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## Schedule of Accreditation

issued by

### United Kingdom Accreditation Service

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

### Public Health England

### Food, Water and Environmental Microbiology Laboratory, London

Issue No: 022 Issue date: 21 August 2017

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SWABS (cont'd)	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Detection: (cont'd)</p> <p><i>Escherichia coli</i> O157</p> <p><i>Listeria</i> spp and <i>Listeria monocytogenes</i></p> <p>Environmental, rapid-growing presumptive <i>Mycobacterium</i> spp</p> <p><i>Salmonella</i> spp</p> <p>Enumeration:</p> <p>Aerobic colony count at 30 °C</p>	<p>Documented In-house Methods (cont'd)</p> <p>F7367 (F17)/FNES25 (version 3) using Automated Immunomagnetic Bead Separation. Confirmation using MacConkey Agar, Nutrient Agar, Latex Agglutination and API20E</p> <p>F7361 (F19)/ FNES22 (Version 2) based on ISO 11290-1:1996 with amendment 1 and confirmation as <i>Listeria</i> spp and/or <i>Listeria monocytogenes</i> by real-time PCR using method FLOS2.1 M3i 1.0 or biochemical confirmation using either API or MicroGen <i>Listeria</i> identification kit</p> <p>F8006 (W23) (appendix) Middlebrook 7H11 agar incubated at 30 °C for 7 days and Ziehl-Neelsen's acid fast confirmatory stain</p> <p>F7355 (F13)/FNES16 (version 2) based on ISO 6579:2002: Amdt 1: 2007 and confirmation as <i>Salmonella</i> spp by real-time PCR using method FLOS2.1 M3i 1.0 or biochemical/ serological confirmations.</p> <p>Documented In-house Method F7398, for sample handling and testing in conjunction with the corresponding in-house food method:</p> <p>F7349 (F10) /FNES14 (version 3) using surface plating (spread or spiral) on PCA incubated at 30°C for 48h</p>



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ENVIRONMENTAL SWABS (cont'd)	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Enumeration: (cont'd)</p> <p>Enterobacteriaceae</p> <p><i>Escherichia coli</i> (<math>\beta</math>-glucuronidase positive)</p>	<p>Documented In-house Methods (cont'd)</p> <p>F7359 (F23)/FNES13 (version 2) by colony count based on ISO 21528-2:2004</p> <p>F7382 (F20)/ FNES47 (version 1) Colony count on chromogenic medium with initial incubation conducted at 30°C for 4 hours followed by incubation at 44°C for 18 ± 2 hours.</p>
<p>FOODS and FOOD PRODUCTS, general unless specified</p> <p>Baby and infant milks, milk formulae and related products (powdered or liquid)</p>	<p><u>Microbiological Tests</u></p> <p>Detection:</p> <p><i>Campylobacter</i> spp</p> <p>Presumptive <i>Cronobacter sakazakii</i> (<i>Enterobacter sakazakii</i>)</p> <p><i>Escherichia coli</i> O157</p> <p><i>Listeria</i> spp and <i>Listeria monocytogenes</i></p>	<p>Documented In-house Methods</p> <p>F7357 (F21)/FNES15 (version 2) using enrichment followed by plating on CCDA at 41.5°C for 44 h and confirmation</p> <p>F7358 based on a combination of ISO TS 22964:2006 and FDA method 2002</p> <p>F7367 (F17)/FNES25 (version 3) using Automated Immunomagnetic Bead Separation. Confirmation using MacConkey Agar, Nutrient Agar, Latex Agglutination and API20E</p> <p>F7361 (F19)/ FNES22 (Version 2) based on ISO 11290-1:1996 with amendment 1 and confirmation as <i>Listeria</i> spp and/or <i>Listeria monocytogenes</i> by real-time PCR using method FLOS2.1 M3i 1.0 or biochemical confirmation using either API or MicroGen <i>Listeria</i> identification kit</p>



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FOODS and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods (cont'd)
	Detection: (cont'd)	
	<i>Salmonella</i> spp	F7355 (F13)/FNES16 (version 2) based on ISO 6579:2002: Amdt 1: 2007 and confirmation as <i>Salmonella</i> spp by real-time PCR using method FLOS2.1 M3i 1.0 or biochemical/ serological confirmations.
	Detection and Enumeration:	
	<i>Vibrio</i> spp	F7352 based on ISO/TS 21872-1:2007 and ISO/TS 21872-2:2007
	Enumeration:	
	<i>Bacillus cereus</i> , presumptive (and/or <i>Bacillus</i> spp recovered)	1) F7351 (F15)/ FNES9 (Version 3) based on ISO 7932 : 2004  2) F7351 using PEMBA, incubation at 30°C for 48hrs. Confirmation by haemolysis using horse blood agar
	<i>Campylobacter</i> spp	FNES15 (F21) using mCCDA agar incubated under micro-aerophilic conditions at 41.50C with confirmation of Micro-aerophilic / aerobic growth, Gram stain, Oxidase and Oxoid latex Agglutination Kit.
	<i>Clostridium perfringens</i>	F7353 (F14)/ FNES11 (version 3) based on ISO 7937:2004
	Coliforms, presumptive	F7383 colony count based on ISO 4832:2006
Baby and infant milks, milk formulae and related products (powdered or liquid)	<i>Enterobacteriaceae</i>	1) F7359 (F23)/FNES13 (version 2) by colony count based on ISO 21528-2:2004
		2) FLOS13 (F18)/FNES31 (version 1) F18 by MPN based on ISO 21528-1:2004



