


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	Public Health England, Food, Water and Environmental Microbiology Laboratory, Porton	
	Issue No: 029 Issue date: 14 August 2018	
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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SAMPLES	<u>Microbiological Tests</u> Airborne microbial load (aerobic colony count and moulds) Surface microbial contamination	Documented In-house Methods 1) POR/EM1 following sampling using an MAS-100 + Tryptone Soya Agar and DRBC plates 2) POR/EM4 using settle plates POR/EM4 using contact plates containing neutraliser
ENVIRONMENTAL SWABS AND FOOD and FOOD PRODUCTS (Unspecified)	<u>Microbiological Tests</u> Detection: <i>Campylobacter</i> spp., confirmed <i>Escherichia coli</i> O157, confirmed	Documented In-house Methods POR/F21, FW&E Standard Method, Issue 1, based on ISO 10272-1: 2006 and confirmation as either <i>C. jejuni</i> or <i>C.coli</i> by DNA detection using manual extraction and real-time PCR using method M3 or biochemical/serological confirmation for <i>Campylobacter</i> spp POR/F28, FW&E Standard Method, Issue 1, In house method using immunomagnetic separation and CT-SMAC with confirmation as <i>E.coli</i> O157:H7 and characterised as VT1 and/ or VT2 gene positive by DNA detection using manual extraction and real-time PCR using method M3 or <i>E coli</i> O157 using serological/ biochemical confirmations



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ENVIRONMENTAL SWABS AND FOOD and FOOD PRODUCTS (Unspecified) (cont'd)	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Detection: (cont'd)</p> <p><i>Salmonella</i> spp., including serological identification to Group level</p> <p>Salmonella DNA</p> <p><i>Listeria</i> spp (including identification) and <i>Listeria monocytogenes</i></p>	<p>Documented In-house Methods</p> <p>POR/F13, FW&E Standard Method, Issue 1 based on BS EN ISO 6579-1:2017 and confirmation as <i>Salmonella</i> spp by DNA detection using manual extraction and real-time PCR using method M3 or biochemical including API/ serological confirmations</p> <p>FPOS41 (POR F13) using FPOS163 (POR M2) Life Technologies MicroSEQ Real Time PCR</p> <p>POR/F19, FW&E Standard Method, Issue 1 based on BS EN ISO 11290-1:1996 + A1:2004 and confirmation as <i>Listeria</i> spp and/or <i>Listeria monocytogenes</i> by DNA detection using manual extraction and real-time PCR using method M3 or biochemical confirmation using API</p>
FOOD including SPROUTED SEEDS, and IRRIGATION WATERS	<p>Shiga toxin producing <i>E. coli</i> (STEC) DNA (presumptive)</p> <p>Enumeration:</p> <p>Aerobic colony count at 30°C</p>	<p>POR/M6 FW&E Standard Method, Issue 1 based on BS EN ISO 13136:2012 using automated Maxwell 16 extraction and Real Time PCR</p> <p>1) POR/F10 using spread or spiral plate based on ISO 4833-2: 2013</p> <p>2) POR/F9 by pour plate, based on ISO 4833-1: 2013</p>



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ENVIRONMENTAL SWABS AND FOOD and FOOD PRODUCTS (Unspecified) (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods
	Enumeration: (cont'd)	
	Presumptive and confirmed <i>Bacillus cereus</i> (and <i>Bacillus</i> spp recovered)	POR/F15 using spread or spiral plate based on ISO 7932:2004
	<i>Campylobacter</i> spp	POR/F21 based on ISO 10272-2: 2006, via direct plating and with confirmation using Oxidase, Aerobic Growth Capability, Motility and Morphology
	<i>Clostridium perfringens</i>	POR/F14 based on BS EN ISO 7937: 2004
	<i>Escherichia coli</i> , (β-glucuronidase positive)	POR/F20 using spread or spiral plate on TBX agar at 30°C/4hrs and 44°C/24hrs
	<i>Escherichia coli</i> (β-glucuronidase positive)	POR/F22 by MPN, based on BS EN ISO 16649-3: 2015
	Enterobacteriaceae, presumptive and confirmed	POR/F23 by pour plate based on ISO 21528-2:2004
(includes Cloths; excludes dried foods and brine)	<i>Escherichia coli</i>	POR/F32a using MPN TEMPO method
(includes Cloths)	Enterobacteriaceae	POR/F32 using MPN TEMPO method
	<i>Listeria</i> spp (including identification) and <i>Listeria monocytogenes</i>	POR/F19 based on ISO 11290-2: 1998 + A1:2004 and confirmation as <i>Listeria</i> spp and/or <i>Listeria monocytogenes</i> by DNA detection using manual extraction and real-time PCR using method M3 or biochemical confirmation using API



