycin kanamycin paromomycin apramycin neomycin gentamycin C1, C1a, C2/C2a	CSD 348 by LC-MS/MS	A
Bovine & porcine kidney, bovine muscle and milk	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
Bovine, ovine & porcine kidney, Bovine, porcine, avian & fish muscle, eggs and milk	Tetracyclines, including: chlortetracycline oxytetracycline doxycycline tetracycline	CSD 375 by LC-MS/MS	A
Bovine, ovine and porcine kidney, avian and fish muscle, bovine urine and milk; egg	Chloramphenicol	CSD 301 by LC-MS/MS	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	Chemistry (cont'd)	Documented in-house methods:	
Bovine, ovine and porcine kidney, avian muscle and shrimp	Nitrofurantoin metabolites, encompassing: AMOZ AOZ AHD SEM	CSD 303 by LC-MS/MS	A
Animal feedingstuffs	Nitrofurantoin parent drugs, encompassing: furazolidone furaltidone nitrofurantoin nitrofurazone nifursol	CSD 313 by LC-MS/MS	A
Bovine and porcine kidney, Ovine kidney, avian liver and serum, turkey muscle, milk, egg and feedingstuffs	Nitromidazoles, encompassing: dimetridazole ipronidazole metronidazole hydroxyipronidazole hydroxydimetridazole ronidazole	CSD 337 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
Bovine, ovine, porcine kidney, Avian liver and milk, Avian, bovine and porcine muscle	Sulphonamides, encompassing: dapsone sulphabenzamide sulphacetamide sulphachloropyridazine sulphadiazine sulphadimethoxine sulphadimidine sulphadoxine sulphaguanidine sulphamerazine sulphameter sulphamethizole sulphamethoxazole sulphamethoxypyridazine sulphamonomethoxine	CSD 309 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 liver and milk, Avian, bovine and porcine muscle (cont'd)</p>	<p>Chemistry (cont'd)</p> <p>Sulphonamides, encompassing: (cont'd)</p> <p> sulphamoxole sulphanilamide sulphapyridine sulphaquinoxaline sulphathiazole sulphatroxazole sulphisomidine sulphisoxazole</p>	<p>Documented in-house methods:</p> <p>CSD 309 by LC-MS/MS (cont'd)</p>	A
<p>Tissue and Milk</p>	<p>Macrolides and Lincosamides including:</p> <p>Erythromycin A Spiramycin Tilmicosin Tulathromycin Tylosin A Gamithromycin Tylvalosin 3-O-Acetyltylosin Josamycin Lincomycin Pirlimycin</p>	<p>CSD 373 by LC-MS/MS</p>	A
<p>Bovine, ovine, porcine & avian liver</p>	<p>Benzimidazoles including, but not limited to the following:</p> <p>Oxibendazole Fenbendazole Hydroxymethyl fenbendazole Albendazole sulphoxide Albendazole sulphone Fenbendazole sulphone Oxfendazole (Fenbendazole sulphoxide) Flubendazole Mebendazole Albendazole Carboxy-albendazole</p>	<p>CSD 129 by Elisa</p>	A



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Egg	Benzimidazoles including, but not limited to the following: Oxibendazole Fenbendazole Hydroxymethyl fenbendazole Albendazole sulphoxide Albendazole sulphone Fenbendazole sulphone Oxfendazole (Fenbendazole sulphoxide) Flubendazole Mebendazole Albendazole Carboxy-albendazole	CSD 126 by Elisa	A
Bovine Liver	Avermectins including but not limited to the following: Ivermectin Eprinomectin Abamectin Doramectin	CSD 141 by DELFIA	A
Bovine liver	Imidocarb	CSD 135 SPR Immunobiosensor	A
Bovine, ovine, porcine & avian liver	Levamisole	CSD 114 by SPR Biosensor	A
Milk	Levamisole	CSD 117 by SPR Biosensor	A
Bovine, ovine, porcine liver and milk	Avermectins encompassing: abamectin doramectin emamectin eprinomectin ivermectin moxidectin	CSD 365 by LC-MS/MS	
Bovine muscle and milk	Nitroxyuil	CSD 343 by LC-MS/MS	A
Bovine liver	Imidocarb	CSD 377 by LC-MS/MS	A



