


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>2262</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Alliance Technical Laboratories Limited</h3> <p>Issue No: 046 Issue date: 12 November 2021</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SWABS	<p><u>Microbiological Tests</u></p> <p>Detection:</p> <p><i>Listeria</i> spp (presumptive)</p> <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp.</p> <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp.</p> <p><i>Listeria</i> spp (presumptive)</p> <p><i>Listeria</i> spp confirmed and species identification</p> <p><i>Salmonella</i> spp</p> <p><i>Salmonella</i> spp</p> <p><u>Enumeration:</u></p> <p>Aerobic colony count at 30 °C</p> <p>Coliforms (presumptive)</p> <p>Enterobacteriaceae (presumptive)</p> <p><i>Escherichia coli</i> (β-glucuronidase positive)</p> <p>Coagulase positive Staphylococci including <i>Staphylococcus aureus</i></p>	<p>Documented In-House methods as for food samples</p> <p>AM/M:11-1</p> <p>AM/M:11-2</p> <p>AM/M:11-3</p> <p>AM/M:11-4</p> <p>AM/M:11c</p> <p>AM/M:12-1</p> <p>AM/M:12-3</p> <p>AM/M:01-1</p> <p>AM/M:02-1</p> <p>AM/M:03-1</p> <p>AM/M:04-6</p> <p>AM/M:06-1</p>



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests (cont'd)</u> <u>Enumeration:</u> Yeasts and moulds	Documented In-House methods as for food samples AM/M:10-1
ANIMAL FEEDS and COMPOST / COMPOSTS including digestates Animal feeds (excluding dog chews) and Composts, including digestates	<u>Microbiological Tests</u> Detection: <i>Salmonella</i> spp	Documented In-House methods AM/M:12-1 based on ISO 6579-1:2017, to meet the requirements of the Animal By Products (Enforcement) (England) Regulations [ABPR] No.2011/881 which enforce the directly applicable requirements of the EU Implementing Regulation 142/2011, PAS 100:2011 and PAS 110:2010
Animal Feeds	 <u>Enumeration:</u> Enterobacteriaceae (presumptive and confirmed)	 AM/M:03-2 based on ISO 21528-2:2017 using VRBGA layer plate at 37°C to meet the requirements of the Animal By Products (Enforcement) (England) Regulations [ABPR] No.2011/881 which enforce the directly applicable requirements of the EU Implementing Regulation 142/2011
Composts, including digestates	 <i>Escherichia coli</i> (β -glucuronidase positive)	 AM/M:04-7 based on ISO 16649-2:2001 using TBX pour plate at 44 °C after 4 hr preincubation at 37 °C to meet the requirements of the Animal By Products (Enforcement) (England) Regulations [ABPR] No.2011/881 which enforce the directly applicable requirements of the EU Implementing Regulation 142/2011, PAS 100:2011 & PAS 110:2010
FOODS and FOOD PRODUCTS	<u>Chemistry Tests</u> Water activity (A_w)	Documented In-House methods AM/M: 20-1 using the Aqualab 4TE water activity meter



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FOODS and FOOD PRODUCTS (unspecified)	<p><u>Microbiological Tests</u></p> <p>Confirmation:</p> <p><i>Listeria</i> spp confirmed and species identification</p> <p>Detection:</p> <p><i>Listeria</i> spp (presumptive)</p> <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp.</p> <p><i>Listeria monocytogenes</i> and <i>Listeria</i> spp.</p> <p><i>Listeria</i> spp (presumptive)</p> <p><i>Salmonella</i> spp</p> <p><i>Salmonella</i> spp</p> <p>Enumeration:</p> <p>Aerobic colony count at 22 °C</p> <p>Aerobic colony count at 30 °C</p>	<p>Documented In-House Methods</p> <p>AM/M/11-c confirmation and identification of lab isolates from presumptive methods using Gram stain, oxidase test, catalyse and Microgen <i>Listeria</i> ID biochemical kit.</p> <p>AM/M:11-1 using BLEB enrichment and isolation on Oxford Agar based on ISO 11290-1:1996 (superseded, client specified)</p> <p>AM/M/11-2 based on BS EN ISO 11290-1:2017</p> <p>AM/M11-3 in house method with enrichment in half Fraser and full Fraser broth with a single streak from full Fraser broth only onto ALOA agar only.</p> <p>AM/M/11-4 using <i>Listeria</i> Novell enrichment Broth and selective plating on ALOA</p> <p>AM/M:12-1 based on ISO 6579-1:2017</p> <p>AM/M:12-3 using Pathatrix immunoconcentration/enrichment of pooled samples and selective plating with positives being subject to individual retest, using conventional media systems</p> <p>AM/M:01-3 using pour plate count agar for 72h</p> <p>AM/M:01-1 using pour plate count agar for 48h</p>



