

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Accredited to
ISO/IEC 17025:2017

UK Health Security Agency, Food, Water and Environmental Microbiology Services

Issue No: 049 Issue date: 14 February 2024

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Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address 61 Colindale Avenue London NW9 5HT	Local contact Dr Sandra Lai Tel: +44 (0)20 8327 6548/6550/6551 E-Mail: fwem@ukhsa.gov.uk	Microbiological Molecular L
Address Porton Down Salisbury Wiltshire SP4 0JG	Local contact Dr Caroline Willis Tel: +44 (0) 1980 616766 E-Mail: Caroline.Willis@uksha.gov.uk	Chemical Microbiological Molecular P
Address Block 10 York Biotech Campus Sand Hutton York YO41 1LZ	Local contact Dr Heather Aird Tel: +44 (0) 1904468948 E-Mail: Heather.Aird@uksha.gov.uk	Chemical Microbiological Molecular Y



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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
FOODS AND FOOD PRODUCTS	<u>Chemistry Tests</u>	Documented In-House Method:	
Milk and Dairy Products	Determination of alkaline phosphatase activity	FNES87 (P3) based on BS EN ISO 11816-1: 2013	P, Y
Food and Food Products	Water activity	FNES67 (P1) based on BS EN ISO 18787:2017	Y
ANIMAL FEEDS	<u>Microbiological Tests</u>	Documented In-house Methods	
Pet Food and Dog Chews	Detection: <i>Salmonella</i> spp	FNES16 (F13) based on ISO 6579-1:2017+A1:2020 for the purpose of the Animal By-Products (Enforcement) (England) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011	L
Dried Pet Food and Dog Chews	Enumeration: Enterobacteriaceae	FNES13 (F23) based on ISO 21528-2:2017 for the purpose of the Animal By-Products (Enforcement) (England) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011	L



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ENVIRONMENTAL SAMPLES	<u>Microbiological Tests</u>	Documented In-house Methods	
Exposed settle plates, or plates from air samplers (incubated and enumerated as received)	Enumeration: Airborne microbial load (aerobic colony count and moulds)	FNES143 following sampling using an MAS-100 + Tryptone Soya Agar and DRBC plates	P
Animal hair, wool, soil and environmental samples	Detection: <i>Bacillus anthracis</i> (anthrax spores), confirmed	FNES121 Documented In-house Method based on Anthrax in humans and animals, 4 th Ed, World Health Organization 2008	Y
ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths	<i>Campylobacter</i> spp	FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Confirmation by biochemical/ serological tests	L, P
	<i>Campylobacter</i> spp	Optional identification for <i>C. jejuni</i> , <i>C. lari</i> and <i>C. coli</i> only by MALDI TOF MS using method FNES93	L, P
	<i>Escherichia coli</i> O157	FNES25 (F17) In-house method using Immunomagnetic separation and CT-SMAC agar. Confirmation by latex agglutination and Biomerieux API20E	L, P
		Optional confirmation as <i>E. coli</i> O157:H7 and characterised as VT1 and/ or VT2 gene positive by DNA detection using real-time PCR using method FNES44 (M3)	P



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ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
	Detection: (cont'd)		
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i> (including identification)	FNES22 (F19) based on ISO 11290-1:2017 with confirmation by biochemical confirmation using either Biomerieux API or Microgen - Listeria gallery	L, P, Y
		Optional confirmation by DNA detection using real-time PCR using method FNES44 (M3)	L, Y
		Optional confirmation by MALDI TOF MS using method FNES93 (M7)	P
	<i>Salmonella</i> spp, including serological identification to group level	FNES16 (F13) based on BS EN ISO 6579-1:2017+A1:2020 with confirmation by Biochemical tests including Biomerieux API20E /serological confirmations or by real-time PCR using method FNES44 (M3)	L, P, Y
	Enumeration:		
	Aerobic colony count at 30°C	1) FNES14 (F10) In-house Method based on based on BS EN ISO 4833-2: 2013+A1:2022 using surface plating (spread or spiral) on PCA incubated at 30°C for 48h	L, P, Y
		2) FNES40 (F9) based on BS EN ISO 4833-1: 2013 +A1:2022	P



