

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING 8901</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Alpha Scientific Limited trading as ADEY</b></p> <p>Issue No: 014    Issue date: 20 May 2021</p>	
	<p><b>Building 1020</b> Heeley Close Kent Science Park Sittingbourne Kent ME9 8HL United Kingdom</p>	<p><b>Contact: Mr Mo Jassal</b> Tel: +44 (0)1242 546700 Fax: +44 (0)1242 546700 E-Mail: mo.jassal@adey.com Website: www.adey.com</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Process Water (Closed water systems)	<p><u>Performance of Chemical Inhibitors</u></p> <p>Corrosion Testing / Scaling Tendency Testing / Compatibility with non-metallic materials</p> <p>Determination of Appearance In System Waters</p> <p><u>Chemical Analysis</u></p> <p>Dissolved Metals Li, B, Na, Mg, K, Al, Ca, Fe, Cu, Mo, Zn Molybdenum as MoO<sub>4</sub> (by calculation) Boron as NaB<sub>4</sub>O<sub>7</sub> (by calculation)</p> <p>Total Metals Iron Copper Aluminium Zinc</p> <p>Alkalinity</p> <p>Chloride</p> <p>Turbidity</p>	<p>NSF International Chemical Inhibitor Approval Scheme (CIAS) Standard Specification : 2017</p> <p>Documented In House Method – ADY-SOP-OP-007</p> <p>Documented In House Method using ICP-OES- ADY-SOP-EQP-011</p> <p>Documented in-house method using ICP-OES, ADY-SOP-EQP-032</p> <p>Documented In House Method using Colormetric Measurement Alkalinity - ADY-SOP-EQP-013</p> <p>Documented In House Method using Colormetric Measurement Chloride - ADY-SOP-EQP-012</p> <p>Documented in-house method ADY-SOP-EQP-022 using turbidimeter</p>



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Process Water (Closed water systems) (cont'd)	<u>Chemical Analysis (cont'd)</u>	
	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
	Sulphate	Documented in-house methods and colorimetric measurement ADY-SOP-EQP-029
	Nitrite Nitrite as NaNO <sub>2</sub> (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	



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Process Water (Closed water systems) (cont'd)	<u>Chemical Analysis (cont'd)</u>	
	Chloride	Documented in-house method
	Nitrate (and NaNO <sub>3</sub> by calculation)	ADY-SOP-EQP-045 using
	Nitrite (and NaNO <sub>2</sub> by calculation)	ion chromatography
	Phosphate	
	Sulphate	
	P&M Alkalinity, including	Documented in-house method
	Carbonate	ADY-SOP-EQP-047 using
	Bicarbonate	autotitration
	<u>Hydroxide Alkalinity</u>	
	<u>(by calculation)</u>	
Potable water (non-regulatory), Recreational water, Clean Process water	<u>Microbiological tests</u>	
	Enumeration: Total Viable Count at 22°C	Documented in-house method ADY-SOP MM002a by pour plate
	Enumeration: Total Viable Count at 37°C	Documented in-house method ADY-SOP MM002b by pour plate
	Enumeration: Total Viable Count at 30°C	Documented in-house method ADY-SOP MM002c by pour plate
	Pseudomonas spp. (Presumptive only)	Documented in-house method ADY-SOP MM001 by membrane filtration
	Legionella spp. (Presumptive)	Documented in-house method ADY-SOP MM004 by membrane filtration
	Legionella spp. (Confirmed)	Documented in-house method ADY-SOP MM007 by GVPC BCYE/ latex agglutination
	Pseudomonas aeruginosa (Presumptive)	Documented in-house method ADY-SOP MM005 by membrane filtration
	Pseudomonas aeruginosa (Confirmed)	Documented in-house method ADY-SOP MM009 by MCA
	Enterococci (Presumptive)	Documented in-house method ADY-SOP MM006 by membrane filtration



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Potable water (non-regulatory), Recreational water, Clean Process water	<u>Microbiological tests</u>  Enterococci (Confirmed)  Confirmation of Enterococcus spp., Legionella spp. and Pseudomonas aeruginosa  Coliforms/Escherichia coli (Presumptive & Confirmed)	Documented in-house method ADY-SOP MM008 by KAA membrane transfer method  Documented in-house method ADY-SOP MM020 by Maldi-ToF  Documented in-house method ADY-SOP MM003 by IDEXX Colilert
Potable water (non-regulatory), Process Waters (Closed water systems) and waters from swimming pools and spas	Enumeration of (Presumptive) Coliforms and Escherichia coli	Documented in-house method ADY-SOP MM015 by membrane filtration and MLGA
Isolates from method ADY-SOP MM015	Confirmation of Coliforms	Documented in-house method ADY-SOP MM017 by IDEXX Colilert
END		