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United Kingdom Accreditation Service

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

 1645 Accredited to ISO/IEC 17025:2017	UK Health Security Agency, Food, Water and Environmental Microbiology Services	
	Issue No: 042 Issue date: 17 August 2022	
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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@phe.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@phe.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@phe.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 Exposed settle plates, or plates from air samplers (incubated and enumerated as received)	<u>Microbiological Tests</u> Enumeration: Airborne microbial load (aerobic colony count and moulds)	Documented In-house Methods POR/EM1 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 Knisely R.F. Journal of Bacteriology, 1966	Y
ENVIRONMENTAL SAMPLES Including swabs, cleaning cloths and container rinses	<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>Escherichia coli</i> O157	FNES25 (F17) In-house method using Immunomagnetic separation and CT-SMAC agar. Confirmation by latex agglutination and Biomerieux API20E 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)	L, P P



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ENVIRONMENTAL SAMPLES Including swabs, cleaning cloths and container rinses, unless specified (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-house Methods	
	<u>Detection: (cont'd)</u>		
	<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 Optional confirmation by DNA detection using real-time PCR using method FNES44 (M3)	L, P, Y L, Y
	<i>Salmonella</i> spp, including serological identification to group level	Optional confirmation by MALDI TOF MS using method FNES93 (M7) 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)	P 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 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	L, P, Y P



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ENVIRONMENTAL SAMPLES Including swabs, cleaning cloths and container rinses, unless specified (cont'd) (Location Y: Packaging swabs only)	<u>Microbiological Tests (cont'd)</u> 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 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 L, P, Y L, P, Y Y L, P P



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



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FOOD and FOOD PRODUCTS, general unless specified (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-house Methods	
	Detection: (cont'd)		
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
	<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 (cont'd)</u>	Documented In-house Methods	
	Detection (cont'd)		
	<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
	Detection and Enumeration:		
	<i>Vibrio</i> spp	FLOS67 In-house method enrichment in alkaline peptone water and sub-cultured to TCBS agar	L
	Enumeration:		
(Location Y: Raw milks only)	Aerobic colony count	1) FNES14 (F10) In-house Method based on based on BS EN ISO 4833-2: 2013 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	P, Y
(Location Y: Chicken neck skins only)	<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
	<i>Campylobacter</i> spp	FNES15 (F21) based on BS EN ISO 10272-2:2017	L, P, Y
	<i>Clostridium perfringens</i>	FNES11 (F14) based on BS EN ISO 7937:2004	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 (cont'd)</u></p> <p>Enumeration: (cont'd)</p> <p>Enterobacteriaceae, presumptive and confirmed</p> <p>Enterobacteriaceae</p> <p><i>Escherichia coli</i>, β-glucuronidase positive</p>	<p>Documented In-house Methods</p> <p>FNES13 (F23) based on BS EN ISO 21528-2:2017</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) POR/F32a using MPN TEMPO method</p>	<p>L, P, Y</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>Baby and infant milks, milk formulae and related products (powdered or liquid)</p>	<p>Enumeration:</p> <p>Coliforms, confirmed</p> <p>Enterobacteriaceae, presumptive and confirmed</p> <p>Enterobacteriaceae, presumptive and confirmed</p>	<p>Documented In-house Methods</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>FNES31 (F18) by MPN based on BS EN ISO 21528-1:2017</p>	<p>L, P, Y</p> <p>L, P, Y</p> <p>L</p>



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FOOD and FOOD PRODUCTS, general unless specified (cont'd) SHELLFISH Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams)	<u>Microbiological Tests (cont'd)</u> Enumeration: (cont'd) <i>Escherichia coli</i> β-glucuronidase positive <i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Documented In-house Methods FNES48 (F16) by MPN based on BS EN ISO 16649-3: 2015 and in accordance with CEFAS Generic Protocol, issue 15 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 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
	Yeasts and Moulds at 25 °C	FNES62 (F32) In-house method using DRBC Agar	L



