# Schedule of Accreditation

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# United Kingdom Accreditation Service

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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**<br>61 Colindale Avenue<br>London<br>NW9 5EQ | **Local contact**<br>Dr Sandra Lai<br>Tel: +44 (0)20 8327 6548/6550/6551<br>E-Mail: fwem@ukhsa.gov.uk | Microbiological<br>Molecular | L |
| **Address**<br>Porton Down<br>Salisbury<br>Wiltshire<br>SP4 0JG | **Local contact**<br>Dr Caroline Willis<br>Tel: +44 (0) 1980 616766<br>E-Mail: Caroline.Willis@ukhsa.gov.uk | Chemical<br>Microbiological<br>Molecular | P |
| **Address**<br>Block 10<br>York Biotech Campus<br>Sand Hutton<br>York<br>YO41 1LZ | **Local contact**<br>Dr Heather Aird<br>Tel: +44 (0) 1904468948<br>E-Mail: Heather.Aird@ukhsa.gov.uk | Chemical<br>Microbiological<br>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 Regulation (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 Regulation (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 and DRBC plates | 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. Confirmation and optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93 | L, P |
| | *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 as VT1 and/ or VT2 gene positive 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<br>Including swabs and cleaning cloths (cont'd) | <u>Microbiological Tests</u> (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 or 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<br>Including swabs and cleaning cloths (cont'd) | Microbiological Tests (cont'd)<br><br>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 or optional biochemical use of SIM agar using method FNES93 | 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<br>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 | Microbiological Tests | Documented In-house Methods | |
| | Detection: | | |
| | *Campylobacter* spp | FNES15 (F21) In-house method with enrichment in Bolton broth and plating onto mCCDA. Confirmation biochemical/serological confirmation for *Campylobacter* spp. | L, P, Y |
| | | Optional identification for *C. jejuni*, *C. lari* and *C. coli* only by MALDI TOF MS using method FNES93 | 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)<br><br>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 and characterised as VT1 and/ or VT2 gene positive by 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 |

| 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)<br>Detection (cont'd) | Documented In-house Methods | |
| 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 |
| | Detection and Enumeration: | | |
| Fish and Shellfish | *Vibrio* 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 |
| | *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 MS or optional biochemical use of SIM agar using method FNES93 | 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)<br><br>Enumeration: (cont'd) | Documented In-house Methods | |
| | 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 |
| | *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<br>Raw molluscan shellfish (clams, cockles, mussels, oysters, scallops and razor clams) | *Escherichia coli*<br>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) | Documented In-house Methods | |
| | Enumeration: (cont'd) | | |
| | *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 |
| | Microbiological Tests | | |
| | Detection: | | |
| WATERS, drinking, domestic services, recreational, pool, saline, process, cooling towers, ground, and surface (unless specified) | *Escherichia coli* O157 | FNES34 (W16) based on the Microbiology of Drinking Water Part 4F, 2016 | L, Y |
| | Enumeration: | | |
| 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 |

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| | Microbiological Tests (cont'd)<br><br>Enumeration: | Documented In-house Methods | |
| 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 |
| WATERS, drinking, Bottled Mineral, domestic services, process, cooling towers, 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 | 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 domestic container servers) 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 | 1) FNES39 (W2) based on Microbiology of Drinking Water Part 4, 2016, using membrane filtration and MLSB | L, P, Y |
| WATERS, drinking, domestic services, recreational, pool, saline, process, ground and surface (unless specified) (excluding Saline) | | 2) 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 | Enterococci, presumptive and confirmed | FNES23 (W3) based on Microbiology of Drinking Water Part 5, 2012 | L, P, Y |

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| | Microbiological Tests (cont'd) | Documented In-house Methods | |
| | Enumeration: | | |
| WATERS, drinking, Bottled Mineral, domestic services, recreational, pool, saline, process, ground and surface | *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 or optional biochemical use of SIM agar using method FNES93 | L, P, Y |
| 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 |

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| HEALTHCARE WATERS (cont'd) | Microbiological Tests (cont'd)<br><br>Enumeration: | Documented In-house Methods | |
| 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><br><br>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 | | | |