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ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths (cont'd) (Location Y: Packaging swabs only)	<u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) Presumptive and confirmed <i>Bacillus cereus</i> (and <i>Bacillus</i> spp recovered) <i>Campylobacter</i> spp <i>Clostridium perfringens</i> Enterobacteriaceae, presumptive and confirmed <i>Escherichia coli</i> , β -glucuronidase positive	Documented In-house Methods FNES9 (F15) based on BS EN ISO 7932:2004+A1:2020 FNES15 (F21) based on BS EN ISO 10272-2: 2017 Optional identification for <i>C. jejuni</i> , <i>C. lari</i> and <i>C. coli</i> only by MALDI TOF MS using method FNES93 FNES11 (F14) based on BS EN ISO 7937:2004 1) FNES13 (F23) based on ISO 21528-2:2017 2) FNES72 (F38) In-house method using MPN TEMPO 1) FNES3 (F8) based on BS EN ISO 16649-2:2001 2) FNES47 (F20) In-house method using spread or spiral plate on TBX agar with initial incubation conducted at 30°C for 4 hours followed by incubation at 44°C for 18 \pm 2 hours. 3) POR/F32a using MPN TEMPO method	P P, Y P, Y P L, P, Y L, P, Y Y L, P P



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ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths(cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
	Enumeration: (cont'd)		
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i> (including identification)	FNES22 (F19) based on ISO 11290-2: 2017 and confirmation by biochemical confirmation using Biomerieux API or Microgen - Listeria gallery	L, P, Y
		Optional confirmation by DNA detection real-time PCR using method FNES44 (M3)	L, Y
		Optional confirmation by MALDI TOF MS using method FNES93 (M7)	P
	Coagulase positive Staphylococci	FNES8 (F12) based on BS EN ISO 6888-1:2021 using confirmation by DNase, latex agglutination and tube coagulase	P, Y
FOOD and FOOD PRODUCTS, general unless specified	<u>Microbiological Tests</u>	Documented In-house Methods	
	Detection:		
	<i>Campylobacter</i> spp	FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Confirmation biochemical/serological confirmation for <i>Campylobacter</i> spp.	L, P, Y
		Optional identification for <i>C. jejuni</i> , <i>C. lari</i> and <i>C. coli</i> only by MALDI TOF MS using method FNES93	L, P, Y



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<p>FOOD and FOOD PRODUCTS, general unless specified (cont'd)</p> <p>Baby and infant milks, milk formulae and related products (powdered or liquid)</p>	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
	Detection: (cont'd)		
	Presumptive <i>Cronobacter</i> spp	FLOS43 based on BS EN ISO 22964:2017	L
	<i>Escherichia coli</i> O157	FNES25 (F17) In-house method using Immunomagnetic separation and CT-SMAC agar. Confirmation by latex agglutination and Biomerieux API20E	L, P, Y
		Optional 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 FNES44 (M3)	P
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i> (including identification)	FNES22 (F19) based on ISO 11290-1:2017 with confirmation by biochemical tests using either Biomerieux API or Microgen - Listeria gallery	L, P, Y
		Optional confirmation by DNA detection using real-time PCR using method FNES 44 (M3)	L, Y
		Optional confirmation by MALDI TOF MS using method FNES93 (M7) POR/M7	P



