

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2279 Accredited to ISO/IEC 17025:2017	Latis Scientific Ltd	
	Issue No: 050 Issue date: 27 April 2021	
	Unit C1 Acorn Industrial Park Crayford Kent DA1 4AL	Contact: Dr Ken Scally Tel: +44 (0)20 8853 3900 Fax: +44 (0)20 8853 3907 E-Mail: ken.scally@suez.com Website: www.latisscientific.co.uk
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 Unit C1 Acorn Industrial Park Crayford Kent DA1 4AL	Dr Ken Scally Chemical and Physical Tests & Microbiological Tests	A



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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
WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods	
Raw, Drinking (Non-Regulatory) Waste Waters and Process waters (including Purified water) & Recreational waters	Permanganate Value	CHEM008 by titration	A
Raw, Drinking (Non-Regulatory) and Waste Waters	Dissolved Oxygen	CHEM009 by titration	A
Drinking (Non-Regulatory) and Process waters (including Purified water) & Recreational waters	Nitrite	CHEM027 by colorimetry	A
Raw, Drinking (Non-Regulatory) and Process waters (including Purified water) & Recreational waters	Ammonia and Albuminoids	CHEM011 by colorimetry	A
Raw, Drinking (Non-Regulatory) Waste Waters and Process waters (including Purified water)	Total Alkalinity	CHEM013 by titration	A
Raw, Drinking (Non-Regulatory) Waste Waters and Process waters (including Purified water) & Recreational waters	Total Hardness	CHEM014 by titration	A
Drinking (non-regulatory), Surface, and Process Waters, (including purified water), Trade Effluents	Suspended Solids	CHEM007 by gravimetry	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods	
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Process Water (including Purified water), Sewage and Trade Effluent & Recreational Waters	pH Conductivity	CHEM038 by automated pH and Conductivity probes	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Process Water (including Purified water) & Recreational Waters	Alkalinity (Total, hydroxide, carbonate and bicarbonate alkalinity)	CHEM038 by automated titration	A
Trade Effluent	Total Alkalinity	CHEM038 by automated titration	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Sewage and Trade Effluent and Process waters (including Purified water)	Chemical Oxygen Demand	CHEM039 by colorimetry	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Recreational Water, and Landfill Leachate The symbol * denotes accredited for Process Water (including Purified Water)	<u>Metals</u> (dissolved and total) Arsenic* Cadmium* Calcium Chromium* Copper Iron Lead* Manganese* Nickel* Potassium* Zinc	In house method CHEM017 by ICP-OES	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Recreational Water	Magnesium	In house method CHEM017 by ICP-OES	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods	
Drinking Water (Non-Regulatory), Recreational Water, Process Water (including Purified water) and Landfill Leachate	Phosphorus	In house method CHEM017 by ICP-OES	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Recreational Water, and Landfill Leachate The symbol * denotes accredited for Process Water (including Purified Water)	<u>Metals</u> (dissolved) Barium* Beryllium* Cobalt* Molybdenum Selenium* Strontium*	In house method CHEM017 by ICP-OES	A
Drinking Water (Non-Regulatory), Surface Water, Ground Water, Recreational Water, Process Water (including Purified water) and Landfill Leachate	<u>Metals</u> (total) Sodium	In house method CHEM017 by ICP-OES	A
Process Water	Molybdate	In house method CHEM022 by spectrophotometry	A
Process Water	Metals (dissolved and total) Aluminium Calcium Copper Iron Magnesium Molybdenum Zinc Total Hardness (by Calculation) Molybdate (by Calculation)	In house method CHEM052 by ICP-OES	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods	
Process Water (including Purified water), Drinking (non regulatory) and Raw Water only	Total Inorganic Phosphate	CHEM020 by Colourimetry	A
Drinking (non regulatory) and Raw Water only and Process waters (including Purified water), Recreational Water, Effluents and Sewage Effluent	<u>Anions</u> Bromide Chloride Fluoride Nitrate Nitrite Sulphate	Method CHEM028 by Ion Chromatography	A
Drinking (Non-Regulatory) Surface water Process Waters (including Purified), Recreational Water, Trade Effluents	Nitrite as NO2 Sulphate Ammonia as N	Method CHEM 059 by Colorimetry (Thermo Fisher Gallery plus Discrete Analyser)	A
Drinking (Non-Regulatory) Process Waters (including Purified), Recreational Water, Trade Effluents	Chloride	Method CHEM 059 by Colorimetry (Thermo Fisher Gallery plus Discrete Analyser)	A
Drinking water (non regulatory) Those metals marked with * are also accredited for Groundwaters	<u>Metals (dissolved and total)</u> Aluminium Arsenic* Barium Cadmium Chromium Copper Iron* Manganese* Nickel* Lead* Zinc	In house method CHEM050 by ICP-MS	A



