


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>2293</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Cefas, Food Safety</h3> <p><b>Issue No: 047    Issue date: 18 October 2021</b></p>	
	<p><b>The Cefas Weymouth Laboratory</b> The Nothe Barrack Road Weymouth DT4 8UB</p>	<p><b>Contact: Lee Williams</b> <b>Tel: +44 (0)1502521340 / +44 (0)7748622903</b> <b>E-Mail: lee.williams@cefas.co.uk</b> <b>Website: www.cefas.co.uk</b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>FOOD AND FOOD PRODUCTS - BIVALVE MOLLUSCS</p> <p>Shellfish</p> <p>Shellfish</p> <p>Fresh water, algae, blue-green algae food supplements (tablets or powder) and shell fish</p>	<p><u>Chemical Analysis</u></p> <p>Determination of Domoic acid (amnesic shellfish poisoning toxin, ASP)</p> <p>Paralytic shellfish poisoning toxin (PSP): Semi-quantitative screening and quantitative test</p> <p>Lipophilic Marine Toxins (DSP): Quantitative test</p> <p>Determination of Cyanotoxins: Quantitative test MC-RR MC-LA MC-LY MC-LF MC-LW MC-YR MC-WR MC-HiIR MC-HtyR MC-LR Asp<sup>3</sup>-MC-LR Asp<sup>3</sup>-MC-RR Nodularin</p>	<p>Documented in-house methods:</p> <p>SOPs 1180, 1744, 1200, 1243 and 1723, by HPLC-UV</p> <p>SOPs 1180, 1744, 1784, 1785, 1788 and 2168 by HPLC-FLD based on AOAC Official method 2005.06</p> <p>SOPs 1180, 2098 2097, 2099 and 2101 by LC-MS/MS</p> <p>SOP 2308 by LC-MS/MS</p>



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<p>FOOD AND FOOD PRODUCTS - BIVALVE MOLLUSCS</p> <p>Bivalve mollusc digestive gland</p> <p>Crustacean Tissue</p> <p>Fish Tissues</p> <p>Fish Tissues</p>	<p><u>Molecular Biology</u></p> <p>Quantification of viral RNA from: Norovirus genogroup I and II Hepatitis A virus</p> <p>Detection and confirmation of white spot syndrome virus (WSSV) DNA (absence or presence)</p> <p>Detection and confirmation of Cyprinid Herpes virus type III (CyHV-3) DNA (absence or presence)</p> <p>Detection and confirmation of Spring Viraemia of Carp virus (SVCV) RNA (absence or presence)</p>	<p>Documented In-house methods:</p> <p>SOP 1330 by real-time reverse transcriptase PCR based on ISO15216-1:2017 using the Stratagene Mx3005P thermal cycler</p> <p>SOP 2076 by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen DNA tissue kit followed by conventional PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Products direct sequenced using the ABI Bg Dye Terminator Kit v3.1 and ABI 3500xl genetic analyser</p> <p>SOP 2152 Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen Virus mini kit, followed by a published PCR method. Products direct sequenced using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p> <p>SOPs 2063, Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 Advanced XL) with Qiagen Virus mini kit, followed by conventional PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Products direct sequenced using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>



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<p>FOOD AND FOOD PRODUCTS - BIVALVE MOLLUSCS (cont'd)</p> <p>Fish Tissues</p>	<p><u>Molecular Biology</u> (cont'd)</p> <p>Detection and confirmation of Koi Herpes virus (KHV) DNA (absence or presence)</p>	<p>Documented In-house methods:</p> <p>SOPs 2062. Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen Virus mini kit, followed by conventional PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Followed by a nested PCR designed in house. Products direct sequencing using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>
<p>Fish tissues</p>	<p>Detection and confirmation of Viral Haemorrhagic septicaemia virus (VHSV) RNA (absence or presence)</p>	<p>SOP 2108 – Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen Virus mini kit, followed by published conventional RT-PCR methods. Products direct sequencing using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>
<p>Fish tissues</p>	<p>Detection and confirmation of Infectious Haematopoietic Necrosis virus (IHNV) RNA (absence or presence)</p>	<p>SOP 2107 - Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen Virus mini kit, followed by conventional RT-PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Products direct sequencing using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>
<p>Crustacean tissues</p>	<p>Detection and confirmation of Yellow Head Virus (YHV) RNA (absence or presence)</p>	<p>SOP 2171 - Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen RNA Tissue kit, followed by conventional RT-PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Products direct sequencing using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>



