Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

Eurofins Water Hygiene Testing Ltd

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address 31 Dufferin Road Belfast Northern Ireland BT3 9AA	**Local contact** Dr R Gibson Tel: +44 (028) 9035 2066 Fax: +44 (028) 9035 2161 Email: Roderick.gibson@ftuki.eurofins.com Website: www.eurofins.co.uk	Sampling Chemical testing Microbiological testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Water Related Premises	Sampling (excluding DWTS samples)	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS	Microbiological Tests	Documented In-House Methods	
	Enumeration:		
Drinking water	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 and the Private Water Supplies Regulations (Northern Ireland) 2017	Documented In-House Methods based on 'Methods for the Examination of Waters and Associated Materials' (MEWAM). In accordance with the Drinking Water Testing Specification (DWTS)	
	Coliforms, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	Escherichia coli, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	Enterococci, confirmed	TM 19 based on The Microbiology of Drinking Water, Part 5 2012, using membrane filtration	A
	Total Aerobic Colony Count at 22 °C and 37 °C	TM 20 based on BS EN ISO 6222:1999	A
	Clostridium perfringens (including spores) confirmed	TM 36 by membrane filtration based on the Microbiology of Drinking Water Part 6 2021	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Microbiological Tests (cont'd)	Documented In-House Methods	
	Enumeration: (cont'd)		
Groundwater, surface, saline, recreational, Spa and swimming pool waters, drinking water (non-regulatory)	Coliforms, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	Escherichia coli, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	Enterococci, confirmed	TM 19 based on The Microbiology of Drinking Water, Part 5 2012, using membrane filtration	A
	Total Aerobic Colony Count at 22 °C and 37 °C	TM 20 based on BS EN ISO 6222:1999	A
	Clostridium perfringens (including spores) confirmed	TM 36 by membrane filtration based on the Microbiology of Drinking Water Part 6 2021	A
Saline, Recreational, Surface and Treated Sewage water	β-glucuronidase positive *Escherichia coli*	TM 117 based on the Microbiology of Recreational and Environmental Waters, Part 3 2016	A
Healthcare waters (Dialysis, ultrapure and RO water)	Bacterial Endotoxin Quantitative Detection	TM 80 Kinetic chromogenic method using Endosafe PTS 1000 or Endosafe Nexgen-MCS readers	A
Drinking, Healthcare waters (Reverse Osmosis and Endoscope final rinse water), Recreational waters (Spa, swimming pool, fountains)	*Pseudomonas aeruginosa*	TM 35 based on The Microbiology of Drinking Water, Part 8 2015, using membrane filtration	A
Drinking and process water (closed heating and cooling systems)	*Pseudomonas* species.	TM 88 by membrane filtration on CFC Agar incubated at 30°C for 48h, confirmation by oxidase reaction	A
Process waters (Closed heating and cooling systems)	Total Aerobic Colony Count 37 °C for 48 hours 22 °C for 72 hours 30 °C for 72 hours	TM 97 using Yeast extract agar	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Microbiological Tests (cont'd) Enumeration: (cont'd)	Documented In-House Methods	
Process waters (Cooling towers and Condensers)	Total Aerobic Colony Count 30 °C for 48 hours	TM 94 using Yeast extract agar	A
Drinking, Healthcare (hydrotherapy), Recreational Man-made (Spa, swimming pools, fountains), Process waters	Detection and Enumeration of *Legionella* spp, *Legionella pneumophila* serogroup 1 or serogroup 2-15 and *Legionella* spp	TM 22 based on BS EN ISO 11731:2017 Using filtration with washing, using GVPC, identification by latex agglutination (Matrices A and B: procedures 8,9 and 10 and Media C) with in-house documented confirmation procedure employing differential growth on GVPC and NA. Serotype determined by agglutination with Microgen Kit & Oxoid Latex Kit	A
Rinse waters from the washer/disinfectors	Total Aerobic Colony Count	TM 74 based on HTM01-06 (2016) Decontamination of flexible endoscopes Part E, using membrane filtration in duplicate	A
Healthcare water (Dialysis water)	Total Aerobic Colony Count (37 & 22 °C)	TM 70 using TGE agar based on BS EN ISO 23500-3:2019	A
Treated Sewage (effluent) Groundwater Surface Water	Coliforms & Escherichia coli	TM 121 based on Microbiology of Drinking Waters Part 4 (2016) and Microbiology of Recreational and Environmental Waters (2016) Part 3 Using Idexx Coliert 18	A
Treated Sewage (effluent) Groundwater Surface Water	Faecal Coliforms	TM 122 by membrane filtration Based on Standard Methods for the Examination of Water and Wastewater 24th Edition, section 9222D	A
Sewage sludge	*Salmonella* spp.	TM123 based on Microbiology of Sewage Sludge Part 4 2004	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests	Documented In-house Methods in accordance with: HTM01-01 (2016) Decontamination of surgical instruments Part C: Steam sterilisation HTM01-01 (2016) Decontamination of surgical instruments Part D: Washer-disinfectors HTM01-06 Decontamination of flexible endoscopes part E	