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Fish & poultry muscle	Triphenylmethane phenothiazine & phenoxaline/oxazone dyes, including: Azure Blue 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-MSMS	A
Bovine and equine plasma, milk	Phenylbutazone	CSD 317 by LC-MS/MS	A
Bovine, ovine, avian and porcine liver	β -Agonists including, but not restricted to: salbutamol mabuterol clenbuterol cimbuterol hydroxymethylclenbuterol methylclenbuterol mapenterol tulobuterol cimaterol bambuterol carbuterol terbutaline pirbuterol	CSD 111 by SPR Biosensor	A



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Bovine urine	β-Agonists including, but not restricted to: salbutamol mabuterol clenbuterol cimbuterol hydroxymethylclenbuterol methylclenbuterol mapenterol tulobuterol cimaterol bambuterol	CSD 112 by SPR Biosensor	A
Bovine, Porcine and Avian meal	β-Agonists including, but not restricted to: salbutamol mabuterol clenbuterol cimbuterol hydroxymethylclenbuterol methylclenbuterol mapenterol cimaterol brombuterol pirbuterol zilpaterol clenpenterol clenproperol chlorobrombuterol	CSD 122 by SPR Biosensor	A
Retina	Clenbuterol	CSD 137 by ELISA	A
Porcine Liver	Ractopamine	CSD 108 by SPR Biosensor	A
Bovine Urine	Ractopamine	CSD 128 by Immunobiosenor	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 feedingstuffs</p>	<p>Chemistry (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>Milk Powder, meal, milk and rice protein</p>	<p>Melamine confirmatory</p>	<p>CSD 367 by LC-MS/MS</p>	A
<p>Bovine, Ovine and porcine kidney</p>	<p>Sedatives screen including, but not necessarily restricted to the following: Azaperole Azaperone Carazolol Acepromazine Propionylpromazine Chlorpromazine</p>	<p>CSD 127 by Elisa</p>	A
<p>Porcine, Bovine, Avian and Ovine tissue</p>	<p>Species identification</p>	<p>CSD 429 by ELISA kit (Neogen-Biokit)</p>	A
<p>Brainstem Tissue</p>	<p>Prion Protein</p>	<p>DSIB 500 Diagnosis of prion protein in brain stem tissue using immunohistochemical labelling</p>	A



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Brainstem Tissue (cont'd)	TSE	DSIB 497 Diagnosis of spongiform encephalopathy in haemotoxylin and eosin stained brainstem sections	A
	Prion protein	TSE 025 by western Blot (GEL[PAGE]) Electrophoresis and Blot system TSE 015 Tissue processing - Automated method TSE 021 Tissue processing - manual method TSE SOP 016 Prion protein detection by Elisa	A
ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED	Histopathology		
Bovine, Deer and Badger Tissues	Tuberculosis Histopathology Diagnosis Testing for the Identification of Mycobacterium Bovis Lesions in Tissue Sections	DSIB 332	A
ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED	Immunology		
Whole, clotted and dried blood, serum, plasma, milk, and meat juices	Detection of Antibodies to veterinary pathogens	IDB SOP 1004 using manual ELISA test kits under flexible scope	A
Whole blood, clotted blood, serum and plasma	Detection of Antibodies to veterinary pathogens	IDB SOP 1004 using agar gel diffusion under flexible scope	A
Whole blood, clotted blood, serum and plasma	Detection of Antibodies to veterinary pathogens	IDB SOP 1004 by agglutination with commercially available reagents under flexible scope	A
Serum (Bovine)	Detection of antibodies to Enzootic Bovine Leucosis	IDB SOP 502 by Agar Diffusion Test (Symbiotics)	A



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ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED (cont'd)	Immunology (cont'd)		
Serum (Avian)	Detection of antibodies to Salmonella pullorum	IDB SOP 751 by rapid serum agglutination	A
Blood supernatant	Interferon-gamma	SOP BAC 764 by ELISA (Prionics)	A
Bovine Serum and plasma	Detection of antibodies to Enzootic bovine leucosis (EBL)	IDB 501 by ELISA test kit (Pourquier)	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
SERUM/PLASMA	Serology	Documented In-house Methods:	
(and milk)	Detection of antibodies to: Bovine Viral Diarrhoea Virus (BVDV) and Border Disease Virus	DSIB 176 by ELISA kit (LSI p80)	A
(and milk)	Bovine Viral Diarrhoea Virus (BVDV)	DSIB 257 by ELISA kit (Svanova)	A
(and milk)	Bovine Respiratory Syncytial Virus (BRSV)	DSIB 257 by ELISA kit (Svanova)	A
(and milk)	Infectious Bovine Rhinotracheitis (IBR)	DSIB 257 by ELISA kit (Svanova)	A
(and milk)	Infectious Bovine Rhinotracheitis (IBR) gE Antibody	DSIB 242 by ELISA kit (IDEXX)	A
(and milk)	Johnes Disease (MAP)	DSIB 907 by ELISA kit (Pourquier)	A
(and milk)	Johnes Disease (MAP)	DSIB 906 by ELISA kit (Prionics)	A
(and milk)	Fasciola hepatica	DSIB 272 by ELISA kit (Pourquier)	A



