Schedule of Accreditation

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

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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 5EQ	**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 616775 E-Mail: Caroline.Willis@ukhsa.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@ukhsa.gov.uk	Chemical Microbiological Molecular	Y

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	Chemistry Tests	Documented In-House Method:	
Milk and Dairy Products	Determination of alkaline phosphatase activity	FNED142 BS EN ISO 11816-1:2024	P, Y
Food and Food Products	Water activity	FNES67 (P1) based on BS EN ISO 18787:2017	Y
ANIMAL FEEDS	Microbiological Tests	Documented In-house Methods	
	Detection:		
Pet Food and Dog Chews	*Salmonella* 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 European Assimilated Law (EU) No 142/2011	L
	Enumeration:		
Dried Pet Food and Dog Chews	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 European Assimilated Law (EU) No 142/2011	L

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES	Microbiological Tests (cont'd)	Documented In-house Methods	
	Enumeration:		
Exposed settle plates, or plates from air samplers (incubated and enumerated as received)	Airborne microbial load (aerobic colony count and moulds)	FNES143 following sampling using an MAS-100 + Tryptone Soya Agar incubated at 37°C for 48h and DRBC plates incubated at 25°C for 120h	P
	Detection:		
Animal hair, wool, soil and environmental samples	*Bacillus anthracis* (anthrax spores), confirmed	FNES121 Documented In-house Method based on Anthrax in humans and animals, 4th Ed, World Health Organization 2008	Y
ENVIRONMENTAL SAMPLES Including swabs and cleaning cloths	*Campylobacter* spp	FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Biochemical/physiological Confirmation for *Campylobacter* spp.	L, P
		or	
		Optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93 (M7)	L, P, Y
	Escherichia coli 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 *E. coli* O157:H7 and characterised by DNA detection using real-time PCR using method FNES44 (M3)	P

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)	Microbiological Tests (cont'd)	Documented In-house Methods	
	Detection: (cont'd)		
	Listeria spp and *Listeria monocytogenes* (including identification)	FNES22 (F19) based on ISO 11290-1:2017 with confirmation by MALDI TOF MS using method FNES93 (M7)	L, P, Y
		Optional confirmation by biochemical tests using Biomerieux API	L, P, Y
	Salmonella spp	FNES16 (F13) based on BS EN ISO 6579-1:2017+A1:2020 with confirmation by Biochemical tests including Biomerieux API20E /serological confirmations	L, P, Y
		Optional confirmation by real-time PCR using method FNES153 (M15)	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

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)	Microbiological Tests (cont'd) Enumeration: (cont'd)	Documented In-house Methods	
	Presumptive and confirmed *Bacillus cereus* (and *Bacillus* spp recovered)	FNES9 (F15) based on BS EN ISO 7932:2004+A1:2020	P
(Location Y: Packaging swabs only)	*Campylobacter* spp	FNES15 (F21) based on BS EN ISO 10272-2: 2017+A1:2023	P, Y
		Optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93	P, Y
	Clostridium perfringens	FNES11 (F14) based on BS EN ISO 15213-2:2023 with in-house confirmation by MALDI TOF MS using method FNES93 or Optional biochemical test using SIM agar	P
	Enterobacteriaceae, presumptive and confirmed	1) FNES13 (F23) based on ISO 21528-2:2017	L, P, Y
		2) FNES72 (F38) In-house method using MPN TEMPO	L, P, Y
	Escherichia coli, *β*-glucuronidase positive	1) FNES3 (F8) based on BS EN ISO 16649-2:2001	Y
		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.	L, P
		3) FNES131using MPN TEMPO method	P