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ENVIRONMENTAL SWABS AND FOOD and FOOD PRODUCTS (Unspecified) (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) Coagulase positive Staphylococci	Documented In-house Methods POR/F12 based on ISO 6888-1:1999 using DNase, latex agglutination and tube coagulase
SHELLFISH	Detection: <i>Salmonella</i> spp	POR/F13 based on BS EN ISO 6579-1:2017 and confirmation as <i>Salmonella</i> spp by DNA detection using manual extraction and real-time PCR using method M3 or biochemical including API/serological confirmations
MILK AND DAIRY PRODUCTS	Enumeration: <i>Escherichia coli</i>	POR/F16 based on Generic CEFAS Protocol, October 2016
	<u>Chemical Analysis</u> Phosphatase	POR/D7 based on ISO 11816-1:2013
	<u>Microbiological Tests</u> Detection: <i>Listeria</i> spp	Documented In-house Methods POR/F19 based on ISO 11290-1:1996
	<i>Salmonella</i> spp	POR/F13 based on BS EN ISO 6579-1:2017 and confirmation as <i>Salmonella</i> spp by DNA detection using manual extraction and real-time PCR using method M3 or biochemical including API/serological confirmations



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MILK AND DAIRY PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration: Aerobic colony count at 30°C (plate count test) Detection: Coliforms, confirmed <i>Escherichia coli</i> (β-glucuronidase positive)	Documented In-house Methods POR/F9 by pour plate, based on ISO 4833-1: 2013 POR/D4 by colony count based on HPA SOP D4, issue 2 (based on withdrawn HPA standard method) POR/F22 by MPN based on BS EN ISO 16649-3: 2015
WATERS Drinking water, environmental (ground water, surface water, saline), process, recreational, treated sewage (including swabs, sediments and sludges) (including swabs, sediments and sludges) Drinking water, environmental (ground water, surface water, saline), process, recreational, treated sewage	<u>Microbiological Tests</u> Detection: <i>Legionella</i> spp Enumeration: <i>Legionella</i> spp <u>Microbiological Tests</u> Aerobic colony count at 22°C and 37°C	POR/W12 based on ISO 11731: 1998 / BS 6068-4.12:1998 POR/W12 based on ISO 11731: 1998 / BS 6068-4.12:1998 Documented In-house methods based on the Microbiology of Drinking Water (MDW), Environment Agency POR/W4 by pour plate based on MDW, Part 7:2012
Bathing waters and cooling towers	Aerobic colony count at 30°C	POR/W4 by pour plate using spread plates on YEA based on Microbiology of Drinking Water Part 7, 2012



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house methods based on the Microbiology of Drinking Water (MDW), Environment Agency
Drinking water, environmental (ground water, surface water, saline), process, recreational, treated sewage (cont'd)	Presumptive and confirmed Coliforms	POR/W2 by membrane filtration, based on MDW, Part 4:2009
	Presumptive and confirmed <i>Escherichia coli</i>	POR/W2 by membrane filtration, based on MDW, Part 4:2009
	Presumptive and confirmed Enterococci	POR/W3 by membrane filtration, based on MDW, Part 5:2012
	<i>Pseudomonas aeruginosa</i>	POR/W6 by membrane filtration, based on MDW, Part 8:2010
	Sulphite reducing clostridia and identification of <i>Clostridium perfringens</i>	POR/W5 by membrane filtration, based on MDW, Part 6:2010
	Coliforms/ <i>Escherichia coli</i>	POR/W18, MPN using the Colilert system, based on MDW, Part 4:2009
Endoscopy Waters	Aerobic colony count (mesophilic)	POR/W22 using Tryptone Soya Agar at 30°C for 5 days in accordance with Choice Framework for Local Policy and Procedures (CFPP), 01-06, 2012
END		