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FOODS and FOOD PRODUCTS (unspecified) (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods
	Enumeration: (cont'd)	
	<i>Bacillus cereus</i> (presumptive)	AM/M:13-1 using PEMBA selective agar based on Holbrook and Anderson, 1980
	<i>Clostridium perfringens</i>	AM/M:07-1 based on ISO 7937:2004 with confirmation using RapIDANA biochemical gallery (Remel/Oxoid)
	Coliforms (presumptive)	AM/M:02-1 based on ISO 4832:2006
	Enterobacteriaceae (presumptive)	AM/M:03-1 based on ISO 21528-2:2017
	<i>Escherichia coli</i> (β-glucuronidase positive)	AM/M:04-6 based on ISO 16649-2:2001 using TBX chromogenic media
	Lactic acid bacteria (presumptive)	AM/M:08-1 based on ISO 15214:1998
	<i>Listeria</i> spp (presumptive)	AM/M:11-e selective plating on Oxford and ALOA agars
	<i>Pseudomonas</i> spp (presumptive)	AM/M:09-1 based on ISO 13720:2010
Coagulase positive Staphylococci including <i>Staphylococcus aureus</i>	AM/M:06-1 based on ISO 6888-1:1999 using tube coagulase confirmation	
Yeasts and Moulds	AM/M:10-1 based on Practical Food Microbiology, 2003 Section 6.17, Method 1	
WATERS Potable	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water, The Environment Agency
	Enumeration:	
	Coliforms (presumptive)	AM/W:001 based on MoDW Part 4B:2016 using MLGA



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WATERS (cont'd)	<u>Microbiological Tests (cont'd)</u>	Documented In-House Methods based on The Microbiology of Drinking Water, The Environment Agency
Potable (cont'd)	Enumeration: (cont'd)	
	<i>Escherichia coli</i>	AM/W:001 based on MoDW Part 4B:2016 using MLGA
	Enterococci (presumptive)	AM/W:004 based on MoDW Part 5A:2012
	<i>Pseudomonas aeruginosa</i>	AM/W:006 based on MoDW Part 8:2015
	Sulphite reducing Clostridia	AM/W:005 based on MoDW Part 6:2015
	Aerobic colony count at 22 °C	AM/W:002 based on MoDW Part 7A:2012
	Aerobic colony count at 37 °C	AM/W:003 based on MoDW Part 7A:2012
Swimming Pools	<i>Pseudomonas aeruginosa</i>	AM/W:006 based on MoDW Part 8B:2015
FERTILISERS	<u>Chemical/Physical Tests</u>	Documented In-House Methods
	Moisture (loss at 105 °C)	GLPMETH010-002 by gravimetry
	Loss on ignition at 450 °C on a dry matter basis	GLPMETH010-003 by ashing and gravimetry
	Total Phosphorus (Inorganic)	GLPMETH010-005 by acid extraction and colorimetry
	Potassium	GLPMETH010-006-02 by acid digestion and ICP-OES
	Potentially toxic elements (PTEs)	GLPMETH010-009 by acid digestion and ICP-OES and hydride generation ICP-OES
	Arsenic	
	Cadmium	
	Cobalt	
	Chromium	
	Copper	
	Manganese	
	Mercury	