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FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd) Detection (cont'd) <i>Salmonella</i> spp, including serological identification to group level	Documented In-house Methods FNES16 (F13) based on BS EN ISO 6579-1:2017+A1:2020 with confirmation by biochemical tests using Biomerieux API20E/serological Optional confirmation by real-time PCR using method FNES44 (M3)	L, P, Y L, P, Y
Baby and infant milks, milk formulae and related products (powdered or liquid)	Enterobacteriaceae, presumptive and confirmed Detection and Enumeration:	FNES31 (F18) by MPN based on BS EN ISO 21528-1:2017	L
Fish and Shellfish	<i>Vibrio</i> spp Enumeration: Aerobic colony count	FNES84 In-house method enrichment in alkaline peptone water and sub-cultured to TCBS agar 1) FNES14 (F10) In-house Method based on based on BS EN ISO 4833-2: 2013+A1:2022 using surface plating (spread or spiral) on PCA incubated at 30°C for 48h 2) FNES40 (F9) based on BS EN ISO 4833-1:2013+A1:2022	L L, P, Y
(Location Y: Raw milks only)	<i>Bacillus cereus</i> , presumptive (and/or <i>Bacillus</i> spp recovered)	FNES9 (F15) based on BS EN ISO 7932:2004+A1:2020	P, Y L, P, Y
(Location Y: Chicken neck skins only)	<i>Campylobacter</i> spp	FNES15 (F21) based on BS EN ISO 10272-2:2017 Optional identification for <i>C. jejuni</i> , <i>C. lari</i> and <i>C. coli</i> only by MALDI	L, P, Y L, P, Y



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		TOF MS using method FNES93	
FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
	Enumeration: (cont'd)		
	<i>Clostridium perfringens</i>	FNES11 (F14) based on BS EN ISO 7937:2004	L, P, Y
	Enterobacteriaceae, presumptive and confirmed	FNES13 (F23) based on BS EN ISO 21528-2:2017	L, P, Y
(Excluding chocolate, milk and coloured dried herbs and spices) (Location P: includes milk products)	Enterobacteriaceae	FNES72 (F38) In-house method using MPN TEMPO method	L, P, Y
	<i>Escherichia coli</i> , β-glucuronidase positive	1) FNES3 (F8) based on BS ISO 16649-2:2001	Y
		2) FNES47 (F20) using spread or spiral plate colony count on TBX agar initial incubation conducted at 30°C for 4 hours followed by incubation at 44°C for 18 ± 2 h	L, P
(Location L: dried and frozen products only)		3) FNES28 (F22) by MPN, based on BS EN ISO 16649-3: 2015	L, P, Y
(Excludes dried foods and brine)		4) FNES131 using MPN TEMPO method	P
MILK AND DAIRY PRODUCTS	Enumeration:		
	Coliforms, confirmed	FNES41 (D4) based on BS EN ISO 4832:2006	L, P, Y
	Enterobacteriaceae, presumptive and confirmed	FNES13 (F23) based on BS EN ISO 21528-2:2017	L, P, Y



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FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
SHELLFISH Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams)	Enumeration: (cont'd)		
	<i>Escherichia coli</i> β-glucuronidase positive	FNES48 (F16) by MPN based on BS EN ISO 16649-3: 2015 and in accordance with CEFAS Generic Protocol, issue 15	L, P, Y
	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	FNES22 (F19) based on BS EN ISO 11290-2:2017 with confirmation by biochemical tests using either Biomerieux API or Microgen - Listeria gallery	L, P, Y
		Optional confirmation by real-time PCR using method FNES44 (M3)	L, Y
		Optional confirmation by MALDI TOF MS using method FNES93 (M7)	P
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i>	FNES8 (F12) based on BS EN ISO 6888-1:2021. Confirmation by DNase, Latex agglutination and tube coagulase test	L, P, Y



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WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground, and surface (unless specified)	<u>Microbiological Tests</u> (cont'd) Detection: <i>Escherichia coli</i> O157	Documented In-house Methods FNES34 (W16) based on the Microbiology of Drinking Water Part 4F, 2016	L, Y
WATERS, drinking, domestic services, recreational, pool, process, cooling towers	Enumeration: <i>Legionella</i> spp and <i>Legionella pneumophila</i> , SG1 and SG 2-14	FNES24 (W12) based on BS EN ISO 11731: 2017 using filtration with washing or direct plating [Matrix A & B; procedures 1,2,3 or 8,9 &10 or 11,12,13 and media C] species identification/confirmation using commercial latex agglutination kits	L, P, Y
	Aerobic colony count at 22°C and at 37°C	FNES58 (W4) based on Microbiology of Drinking Water Part 7, 2020 using pour plates	L, P, Y
Recreational and Process, including cooling towers	Aerobic colony count at 30°C	FNES58 (W4) based on Microbiology of Drinking Water Part 7, 2020 using pour plates	P
Pool waters	Aerobic colony count at 37°C for 24 hours	FNES58 (W4) In-house method using YEA incubated at 37°C for 24 hours	L, P, Y
	Coliform and <i>Escherichia coli</i> presumptive and confirmed	1) FNES39 (W2) based on Microbiology of Drinking Water Part 4, 2016, using membrane filtration and MLSB	L, P, Y
(excluding Saline)		2) FNES50 (W18) MPN based on Microbiology of Drinking Water Part 4, 2016, using IDEXX (Colilert 18) Quanti-tray™	L, P, Y