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Documented In-House Methods	
Effluents	<u>Metals (dissolved and total)</u> Aluminium Arsenic Cadmium Cobalt Chromium Copper Iron Manganese Nickel Lead Zinc	In house method CHEM050 by ICP-MS	A
Surface Waters	<u>Metals (dissolved and total)</u> Aluminium	In house method CHEM050 by ICP-MS	A
Process Water (purified waters)	Aluminium Antimony Arsenic Barium Beryllium Cadmium Chromium Copper Lead Selenium Silver Thallium Tin Zinc	In-House Method CHEM055 by ICP-MS	A
Process Water (purified waters)	Mercury	In-House Method CHEM056 by ICP-MS	A



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WATERS (cont'd)	<u>Microbiological Tests</u>	Documented In-house methods	
	Enumeration:		
Drinking (non regulatory), Recreational, and Process Waters	<i>Clostridium perfringens</i> , confirmed	MIC006 based on The microbiology of drinking Water (2015); Part 6	A
Drinking (non regulatory), Recreational, Process and Surface Waters	Coliforms/ <i>Escherichia coli</i>	MIC009 by MPN, based on The Microbiology of Drinking Water (2016):Part 4 using Colilert	A
Drinking (non regulatory), Recreational, Process, and Surface Waters	Enterococci, confirmed	MIC008 based on The Microbiology of Drinking Water (2012); Part 5	A
Surface Water	Detection and Enumeration of Intestinal Enterococci confirmed	MIC027 based on BS EN7899-2:2000 & BS6068-4.4:2000	A
Drinking (non regulatory), Purified and Process Waters	<i>Pseudomonas aeruginosa</i> , confirmed	1) MIC007 based on The Microbiology of Drinking Water 2015, Part 8	A
Drinking (non regulatory) and Recreational Waters		2) MIC 020 by IDEXX Pseudalert MPN	A
Drinking (non regulatory), Recreational and Process Waters	<i>Pseudomonas</i> spp. confirmed	MIC 125 with confirmation by oxidase test	A
	Total Viable Count at 22°C, 30°C and 37°C	MIC001 based on The Microbiology of Drinking Water (2012); Part 7	A



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WATERS (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-house methods	
Drinking water (Non-regulatory), Process Water, Recreational Water	Isolation, Enumeration and Identification: <i>Legionella</i> species including <i>Legionella pneumophila</i> Serogroups 1-14	MIC003d based on BS ISO 11731:2017 using filtration with washing, using GVPC, Identification using latex agglutination With a theoretical LoD of 50 cfu/L [Matrix A & B; Procedure 5, 6 (back-up 7), Media C Using MIC003 centrifugation for turbid and samples with high deposit where concentration by filtration is not possible	A A
Drinking (non regulatory), Recreational and Process Waters	<i>Legionella</i> species including <i>Legionella pneumophila</i> Serogroups 1-14	MIC003 based on ISO 11731:2017 with concentration by centrifugation, identification using latex agglutination Back-up method to MIC003d for turbid and samples with high deposit where concentration by filtration is not possible.	A A
Drinking (non regulatory) Waters	<i>Legionella</i> species including <i>Legionella pneumophila</i> Serogroups 1 and 2-14	MIC003e based on ISO 11731:2017 with concentration by filtration, identification using latex agglutination With a theoretical LoD of 100 cfu/L	A
Potable (Non-Regulatory), Purified, Recreational and Process Waters (including cooling tower waters)	<i>Legionella spp including L. pneumophila</i>	Real-time qPCR using Bio-Rad Aquadien DNA extraction kit, Bio-Rad iQ0Check Screen L. pneumophila/species kit, CFX96 Thermocycler plus software [MIC033]	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-house methods	
	Enumeration:		
Purified Waters (Endoscope rinse water)	Total Viable Count at 35°C	MIC047 based on Health Technical Memorandum (HTM) 2030 1997:9.213 (withdrawn) using membrane filtration	A
Purified Waters (Endoscope rinse water)	Total Viable Count at 30°C	MIC039 based on HTM 01-06 2016 by membrane filtration	
	Enumeration:		
Purified Waters (Water for Haemodialysis)	Total Viable Count at 22°C	MIC048 based on Renal Association Guidelines 3.2 2009 and BS ISO 13959:2015 using membrane filtration	A
Purified Waters	Endotoxins	MIC017 by Endosafe MCS spectrophotometer using turbidimetric LAL assay	A
Purified Waters (Distilled, deionised, Reverse Osmosis and ion exchange)	Detection and enumeration of environmental Mycobacteria Species	MIC018a by membrane filtration on to 7H10 agar at 30C for 28 days and confirmation by ZN staining	A
ENDOSCOPE SURROGATE DEVICES & LUMENED MEDICAL DEVICES	Inoculation, recovery and enumeration of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i>	MIC029 Based on BS EN ISO 15883-4: 2018	A
CONTACT & SETTLE PLATES	Bacterial, Fungal & Total Viable Counts on TSA at 30°C for 5 days	MIC034	A
END			