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FOODS and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods (cont'd)
	Enumeration (cont'd)	
	<i>Escherichia coli</i>	F7382 (F20)/ FNES47 (Version 1) Colony count on chromogenic medium based on ISO 16649-2:2001 with initial incubation conducted at 30°C for 4 hours followed by incubation at 44°C for 18 ± 2 hours.
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	F7361 (F19)/ FNES22 (Version 2) based on ISO 11290-2:1998 with amendment 1 and confirmation as <i>Listeria</i> spp and/or <i>Listeria monocytogenes</i> by real-time PCR using method FLOS2.1 M3i 1.0 or biochemical confirmation using either API or MicroGen <i>Listeria</i> identification kit
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i>	F7354 (F12)/FNES08 (version 2) based on BS EN ISO 6888-1: 1999. Confirmation by DNase, Staphaurex Latex agglutination test kit and tube coagulase test.
	Total aerobic colony count	F7349 (F10) /FNES14 (version 3) using surface plating (spread or spiral) on PCA incubated at 30°C for 48h
	Yeasts and Moulds at 25 °C	F7365 based on Practical Food Microbiology 2003, Section 6.17 using OGYE Agar
SHELLFISH Molluscan bivalve species	$\beta$ -glucuronidase positive <i>Escherichia coli</i> (MPN)	F8026 (F16)/FNES48 (Version 2) MPN method based on Cefas generic protocol, issue 12, and BS EN ISO 16649-3: 2015



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS, potable, pool, process, domestic services, environmental and cooling towers unless specified	<u>Microbiological Tests</u>	Documented In-house Methods
	Detection:	
	<i>Campylobacter</i> spp	FLOS10 (W8)/ FNES52 (Version 2)
	<i>Escherichia coli</i> O157	F8054 (W16) /FNES34 (Version 1) using membrane filtration and CT-SMAC incubated at 41.5°C/6hrs and/or 24hrs. Confirmation using serology and biochemical tests (API)
	<i>Salmonella</i> spp	W7
	Enumeration:	
	Coliforms and <i>Escherichia coli</i>	F7400 (W18)/ FNES50 (version 1) using the Colilert Quantitray System, based on Microbiology of Drinking Water Part 4, 2009
	Coliforms <i>Escherichia coli</i>	F7386 (W2)/ FNES39 (version 2) using membrane filtration and MLSB based on Microbiology of Drinking Water Part 4, 2009
	Sulphite reducing clostridia including <i>Clostridium perfringens</i>	F7389 based Microbiology of Drinking Water Part 6, 2010
	Enterococci	F7387 (W3)/ FNES23 (version 2) based on Microbiology of Drinking Water Part 5, 2012
<i>Pseudomonas aeruginosa</i>	F7390 (W6)/ FNES12 (version 2) based on Microbiology of Drinking Water Part 8, 2010	
<i>Staphylococcus aureus</i>	F8052 (W10)/ FNES36 (Version 2) using membrane filtration	



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WATERS, potable, pool, process, domestic services, environmental and cooling towers unless specified (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-house Methods
Potable and process	Enumeration (cont'd) Total aerobic colony count at 22 °C and at 37 °C	F7388 (W4)/ FNES58 (Version 1) based on Microbiology of Drinking Water Part 7, 2012
Pool	Total aerobic colony count at 37 °C for 24 hrs Total aerobic colony count at 30 °C	F7388 based on Microbiology of Drinking Water Part 7, 2012 F7316 using spread plates on YEA based on Microbiology of Drinking Water Part 7, 2012
Endoscopy rinse waters and other instrument rinse fluids	Detection: Environmental, rapid-growing presumptive <i>Mycobacterium</i> spp	F8006 (W23) using membrane filtration and Middlebrook 7H11 agar incubated at 30 °C for 7 days and Ziehl-Neelsen's acid fast confirmatory stain
Endoscope washer disinfectant (WD) rinse waters	Total aerobic colony count Detection and Enumeration:	FLOS11 (W22) / FNES10 (version 3) using membrane filtration and TSA at 30°C for 5 days in accordance with HTM 01-06 Part E 2016
WATERS, BIOFILMS and ASSOCIATED SEDIMENTS	Detection and Enumeration of <i>Legionella</i> spp and <i>Legionella pneumophila</i> serotypes 1-14	F7375 (W12) / (FNES24 (Version 8) based on BS 6068-4.12:1998/ ISO 11731:1998
END		