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)	Microbiological Tests (cont'd)	Documented In-house Methods	
	Enumeration: (cont'd)		
	Listeria spp and *Listeria monocytogenes* (including identification)	FNES22 (F19) based on ISO 11290-2: 2017 and confirmation by MALDI TOF MS using method FNES93 (M7)	L, P,
		Optional biochemical confirmation using Biomerieux API	L, P,
	Coagulase positive Staphylococci	FNES8 (F12) based on BS EN ISO 6888-1:2021+A1:2023 using confirmation by DNase, latex agglutination and tube coagulase	P, Y
FOOD and FOOD PRODUCTS, general unless specified	* indicates examination performed under Food Standards Agency designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625		
	Detection:		
	**Campylobacter* spp	FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Biochemical/physiological Confirmation for *Campylobacter* spp. or	L, P, Y
		Optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93 (M7)	L, P, Y
Baby and infant milks, milk formulae and related products (powdered or liquid)	*Presumptive *Cronobacter* spp	FNES105 based on BS EN ISO 22964:2017	L

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, general unless specified (cont'd)	Microbiological Tests (cont'd) Detection: (cont'd)	Documented In-house Methods	
	**Escherichia coli* 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 *E. coli* O157:H7 sby DNA detection using manual extraction and real-time PCR using method FNES44 (M3)	P
	**Listeria* spp and *Listeria monocytogenes* (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 Biomerieux API	L, P, Y
	**Salmonella* spp	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 FNES153 (M15)	L, P, Y
Baby and infant milks, milk formulae and related products (powdered or liquid)	*Enterobacteriaceae, presumptive and confirmed	FNES31 (F18) by based on BS EN ISO 21528-1:2017	L
Fish and Shellfish	*Vibrio* spp	FNES84 In-house method enrichment in alkaline peptone water and sub-cultured to TCBS agar	L

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, general unless specified (cont'd)	Microbiological Tests (cont'd) Enumeration:	Documented In-house Methods	
	*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
	**Bacillus cereus,* presumptive (and/or *Bacillus* spp recovered)	FNES9 (F15) based on BS EN ISO 7932:2004+A1:2020	L, P, Y
Raw chicken and neck skins (Location Y&P: Chicken neck skins only)	**Campylobacter* spp	FNES15 (F21) based on BS EN ISO 10272-2:2017+A1:2023	L, P, Y
		Optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93	L, P, Y
	**Clostridium perfringens*	FNES11 (F14) based on BS EN 15213-2:2023 with in-house confirmation by MALDI TOF using method FNES93 Or optional biochemical test method FNES93 usiing SIM agar	L, P, Y
	*Enterobacteriaceae, presumptive and confirmed	FNES13 (F23) based on BS EN ISO 21528-2:2017	L, P, Y

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, general unless specified (cont'd)	Microbiological Tests (cont'd) Enumeration: (cont'd)	Documented In-house Methods	
(Excluding chocolate, and coloured dried herbs and spices) (Location P: includes milk products) (Location L, Y: Excludes milk) (Location Y: Excludes dairy)	*Enterobacteriaceae	FNES72 (F38) In-house method using MPN TEMPO method	L, P, Y
	**Escherichia coli*, 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
SHELLFISH Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams)	**Escherichia coli* β-glucuronidase positive	FNES48 (F16) by MPN based on BS EN ISO 16649-3: 2015 and in accordance with CEFAS Generic Protocol, issue 17 dated March 2024	L, P Y

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, general unless specified (cont'd)	Microbiological Tests (cont'd) Enumeration: (cont'd)	Documented In-house Methods	
SHELLFISH Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams)	**Escherichia coli* β-glucuronidase positive	FNES109 (F16a), colony count technique based on BS EN ISO 16649-2:2001 and in accordance with CEFAS Colony Count Generic Protocol, issue 01 dated March 2024	L, P Y
	**Listeria* spp and *Listeria monocytogenes*	FNES22 (F19) based on BS EN ISO 11290-2:2017 with confirmation by MALDI TOF MS using method FNES93 (M7)	L, P, Y
		Optional confirmation by biochemical tests using Biomerieux API	L, P, Y
	*Coagulase positive staphylococci including *Staphylococcus aureus*	FNES8 (F12) based on BS EN ISO 6888-1:2021+A1:2023 . Confirmation by DNase, Latex agglutination and tube coagulase test	L, P, Y
WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground, and surface (unless specified)	Detection:		
	Escherichia coli O157	FNES34 (W16) based on the Microbiology of Drinking Water Part 4F, 2016	L, Y

