


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1645</b> Accredited to ISO/IEC 17025:2017	<b>UK Health Security Agency, Food, Water and Environmental Microbiology Services</b>	
	Issue No: 051    Issue date: 30 May 2024	
	61 Colindale Avenue London NW9 5HT	Contact: Renata Szypulska / Caroline Weller Tel: +44 (0) 208 3276549 / 208 3276530 / 0207 123 3687 Email: <a href="mailto:FWElabs@ukhsa.gov.uk">FWElabs@ukhsa.gov.uk</a> Website: <a href="http://www.gov.uk/government/collections/food-water-and-environmental-laboratories">www.gov.uk/government/collections/food-water-and-environmental-laboratories</a>

**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
<b>Address</b> 61 Colindale Avenue London NW9 5HT	<b>Local contact</b> Dr Sandra Lai Tel: +44 (0)20 8327 6548/6550/6551 E-Mail: <a href="mailto:fwem@ukhsa.gov.uk">fwem@ukhsa.gov.uk</a>	Microbiological Molecular L
<b>Address</b> Porton Down Salisbury Wiltshire SP4 0JG	<b>Local contact</b> Dr Caroline Willis Tel: +44 (0) 1980 616766 E-Mail: <a href="mailto:Caroline.Willis@uksha.gov.uk">Caroline.Willis@uksha.gov.uk</a>	Chemical Microbiological Molecular P
<b>Address</b> Block 10 York Biotech Campus Sand Hutton York YO41 1LZ	<b>Local contact</b> Dr Heather Aird Tel: +44 (0) 1904468948 E-Mail: <a href="mailto:Heather.Aird@uksha.gov.uk">Heather.Aird@uksha.gov.uk</a>	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 <sup>th</sup> 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 MALDI TOF MS using method FNES93 (M7)	L, P, Y
	<i>Salmonella</i> spp, including serological identification to group level	Optional confirmation by biochemical tests using either Biomerieux API or Microgen - Listeria gallery	L, P, Y
	Enumeration:	Optional confirmation by DNA detection using real-time PCR using method FNES44 (M3)	L, Y
	Aerobic colony count at 30°C	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
		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> , $\beta$ -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 ± 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths(cont'd)	<u>Microbiological Tests</u> (cont'd)  Enumeration: (cont'd)  <i>Listeria</i> spp and <i>Listeria monocytogenes</i> (including identification)	Documented In-house Methods  FNES22 (F19) based on ISO 11290-2: 2017 and confirmation by MALDI TOF MS using method FNES93 (M7)  Optional biochemical confirmation using Biomerieux API or Microgen - Listeria gallery	L, P, Y  L, P, Y
	Coagulase positive Staphylococci	Optional confirmation by DNA detection real-time PCR using method FNES44 (M3)  FNES8 (F12) based on BS EN ISO 6888-1:2021 using confirmation by DNase, latex agglutination and tube coagulase	L, Y  P, Y
FOOD and FOOD PRODUCTS, general unless specified	<u>Microbiological Tests</u>  Detection:  <i>Campylobacter</i> spp	Documented In-house Methods  FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Confirmation biochemical/serological confirmation for <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, Y  L, P, Y
Baby and infant milks, milk formulae and related products (powdered or liquid)	Presumptive <i>Cronobacter</i> spp	FLOS43 based on BS EN ISO 22964:2017	L



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FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house Methods	
	Detection: (cont'd)		
	<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 MALDI TOF MS using method FNES93 (M7) POR/M7	L, P, Y
	Optional 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	
<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 using Biomerieux API20E/serological	L, P, Y	
	Optional confirmation by real-time PCR using method FNES44 (M3)	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	
Baby and infant milks, milk formulae and related products (powdered or liquid)	Detection (cont'd)  Enterobacteriaceae, presumptive and confirmed	FNES31 (F18) by MPN based on BS EN ISO 21528-1:2017	L
Fish and Shellfish	<i>Vibrio</i> spp	FNES84 In-house method enrichment in alkaline peptone water and sub-cultured to TCBS agar	L
	Enumeration:  Aerobic colony count	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
(Location Y: Raw milks only)		2) FNES40 (F9) based on BS EN ISO 4833-1:2013+A1:2022	P, Y
	<i>Bacillus cereus</i> , presumptive (and/or <i>Bacillus</i> spp recovered)	FNES9 (F15) based on BS EN ISO 7932:2004+A1:2020	L, P, Y
(Location Y: Chicken neck skins only)	<i>Campylobacter</i> spp	FNES15 (F21) based on BS EN ISO 10272-2:2017	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
	<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