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FERTILISERS cont'd	<u>Chemical/Physical Tests (cont'd)</u> Potentially toxic elements (PTEs) (cont'd) Molybdenum Nickel Lead Selenium Vanadium Zinc	Documented In-House Methods GLPMETH010-009 by acid digestion and ICP-OES and hydride generation ICP-OES
FOODS	Dietary fibre Total Sugars as reducing sugars	GLPMETH070-008 based on AOAC 985.29 GLPMETH070-014 using Luff Schoorl titration
ANIMAL FEEDS and PETFOODS	Crude Fibre	GLPMETH070-007 using acid hydrolysis
FOODS and PETFOODS	Carbohydrate by difference Energy Value Saturated fatty acids in fat and Including mon-unsaturated and poly-unsaturated and trans fatty acids	GLPMETH070-010 by documented calculation GLPMETH070-011 by documented calculation GLPMETH070-012 by methylation and GC
FOODS, ANIMAL FEEDS and PETFOODS	Ash and mineral content Total Fat (Werner Schmidt) Moisture Nitrogen and Protein Nitrogen and Protein	GLPMETH070-003 using furnace at 500-600 °C GLPMETH070-006 by acid hydrolysis and solvent extraction GLPMETH070-002-001 by oven drying at 103-105°C GLPMETH070-005-01 using Kjeldahl digestion GLPMETH070-005-02 by Dumas



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FOODS, ANIMAL FEEDS and PETFOODS (Cont'd)	<u>Chemical/Physical Tests</u> Calcium, Magnesium, Potassium, Phosphorus, Sodium and salt equivalent Elements: Arsenic Cadmium Calcium Chromium Copper (excluding food) Iron Lead Magnesium Manganese Mercury Nickel Phosphorous Potassium Sodium Selenium Zinc	Documented In-House Methods GLPMETH070-009 using Aqua Regia acid digestion and ICP-OES GLPMETH070-013 by ICP-OES and Hydride Generation
SOILS	<u>Chemical/Physical Tests</u> pH Extractable Phosphorus Extractable Potassium and Magnesium	Documented In-House Methods GLPMETH061-002 by electrometric measurement GLPMETH061-004 by colorimetry GLPMETH061-007 by inductively coupled plasma optical emission spectroscopy (ICP-OES) based upon "The Analysis of Agricultural Materials", RB427, MAFF, 1985
Compost	Cadmium, Calcium, Chromium, Copper, Iron, Lead, Mercury, Magnesium, Molybdenum, Nickel, Phosphorus, Potassium, Sulphur, Zinc	GLPMETH080-007 by ICP-OES



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SOILS Digestate from sewage sludge and other organic fertiliser materials	<u>Chemical/Physical Tests</u> Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Mercury, Magnesium, Molybdenum, Nickel, Phosphorus, Sulphur, Vanadium, Zinc	Documented In-House Methods GLPMETH 090-006 by ICP-OES
WATERS and EFFLUENTS (Groundwater, Surfacewater, Wastewater, Effluents and Purified Water)	<u>Chemical/Physical Tests</u> Suspended Solids Biological Oxygen Demand (BOD) Chemical Oxygen Demand (COD) Ammoniacal Nitrogen Oils, Fats and Greases (FOGs) pH Total Iron and Phosphorus	Documented In-House Methods GLPMETH030-003 by gravimetry GLPMETH030-005 by titrimetry GLPMETH030-008 by digestion with acidic potassium dichromate and colorimetry GLPMETH030-010 by colorimetry GLPMETH030-018 by solvent extraction and gravimetry GLPMETH030-002 by electrometric measurement GLPMETH030-019 by ICP-OES, based on "Methods for the Examination of Water and Associated Materials" - HMSO, 1980
Wastewater and effluent	Biochemical Oxygen Demand (BOD). Dissolved Oxygen	GLPMETH030-005 (Section 10) Using dissolved oxygen meter
Effluents, ground waters, surface waters, purified (RO) water.	Anions – Fluoride, Chloride, Bromide, Nitrate, Nitrite, Sulphate, Phosphate. Cations - Ammonium	GLPMETH 030-022, Determination of Dissolved Ions by liquid chromatography with conductivity detector (Ion Chromatography) (Based on BS EN 10304-1).

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