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Microbiological Tests (cont'd) Enumeration:	Documented In-house Methods	
WATERS, drinking, domestic services, recreational, pool, process, cooling towers	*Legionella* spp and *Legionella pneumophila,* 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
	* indicates BOTTLED WATER examination performed under Food Standards Agency designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625 Enumeration:		
WATERS, drinking, Bottled Mineral, domestic services, process, ground, and surface	*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, Y, P
Process, cooling towers	Aerobic colony count at 30°C	FNES58 (W4) based on Microbiology of Drinking Water Part 7, 2020 using pour plates	P
Pool, Bottled Mineral waters (including container 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
WATERS, drinking, Bottled Mineral, domestic services, recreational, pool, saline, process, ground and surface (unless specified)	*Coliform and *Escherichia coli* presumptive and confirmed	FNES39 (W2) based on Microbiology of Drinking Water Part 4, 2016, using membrane filtration and MLSB	L, P,

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Microbiological Tests (cont'd) Enumeration:	Documented In-house Methods	
WATERS, drinking, domestic services, recreational, pool, saline, process, ground and surface (unless specified)	Coliform and *Escherichia coli* presumptive and confirmed	FNES39 (W2) based on Microbiology of Drinking Water Part 4, 2016, using membrane filtration and MLSB	Y
WATERS, drinking, domestic services, recreational, pool, saline, process, ground and surface (unless specified) (excluding Saline)		FNES50 (W18) MPN based on Microbiology of Drinking Water Part 4, 2016, using IDEXX (Colilert 18) Quanti-tray™	L, P, Y
WATERS, drinking, Bottled Mineral, domestic services, recreational, pool, saline, process, ground and surface (unless specified)	*Enterococci, presumptive and confirmed	FNES23 (W3) based on Microbiology of Drinking Water Part 5, 2012	L, P, Y
	**Pseudomonas aeruginosa*	FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing	L, P, Y
		Or by MALDI TOF MS using FNES93 (M7)	P
WATERS, recreational, pool,	*Staphylococcus aureus*	FNES36 (W10) using membrane filtration	L
Bottled Mineral water only	*Sulphite reducing clostridia	FNES60 (W5a) based on Microbiology of Drinking Water Part 6, 2021	L
WATERS, drinking, domestic services, recreational, pool, saline, process, , ground and surface (unless specified)	*Clostridium perfringens,*	FNES59 (W5) based on Microbiology of Drinking Water Part 6, 2021 with in-house confirmation by MALDI TOF MS using Method FNES93 (M7) or Optional biochemical test method FNES93 usiing SIM agar	L, P, Y

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HEALTHCARE WATERS	Detection:		
Heater Cooler Waters	*Mycobacterium* spp	FNES150.01 Detection of Mycobacterium species in heater cooler unit waters using BD BACTEC MGIT 960 system	L
	Enumeration:		
Endoscope Washer Disinfector 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	L, P, Y
		With optional identification of *Ps aeruginosa* by Milk Cetrimide and oxidase or MALDI TOF MS using FNES93 (M7)	P
RO Fluids and Ultrapure Dialysis Fluids	Viable Mesophilic Bacteria (Aerobic Colony Count)	FNES69 (W22A) based on BS EN ISO 23500:2024 (Part 3 and Part 5), using membrane filtration and TGEA incubated at 21°C for 7 days	Y
	Pseudomonas aeruginosa	FNES12 (W6) based on Microbiology of Drinking Water Part 8, 2015 confirmation by Milk cetrimide agar and oxidase testing	L, P, Y
		Or by MALDI TOF MS using FNES93 (M7)	P

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, and ENVIRONMENTAL SAMPLES, unless specified	<u>Molecular Tests</u> * indicates SPROUTS examination performed under Food Standards Agency designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625 Detection:	Documented In-house Methods	
	**Salmonella* species, *S*. Typhimurium and *S*. Enteritidis DNA	FNES153 (M15) using primary enrichment or secondary enrichment as described in FNES16 (F13) with SimpliAmp extraction using FNES123 (M12) and PCR using Quantstudio™5 with FNES122 (M13) with culture confirmation of presumptive positives by FNES16 (F13)	L, 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			