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WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground and surface (unless specified) (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration: Enterococci, presumptive and confirmed <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i>	Documented In-house Methods FNES23 (W3) based on Microbiology of Drinking Water Part 5, 2012 FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing Or by MALDI TOF MS using FNES93 (M7) FNES36 (W10) using membrane filtration	L, P, Y L
Bottled water only	Sulphite reducing clostridia <i>Clostridium perfringens</i> ,	FNES60 (W5a) based on Microbiology of Drinking Water Part 6, 2021 FNES59 (W5) based on Microbiology of Drinking Water Part 6, 2021	L L, P, Y
HEALTHCARE WATERS	Detection: <i>Mycobacterium</i> spp	FNES150.01 Detection of Mycobacterium species in heater cooler unit waters using BD BACTEC MGIT 960 system	L
Heater Cooler Waters			



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HEALTHCARE WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
Endoscope Washer Disinfector Rinse Waters	Enumeration: (cont'd) Viable Mesophilic Bacteria (Aerobic Colony Count)	FNES10 (W22) using membrane filtration and TSA at 30°C for 5 days in accordance with HTM 01-06 Part E 2016 With optional identification of <i>Ps aeruginosa</i> by Milk Cetrimide and oxidase or MALDI TOF MS using FNES93 (M7)	L, P, Y P
RO Fluids and Ultrapure Dialysis Fluids	Viable Mesophilic Bacteria (Aerobic Colony Count)	FNES69 (W22A) based on BS EN ISO 23500:2019 (Part 3 and Part 5), using membrane filtration and TGEA incubated at 21°C for 7 days	Y
Endoscopy washer disinfector rinse waters and other instrument rinse fluids	Environmental, rapid-growing presumptive <i>Mycobacterium</i> spp	FNES30 (W23) using membrane filtration and Middlebrook 7H11 agar incubated at 30°C for 7 days and Ziehl-Neelsen's acid fast confirmatory stain	L
	<i>Pseudomonas aeruginosa</i>	FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing Or by MALDI TOF MS using FNES93 (M7)	L, P, Y P



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FOOD and FOOD PRODUCTS, WATERS and ENVIRONMENTAL SAMPLES, unless specified	<u>Molecular Tests</u> Detection:	Documented In-house Methods	
FOOD and FOOD PRODUCTS (excluding frozen foods and fresh leaves/vegetable of low surface moisture) and environmental samples	<i>Salmonella</i> DNA	FNES16 (F13) using primary enrichment in Buffered Peptone Water with FNES42 (M1) automated Maxwell extraction and FNES43 (M2) subsequent real time PCR with confirmation using Biochemical including API20E / Serological testing	L
FOOD and FOOD PRODUCTS and ENVIRONMENTAL SAMPLES (Location Y: Waters)	<i>Salmonella</i> DNA	FNES16 (F13) using primary enrichment in Buffered Peptone Water with FNES88 (M11) automated Qiagen EZ1 Advanced XL extraction and FNES43 (M2), subsequent real time PCR	P, Y
FOOD and FOOD PRODUCTS, WATERS, including irrigation waters, and ENVIRONMENTAL SAMPLES	Shiga toxin producing E.coli (STEC) DNA detection for stx, eae and O157 gene sequences (presumptive and confirmed)	FNES144 (M14) based on ISO/TS 13136:2012 using SureTect STEC O157 and STEC screening PCR assay with automated Applied Biosystems SimpliAmp extraction (FNES123 (M12)) and QuantStudio5 real-time PCR (FNES122 (M13)) Confirmation by culture	L, P, Y
END			