Schedule of Accreditation

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United Kingdom Accreditation Service

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

1964 **Accredited to ISO/IEC 17025:2017**	**Marine Directorate of the Scottish Government** **Issue No:** 051 **Issue date:** 12 April 2024	
	Scottish Government **Marine Laboratory** **375 Victoria Road** **Aberdeen** **AB11 9DB**	**Contact: Pamela Walsham** **Tel: +44 (0) 131 244 3543** **E-Mail: pamela.walsham@gov.scot** **Website: www.gov.scot/topics/marine**
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 **Marine Directorate of the Scottish Government** Scottish Government Marine Laboratory 375 Victoria Road Aberdeen AB11 9DB	**Local contact** P Walsham	Environmental testing - saline waters - Chemical, microbiological Fish and Shellfish health testing - Microbiological, virological, Molecular Biological	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Marine Directorate of the Scottish Government Scottish Government Freshwater Laboratory Faskally Pitlochry PH16 5LB	Mr A McCartney Tel: +44 (0) 131 244 2335	Environmental testing - natural waters - Chemical	B
Marine Directorate of the Scottish Government Scottish Government Marine Laboratory Mobile Laboratory within Shipping container 375 Victoria Road Aberdeen AB11 9DB	P Walsham	Chemical testing of biota and marine and estuarine waters [G1]	C

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
NATURAL WATERS	Chemical Tests	Documented In-House Procedures	
	Anions: Chloride Nitrate Nitrite Sulphate	MFL100 by ion chromatography	B
Freshwater (surface water)	Cations: Calcium Iron Magnesium Potassium Sodium	MFL600 using ICP-OES	B
	Alkalinity Conductivitity pH	MFL060 by autotitration	B
	Monomeric Aluminium	MFL300 by UV-VIS Spectrophotometry	B
	Ions: Ammonium Silicon as Silica Soluble Phosphate	MFL500 by Skalar	B
	Total Soluble Phosphate Total Soluble Nitrogen Dissolved Organc Carbon (DOC)	MFL400 by Skalar	B
SALINE WATERS	Chemical and Physical Tests		
Marine and Estuarine Waters	Dissolved Oxygen	M0820 by Winkler Titration	A, C
Estuarine and Sea waters	Total Oxidised Nitrogen (Nitrate + Nitrite) Nitrite Orthophosphate Silicate	M0700 Using the Bran & Luebbe QuAAtro Analyser	A, C A, C A, C A, C

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SALINE WATERS (cont'd)	Chemical and Physical Tests (cont'd)		
Marine phytoplankton	Chlorophyll a	M3000 by Fluorometry	A
VETERINARY (Farmed Fish)	Virological Tests	Documented In-house Procedures	
	Detection of Viral Haemorrhagic Septicaemia (VHS) virus antigen	MVirol 001 by tissue culture and ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Detection of Spring Viraemia of Carp (SVC) virus antigen	MVirol 005 by tissue culture and Testline and BioX ELISAs based on the OIE Manual of Diagnostic Tests for Aquatic Animals (2016)	A
	Detection of Infectious Haematopoietic Necrosis (IHN) virus antigen	MVirol 002 by tissue culture and in-house and / or BioX ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Isolation and detection of Infectious Salmon Anaemia (ISA) virus	MVirol 004 by tissue culture and IFAT. Used in conjunction with QPCR in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Detection of Infectious Pancreatic Necrosis (IPNV) Virus	MVirol 003 by tissue culture and in-house and / or BioX ELISA in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Farmed Fish) (cont'd)	Virological Tests (cont'd)	Documented In-house Procedures	
	Detection of Infectious Salmon Anaemia (ISA) Virus	MVirol006 by Immunohistochemistry based on OIE Manual of Diagnostic Tests for Aquatic Animals (2016) in accordance with Aquatic Animal Health (Scotland) Regulations 2013 which implements EC Directive 2006/88/EC	A
VETERINARY (Shellfish)	Histopathological Tests		
	Screening for *Bonamia ostreae* and *Marteilia refringens*	MHIST01, based on OIE Manual of Diagnostic Tests for Aquatic Animals in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
VETERINARY (Fish and Shellfish Tissues and Tissue Culture Preparations)	Molecular Biological Tests	Documented In-house Procedures	
	Screening of RNA Pathogens		
	Infectious Haematopoietic Necrosis Virus (IHNV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Infectious Pancreatic Necrosis Virus (IPNV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish and Shellfish Tissues and Tissue Culture Preparations) (cont'd)	<u>Molecular Biological Tests (cont'd)</u> Screening of RNA Pathogens	Documented In-house Procedures	
	Infectious Salmon Anaemia Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on OIE Manual of Diagnostic Tests for Aquatic Animals 2016 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Piscine Myocarditis Virus (PMCV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480	A
	Piscine orthoreovirus (PRV)	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009	A
	Salmonid Alpha Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on OIE Manual of Diagnostic Tests for Aquatic Animals 2016	A
	Viral Haemorrhagic Septicaemia Virus	MGEN RNA and supporting procedures by QPCR/RT-QPCR using the Roche Lightcycler LC96 / LC480 based on OIE Manual of Diagnostic Tests for Aquatic Animals 2016 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish, Mollusc and Crustacean Tissues and Tissue Culture preparations) (cont'd)	Screening for DNA of Pathogens and Parasites:	Documented In-house Procedures	
	Bonamia spp. (*Bonemia ostreae* and *Bonemia exitiosa*)	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Marteilia refringens M and O type	MGEN DNA and supporting procedures by QPCR using the Roche Lightcyler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Oyster Herpesvirus type 1 (OsHV)	MGEN DNA and supporting procedures by QPCR using the Roche LightcyclerLC96 / LC480 in accordance with EC Directive 2006/88/EC	A
	Pasteurella skyensis	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480	A
	Renibacterium salmoninarum	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 and Commission Decision 2010/221/EC	A
	Salmon gill poxvirus	MGEN DNA and supporting procedures by QPCR using Roche Lightcycler LC96 / LC480	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
VETERINARY (Fish, Mollusc and Crustacean Tissues and Tissue Culture preparations) (cont'd)	<u>Screening for DNA of Pathogens and Parasites:</u>		
	White Spot Syndrome Virus	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 in accordance with Commission Decision 2006/88/EC	A
	Gyrodactylus parasites (*G. salaris*, *G. derjavinoides*, *G. truttae*)	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009 which implements EC Directive 2006/88/EC	A
	Neoparamoeba perurans	MGEN DNA and supporting procedures by QPCR using the Roche Lightcycler LC96 / LC480 in accordance with Aquatic Animal Health (Scotland) Regulations 2009	A
FISH, CRUSTACEAN, MOLLUSC AND DECAPOD TISSUE	Detection and/or identification of viral and bacterial pathogen and parasite DNA or RNA sequences	MGEN Flexible Scope, SOP 1320 and supporting procedures, by manual or Qiagen QIAcube / HT) extraction using QPCR and RT-QPCR using the Roche Lightcycler LC96 / LC480 using Flexible Scope	A
END			