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<p>FOOD AND FOOD PRODUCTS - BIVALVE MOLLUSCS (cont'd)</p> <p>Fish, Shellfish and Crustacean tissue</p> <p>Crustacean tissues</p>	<p><u>Molecular Biology</u> (cont'd)</p> <p>Detection and identification of viruses, bacteria, fungi and parasites</p> <p>Detection and confirmation of Taura Syndrome Virus (TSV) RNA (absence or presence)</p>	<p>Documented in-house methods:</p> <p>Tests validated under flexible scope (SOPs 2064 and 2016). Test overview SOP will reference SOPs 2008, 2006, 1537, 2007, 1742, 1546, and will involve robotic extraction, conventional PCR or RT-PCR, products confirmed by direct sequencing using the ABI Bigdye terminator kit v3.1 and ABI 3500xl genetic analyser</p> <p>SOP 2170 - Prepared by robotic extraction (Qiagen BioRobot EZ1 or EZ1 advanced XL) with Qiagen RNA Tissue kit, followed by conventional RT-PCR as stated in the OIE manual of Diagnostic Tests for Aquatic Animals. Products direct sequencing using the ABI Big Dye Terminator kit v3.1 and ABI 3500xl genetic analyser</p>
<p>FOOD AND FOOD PRODUCTS BIVALVE MOLLUSCS</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration:</p> <p><i>Escherichia coli</i></p> <p>Detection:</p> <p><i>Salmonella</i> spp (excluding <i>S. typhi</i>)</p> <p><i>Vibrio parahaemolyticus</i></p>	<p>SOP 1175, based on ISO 16649-3:2015</p> <p>SOP 1176, based on ISO6579-1:2017</p> <p>SOP 1333, based on ISO 21872-1:2017</p>



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FISH, BIVALVE MOLLUSC AND CRUSTACEAN TISSUES	<u>Virological Tests</u>	Documented in-house methods in accordance with the following:
Brain, Kidney and Spleen	Isolation and identification of Viral Haemorrhagic Septicaemia virus (VHSV)	SOP's 1248, 1279, 1125 and 1259 by tissue culture and ELISA in accordance with Commission Decision (EU) 2015/1554, as retained and amended in UK legislation (based on OIE Manual of Diagnostic Tests for Aquatic Animals)
Brain, Kidney and Spleen	Isolation and identification of Infectious Haematopoietic Necrosis virus (IHNV)	SOP's 1248, 1279, 1125 and 1263 by tissue culture and IFAT in accordance with Commission Decision (EU) 2015/1554, as retained and amended in UK legislation (based on OIE Manual of Diagnostic Tests for Aquatic Animals)
Brain, Kidney and Spleen	Isolation and identification of spring Viraemia of Carp (SVC) virus	SOP's 1248, 1279, 1125 and 1259 by tissue culture and ELISA (based on OIE Manual of Diagnostic Tests for Aquatic Animals)
Fish tissues (homogenates)	Isolation of Epizootic haematopoietic necrosis virus (EHNV)	SOP's 1248, 1279 and 1125 by tissue culture (BF2 and EPC cells) (based on OIE Manual of Diagnostic Tests for Aquatic Animals)
Fish tissue and homogenates	Isolation and identification of Infectious Salmon Anaemia virus (ISAV)	SOPs 1248, 1279, 1125, 1263 & 1268 by tissue culture (TO and SHK cells) and IFAT in accordance with Commission Decision (EU) 2015/1554, as retained and amended in UK legislation (based on OIE Manual of Diagnostic Tests for Aquatic Animals)



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BIVALVE MOLLUSC AND CRUSTACEAN TISSUES	<u>Histopathological Tests</u>	Documented in-house methods in accordance with the following:
Bivalve molluscs	Screening for parasites	SOP 1681 and SOP1687. Haematoxylin and Eosin staining using light microscopy based on OIE Manual of Diagnostic Tests for Aquatic Animals in accordance with Regulation (EU) 2016/429, (EU) 2018/1629 and (EU) 2018/1882
Crustacean Tissues	Detection of pathogens and notifiable diseases	SOP 1795 and SOP 1797 Haematoxylin and Eosin staining using light microscopy. based on OIE Manual of Diagnostic Tests for Aquatic Animals in accordance with Regulation (EU) 2016/429, (EU) 2018/1629 and (EU) 2018/1882

END