Healthcare water (endoscope washer disinfector waters, RO, final, clean steam condensate and other processes)	Appearance (colour and turbidity) Total Hardness Heavy metals Silicate	TM 71 using: Colourimetry and nephelometry Indicator and comparator Hach-Lange test kit Colourimetry Hach -Lange test kit	A
Healthcare water (endoscope washer disinfector waters, RO, final, clean steam condensate and other processes)	pH Conductivity Total dissolved solids	TM 51 Measurement of Electrical conductivity MEWAM:1978, Standing Committee of Analysts	A
Healthcare (RO Water and clean steam condensate)	Evaporative Residue	TM 71 based on HTM 01-01 Part D	A
Healthcare water (endoscope washer disinfector and RO water)	Fluoride, Chloride, Sulphate, Nitrate (by calculation), Total Oxidised Nitrogen (TON), Nitrite, Phosphate, Soluble Reactive Phosphorus and alkalinity	TM 112 using Thermo Scientific Discrete Auto-analyser	A
	Mercury Boron	TM108 by NexION 1000 ICP-MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-house Methods in accordance with: HTM01-01 (2016) Decontamination of surgical instruments Part C: Steam sterilisation HTM01-01 (2016) Decontamination of surgical instruments Part D: Washer-disinfectors HTM01-06 Decontamination of flexible endoscopes part E	
Healthcare water (endoscope washer, disinfector waters, RO, final, clean steam condensate)	Copper Silver Aluminium Iron Manganese Chromium Tin Selenium Antimony Lead Cadmium Thallium Sodium Calcium Magnesium Potassium Beryllium Arsenic Barium Nickel Zinc	TM107 by NexION 1000 ICP-MS	A
Healthcare (endoscope washer disinfector washer, RO, final, clean steam condensate and other processes)	True Colour	TM 62 based on Colour and Turbidity of Waters MEWAM:2017, Standing Committee of Analysts	A
	Turbidity	TM52 based on Colour and Turbidity of Waters MEWAM:2017, Standing Committee of Analysts	A
Surface and Groundwater	Nitrate (by calculation) and Total Oxidised Nitrogen (TON)	TM 112 using Thermo Scientific Discrete Auto-analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Drinking water, Surface water and Groundwater	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 and the Private Water Supplies Regulations (Northern Ireland) 2017 <u>Chemical Tests</u> (cont'd)	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
Drinking water, Surface Water and Ground water	Ammonium Ammonical-N by calculation Ammonia by calculation	TM 50 The determination of ammonium using a spectrophotometer, MEWAM:1981	A
Drinking water, Surface water and Groundwater	Conductivity	TM 51 Measurement of Electrical conductivity MEWAM:1978, Standing Committee of Analysts	A
Drinking water, Surface Water, Ground water	Turbidity	TM 52 based on Colour and Turbidity of Waters MEWAM: 2017, Standing Committee of Analysts	A
Drinking water, Surface Water, Ground water	True and Apparent Colour	TM 62 based on Colour and Turbidity of Waters MEWAM: 2017, Standing Committee of Analysts	A
Drinking Water	Fluoride, Chloride, Sulphate, Nitrate (by Calculation), Total Oxidised Nitrogen (TON), Nitrite, Phosphate, Soluble Reactive Phosphorus, Alkalinity	TM 112 using the Thermo Scientific Gallery Discrete Auto Analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Drinking water, Surface water and Groundwater	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 and the Private Water Supplies Regulations (Northern Ireland) 2017 <u>Chemical Tests</u> (cont'd)	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
Surface and Ground Waters	Fluoride, Chloride, Sulphate, Nitrite, Phosphate,Soluble Reactive Phosphorus (SRP) Alkalinity	TM 112 using the Thermo Scientific Gallery Discrete Auto Analyser	A
Drinking water, Surface water and Groundwater	Copper, Silver, Aluminium, Manganese, Iron, Chromium, Tin, Selenium, Antimony, Lead, Cadmium, Thallium, Sodium, Calcium, Magnesium, Potassium, Beryllium, Arsenic, Barium, Nickel, Zinc	TM 107 using ICP-MS NexION 1000	A
Drinking water, Surface water and Groundwater	Hydrogen Ion (pH)	TM 51 Measurement of pH by Probe	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Drinking water, Surface water and Groundwater	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 and the Private Water Supplies Regulations (Northern Ireland) 2017 <u>Chemical Tests</u> (cont'd)	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
Drinking water, Surface water and Groundwater	Mercury and Boron	TM108 using ICP-MS NexION 1000	A
Drinking water	Residual Chlorine (free and total)	TM83 using Palintest Chlorometer	A
WATERS	<u>Sampling</u>	Documented In-House Methods	
Drinking Water (non-Regulatory), and Non-Drinking Waters (Process Waters) from: Hot & Cold Water Systems Calorifiers, Storage Tanks Thermostatic Valve Taps, Mixer Taps, Showers Recreational Waters from: Spa Pools, Hydrotherapy Pools, Swimming Pools	Sampling for the purpose of facilities management for Subsequent chemical & Microbiological testing Including *Legionella*	Documented in house method SP001 based on BS 7592:2022	B
	Temperature Measurement	Using Calibrated Thermometer SP001	B
Surface Water, Treated Sewage Effluents	Spot Sampling for Subsequent chemical and microbiological testing	Documented in house method SP001	B

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