Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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Accredited to ISO/IEC 17025:2017

Alpha Scientific Limited trading as ADEY

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	<u>Performance of Chemical Inhibitors</u>	
Process Water (Closed water systems)	Corrosion Testing / Scaling Tendency Testing / Compatibility with non-metallic materials	NSF InternationalChemical Inhibitor Approval Scheme (CIAS) Standard Specification : 2021
	Determination of Appearance In System Waters	Documented In House Method – ADY-SOP-OP-007
	<u>Chemical Analysis</u>	
	Dissolved Metals Li, B, Na, Mg, K, Al, Ca, Fe, Cu, Mo, Zn Molybdenum as MoO_4 (by calculation) Boron as NaB_4O_7 (by calculation)	Documented In House Method using ICP-OES- ADY-SOP-EQP-011
	Total Metals Iron Copper Aluminium Zinc	Documented in-house method using ICP-OES, ADY-SOP-EQP-032
	Alkalinity	Documented In House Method using Colormetric Measurement Alkalinity - ADY-SOP-EQP-013
	Chloride	Documented In House Method using Colormetric Measurement Chloride - ADY-SOP-EQP-012
	Turbidity	Documented in-house method ADY-SOP-EQP-022 using turbidimeter

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Analysis (cont'd)	
Process Water (Closed water systems) (cont'd)	Hardness	Documented In House Method using Colormetric Measurement Hardness - ADY-SOP-EQP-018
	Hardness (by calculation, based on Ca and Mg)	Documented in-house method ADY-SOP-EQP-011 using ICP-OES
	pH	Documented In House Method using Conductivity Meter - ADY-SOP-EQP-015
	Conductivity	Documented In House Method using Conductivity Meter - ADY-SOP-EQP-014
	Nitrite Nitrite as $NaNO_2$ (by calculation)	Documented in-house methods and colorimetric measurement ADY-SOP-EQP-016
	Ammonia Ammoniacal N as N (by calculation)	Documented in-house methods and colorimetric measurement ADY-SOP-EQP-034
	Total Dissolved Solids	Documented in--house method ADY-SOP-OP-017 using filtration
	Suspended Solids	Documented in-house method ADY-SOP-OP-016 using filtration
	Chloride Nitrate (and $NaNO_3$ by calculation) Nitrite (and $NaNO_2$ by calculation) Phosphate Sulphate	Documented in-house method ADY-SOP-EQP-045 using ion chromatography
	P&M Alkalinity, including Carbonate Bicarbonate Hydroxide Alkalinity (by calculation)	Documented in-house method ADY-SOP-EQP-047 using autotitration

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Microbiological Tests	
	Eumeration of :	
Drinking water (non-regulatory), Recreational water, Clean Process water	Total Viable Count at 22°C	ADY-SOP MM002a based on The Microbiology of Drinking Water, part 7 2020, by pour plate
	Total Viable Count at 37°C	ADY-SOP MM002b based on The Microbiology of Drinking Water, part 7 2020, by pour plate
	Total Viable Count at 30°C	ADY-SOP MM002c based on The Microbiology of Drinking Water, part 7 2020, by pour plate
	Coliforms and *Escherichia coli* (presumptive & confirmed)	ADY-SOP MM003 by IDEXX Colilert
Drinking water (non-regulatory), Process Waters (Closed water systems) and waters from swimming pools and spas	Coliforms and *Escherichia coli*	ADY-SOP MM015 and ADY-SOP MM017 based on The Microbiology of Drinking Water, part 4 2016, by membrane filtration and MLGA, confirmation by IDEXX Colilert
Drinking water (non-regulatory), Recreational water, Clean Process water	Enterococci (presumptive and confirmed)	ADY-SOP MM006 based on The Microbiology of Drinking Water, part 5 2012, by membrane filtration with confirmation by KAA (ADY-SOP MM008) or or Maldi-ToF (ADY-SOP MM020)
	Pseudomonas spp. (presumptive)	Documented in-house method ADY-SOP MM001 by membrane filtration
	Pseudomonas aeruginosa (presumptive and confirmed)	ADY-SOP MM005 based on The Microbiology of Drinking Water, part 8 2015, by membrane filtration withconfirmation by MCA (ADY-SOP MM09) or Maldi-ToF (ADY-SOP MM020)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Microbiological Tests (cont'd) Isolation and enumeration of :	
Drinking water (non-regulatory), Recreational water, Clean Process water	*Legionella* s*pp* including identification of: - *Legionella pneumophila* serogroup 1 - *Legionella pneumophila* serogroup 2-14	ADY-SOP MM004 based on BS EN ISO 11731:2017 using filtration with washing and GVPC. Identification by latex agglutination (ADY-SOP MM007) or Maldi-ToF (ADY-SOP MM020) [Matrix A & B, procedures 8,9 & 10, Media C]
Bacterial isolates from the testing of Drinking water, Recreational water, Clean Process water using relevant in house microbiology isolation methods: ADY-SOP MM006 ADY-SOP MM004 ADY-SOP MM005	Confirmation of : Enterococcus spp. *Legionella* spp. *Pseudomonas aeruginosa*	Documented in-house method ADY-SOP MM020 by Maldi-ToF
END		