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SERUM/PLASMA (cont'd)	Serology (cont'd)	Documented In-house Methods:	
	Neospora	DSIB 220 by ELISA kit (IDEXX)	A
	Chlamydomphila abortus	DSIB 239 by ELISA kit (Chekit)	
	Porcine Parvovirus (PPV)	DSIB 241 by ELISA kit (LSI)	A
Bovine milk and sera	Leptospira hardjo	SOP DSIB 274 by ELISA	A
	Detection of antigen:		
Plasma/Serum/Whole Blood and Ear Notch	Bovine Viral Diarrhoea Virus (BVDV)	DSIB 234 by ELISA kit (IDEXX)	A
Faeces	Rotavirus and coronavirus	DSIB 270 by ELISA kit (Pourquier)	A
ANIMAL TISSUES & FLUIDS, ANIMAL FEEDS - AS SPECIFIED	Molecular Biology	Documented In-house methods:	
Fish tissues, serum (individual and pooled), cell cultures and ovarian fluids	Salmonid alphavirus RNA	SOP FDU 727 using RT-PCR	A
Fish tissues, serum, cell cultures and ovarian fluids	Infectious salmon anaemia virus RNA	SOP FDU 733 using RT-PCR	A
Fish tissues, serum, cell cultures and ovarian fluids	Viral haemorrhagic septicaemia virus	SOP FDU 734 using RT-PCR	A
Fish tissues, serum, cell cultures and ovarian fluids	Infectious haemopoietic necrosis virus	SOP FDU 735 using RT-PCR	A
Fish tissues, cell cultures and ovarian fluids	Koi herpes virus	SOP FDU 738 using RT-PCR	A



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Dust (house), Faeces, Swabs, Litter, Meconium, Viscera, Cultures, Feed Dust, Pig Samples, Zoonoses and Sample follow up	Isolation of Salmonella spp	SOP BAC 262 and SOP BAC 264 Methodologies conform to Microbiological Standard Method: BS EN ISO 6579:2002 A1:2007	A
Salmonella Cultures	Serotyping of Salmonella Cultures	BAC 268 Conforms to BS EN ISO 6579:2002 A1:2007)	A
Salmonella Cultures	Biochemical I.D. of Salmonella Cultures	BAC 270 (Conforms to BS EN ISO 6579:2002 A1:2007)	A
Salmonella Cultures	Antimicrobial Resistance testing of Salmonella spp	BAC 271	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
Bovine Serum	Detection of Antibodies to <i>Brucella abortus</i> - screening methods	1) SOP IDB 18, 22 & 23 by serum agglutination test (SAT) - manual and automated. 2) SOP IDB 22 by ELISA	A A
Bovine milk (individual or bulk)		3) SOP IDB 7 by Elisa manual and automated	A
Bovine Serum	Detection of antibodies to <i>Brucella abortus</i> - confirmatory methods	1) SOP IDB 20 by serum agglutination (SAT) 2) SOP IDB 8 by compliment fixation test (CR~FT)	A A



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Agri-Food Biosciences Institute (AFBI)
Veterinary Sciences Division

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Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS	Chemistry	Documented In-house Methods:	
Shellfish	PSP screen	CSD 408 by HPLC	A
Mussels, native and pacific oysters	Determination of Lipophilic (DSP) Toxins	SOP CSB 379 by LC-MS/MS	A
Mussels	Quantitative analysis of Paralytic toxins	SOP CSB 409 by HPLC	A
Shellfish	PSP detection	CSD 403, bioassay as described in AOAC official methods of analysis (1995) 959.08 Supplement 1997	A
Shellfish	DSP detection	CSD 401 and SOP CSD 402, bioassay (UKNRL-agreed protocol)	A
Shellfish	Domoic acid screen	CSD 405 by SPR Biosensor	A
Shellfish	Domoic acid confirmatory	CSD 406 by HPLC-UV	A
	Microscopy		
Seawater	Identification and enumeration of toxin producing Phytoplankton	SOP MARECOL 10 by microscopic examination using Utermohl chambers	B
END			