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<p>FOOD and FOOD PRODUCTS, general unless specified (cont'd)</p> <p>(Excluding chocolate, milk and coloured dried herbs and spices) (Location P: includes milk products)</p> <p>(Location L: dried and frozen products only)</p> <p>(Excludes dried foods and brine)</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Enumeration: (cont'd)</p> <p>Enterobacteriaceae</p> <p><i>Escherichia coli</i>, β-glucuronidase positive</p>	<p>Documented In-house Methods</p> <p>FNES72 (F38) In-house method using MPN TEMPO method</p> <p>1) FNES3 (F8) based on BS ISO 16649-2:2001</p> <p>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</p> <p>3) FNES28 (F22) by MPN, based on BS EN ISO 16649-3: 2015</p> <p>4) FNES131 using MPN TEMPO method</p>	<p>L, P, Y</p> <p>Y</p> <p>L, P</p> <p>L, P, Y</p> <p>P</p>
<p>MILK AND DAIRY PRODUCTS</p>	<p>Enumeration:</p> <p>Coliforms, confirmed</p> <p>Enterobacteriaceae, presumptive and confirmed</p>	<p>FNES41 (D4) based on BS EN ISO 4832:2006</p> <p>FNES13 (F23) based on BS EN ISO 21528-2:2017</p>	<p>L, P, Y</p> <p>L, P, Y</p>
<p>SHELLFISH</p> <p>Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams)</p>	<p><i>Escherichia coli</i> β-glucuronidase positive</p>	<p>FNES48 (F16) by MPN based on BS EN ISO 16649-3: 2015 and in accordance with CEFAS Generic Protocol, issue 15</p>	<p>L, P, Y</p>



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FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests</u> (cont'd)  Enumeration: (cont'd)  <i>Listeria</i> spp and <i>Listeria monocytogenes</i>    Coagulase positive staphylococci including <i>Staphylococcus aureus</i>	Documented In-house Methods   FNES22 (F19) based on BS EN ISO 11290-2:2017 with confirmation by biochemical tests using either Biomerieux API or Microgen - Listeria gallery  Optional confirmation by real-time PCR using method FNES44 (M3)  Optional confirmation by MALDI TOF MS using method FNES93 (M7)  FNES8 (F12) based on BS EN ISO 6888-1:2021. Confirmation by DNase, Latex agglutination and tube coagulase test	L, P, Y          L, Y   P    L, P, Y
WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground, and surface (unless specified)    WATERS, drinking, domestic services, recreational, pool, process, cooling towers	<u>Microbiological Tests</u> (cont'd)  Detection:  <i>Escherichia coli</i> O157   Enumeration:  <i>Legionella</i> spp and <i>Legionella pneumophila</i> , SG1 and SG 2-14	FNES34 (W16) based on the Microbiology of Drinking Water Part 4F, 2016    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, Y          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:  Aerobic colony count at 22°C and at 37°C	Documented In-house Methods  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
(excluding Saline)	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
		2) FNES50 (W18) MPN based on Microbiology of Drinking Water Part 4, 2016, using IDEXX (Colilert 18) Quanti-tray™	L, P, Y
	Enterococci, presumptive and confirmed	FNES23 (W3) based on Microbiology of Drinking Water Part 5, 2012	L, P, Y
	<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
	<i>Staphylococcus aureus</i>	FNES36 (W10) using membrane filtration	L



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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)	Documented In-house Methods	
Bottled water only	Enumeration:  Sulphite reducing clostridia	FNES60 (W5a) based on Microbiology of Drinking Water Part 6, 2021	L
	<i>Clostridium perfringens</i> ,	FNES59 (W5) based on Microbiology of Drinking Water Part 6, 2021	L, P, Y
HEALTHCARE WATERS	Detection:		
Heater Cooler Waters	<i>Mycobacterium</i> spp	FNES150.01 Detection of Mycobacterium species in heater cooler unit waters using BD BACTEC MGIT 960 system	L
	Enumeration:		
Endoscope Washer Disinfectant Rinse Waters	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 disinfectant 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



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HEALTHCARE WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)  Enumeration:  <i>Pseudomonas aeruginosa</i>	Documented In-house Methods  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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<p>FOOD and FOOD PRODUCTS, and ENVIRONMENTAL SAMPLES, unless specified</p> <p>(excluding frozen foods and fresh leaves/vegetable of low surface moisture)</p> <p>(includes Waters at location Y)</p>	<p><u>Molecular Tests</u></p> <p>Detection:</p> <p><i>Salmonella</i> DNA</p> <p><i>Salmonella</i> DNA</p> <p>Named <i>Salmonella</i> species, <i>S. Typhimurium</i> and <i>S. Enteritidis</i> DNA</p>	<p>Documented In-house Methods</p> <p>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</p> <p>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> <p>FNES153 (M15) using primary enrichment or secondary enrichment as described in FNES16 (F13) or FNES77 (W7) with SimpliAmp extraction using FNES123 (M12) and PCR using Quantstudio™5 with FNES122 (M13)</p>	<p>L</p> <p>P, Y</p> <p>L, P, Y</p>
<p>Presumptive <i>Salmonella</i> isolates</p>	<p>Confirmation of <i>Salmonella</i> species, <i>S. Typhimurium</i> and <i>S. Enteritidis</i> DNA</p>	<p>FNES153 (M15) real-time PCR</p>	<p>L, P, Y</p>
<p>FOOD and FOOD PRODUCTS, WATERS, including irrigation waters, and ENVIRONMENTAL SAMPLES</p>	<p>Shiga toxin producing <i>E. coli</i> (STEC) DNA detection for stx, eae and O157 gene sequences (presumptive and confirmed)</p>	<p>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</p>	<p>L, P, Y</p>
END			