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WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground, and surface (unless specified)	<u>Microbiological Tests (cont'd)</u>	Documented In-house Methods	
	Detection: <i>Campylobacter</i> spp	FNES52 (W8), FW&E Standard Method. In-house method with enrichment in Bolton or Preston broth and plating onto mCCDA. Confirmation by biochemical/serological confirmation for <i>Campylobacter</i> spp	L
	<i>Escherichia coli</i> O157	FNES34 (W16) based on the Microbiology of Drinking Water Part 4F, 2016	L, Y
	<i>Salmonella</i> spp	FNES77 (W7) based on Microbiology of Recreational Water Part 8, 2016	L
	Detection and Enumeration: <i>Legionella</i> spp and <i>Legionella pneumophila</i> , SG1 and SG 2-15	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]	L, P
<i>Legionella</i> spp and <i>Legionella pneumophila</i> , SG1 and SG 2-15	FNES24 (W12) based on BS 6068-4.12:1998 / ISO 11731:1998 (withdrawn)	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 (cont'd)</u>	Documented In-house Methods	
	<u>Enumeration:</u>		
	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
	Aerobic colony count at 30°C	FLOS59 (F7316) using YEA incubated at 30°C for 48 hours	L
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
	Enterococci, presumptive and confirmed	FNES23 (W3) based on Microbiology of Drinking Water Part 5, 2012	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 (cont'd)</u>	Documented In-house Methods	
	Enumeration: (cont'd)		
	<i>Pseudomonas aeruginosa</i>	FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing	L, P, Y
	<i>Staphylococcus aureus</i>	Or by MALDI TOF MS using FNES93 (M7)	P
	Sulphite reducing clostridia	FNES36 (W10) using membrane filtration	L
	<i>Clostridium perfringens,</i>	FNES60 (W5a) based on Microbiology of Drinking Water Part 6, 2021	L
		FNES59 (W5) based on Microbiology of Drinking Water Part 6, 2021	L, P, Y
HEALTHCARE WATERS			
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



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<p>HEALTHCARE WATERS (cont'd)</p> <p>Endoscopy washer disinfectant rinse waters and other instrument rinse fluids</p>	<p><u>Microbiological Tests (cont'd)</u></p> <p>Enumeration: (cont'd)</p> <p>Environmental, rapid-growing presumptive <i>Mycobacterium</i> spp</p> <p><i>Pseudomonas aeruginosa</i></p>	<p>Documented In-house Methods</p> <p>FNES30 (W23) using membrane filtration and Middlebrook 7H11 agar incubated at 30°C for 7 days and Ziehl-Neelsen's acid fast confirmatory stain</p> <p>FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing</p> <p>Or by MALDI TOF MS using FNES93 (M7)</p>	<p>L</p> <p>L, P, Y</p> <p>P</p>
<p>FOOD and FOOD PRODUCTS, WATERS and ENVIRONMENTAL SAMPLES, unless specified</p> <p>FOOD and FOOD PRODUCTS (excluding frozen foods and fresh leaves/vegetable of low surface moisture) and environmental samples</p> <p>FOOD and FOOD PRODUCTS and ENVIRONMENTAL SAMPLES (Location Y: Waters)</p>	<p><u>Molecular Tests</u></p> <p>Detection:</p> <p><i>Salmonella</i> DNA</p> <p><i>Salmonella</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>L</p> <p>P, Y</p>



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<p>FOOD and FOOD PRODUCTS, WATERS and ENVIRONMENTAL SAMPLES, unless specified (cont'd)</p> <p>FOOD and FOOD PRODUCTS, WATERS, including irrigation waters, and ENVIRONMENTAL SAMPLES</p>	<p><u>Molecular Tests (cont'd)</u></p> <p>Detection: (cont'd)</p> <p>Shiga toxin producing E.coli (STEC) DNA detection for stx, eae and O157 gene sequences (presumptive and confirmed)</p>	<p>Documented In-house Methods</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>	L,P,Y
END			