

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2017	Bio Search (N.I.) Limited	
	Issue No: 093 Issue date: 18 March 2022	
	Dufferin Road Belfast Northern Ireland BT3 9AA	Contact: Ms D Arthur Tel: +44 (028) 9035 2066 Fax: +44 (028) 9035 2161 E-Mail: deby@biosearch.co.uk Website: www.biosearch.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 Dufferin Road Belfast Northern Ireland BT3 9AA Local contact Ms D Arthur Tel: +44 (028) 9035 2066 Fax: +44 (028) 9035 2161 Email: deby@biosearch.co.uk Website: www.biosearch.co.uk	Sampling Chemical testing Microbiological testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Food, Animal Feed and Water Related Premises	Sampling (excluding DWTS samples)	B



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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
ANIMAL FEEDS	<u>Microbiological Tests</u>	Documented In-House Methods	
	Detection:		
	<i>Salmonella</i> spp, confirmed	TM 9 based on BS EN ISO 6579-1:2017+A1: 2020 with screening of suspect positives using Rapid Salmonella (BioRad) Confirmation using serology and biomerieux API	A
	<i>Salmonella</i> spp., confirmed	TM 69 using SOLUS ELISA kit and DYNEX DS2 analyser. Confirmation using serology and biomerieux API	A
	Enumeration:		
	Enterobacteriaceae, presumptive	TM 26 based on BS EN ISO 21528-2:2017	A
	Yeasts and Moulds	TM 16 based on BS ISO 21527-1:2008	A
ENVIRONMENTAL SAMPLES collected from animal feed environment: Sponge swabs Gauze swabs Dust Tray Liners	<i>Salmonella</i> spp, confirmed	Testing for the purpose of enforcement of the Control of Salmonella in Poultry Scheme Order (Northern Ireland) 2008 (SR 2008/263)	A
		Testing for the purpose of enforcement of the Control of Salmonella in Turkey Flocks Scheme Order (Northern Ireland) 2010	A
		TM65 based on BS EN ISO 6579-1:2017+A1:2020 Annex D Using a single selective enrichment medium (modified semi-solid Rappaport-Vassiladis medium, MSRv) Confirmation using serology and biomerieux API	A



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ENVIRONMENTAL SWABS (cont'd) (Stick swabs provided by the laboratory, unless otherwise specified)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Enumeration:		
	Coliforms at 30 °C, 37 °C presumptive and confirmed	TM 3 based on BS ISO 4832:2006	A
	Enterobacteriaceae, presumptive	TM 26 based on BS EN ISO 21528-2:2017	A
	<i>Escherichia coli</i> β-glucuronidase-positive	TM 4 based on BS ISO 16649-2:2001	A
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i> (confirmed)	TM 5 based on BS EN ISO 6888-1:1999+A2:2018 with confirmation using prolex latex kit	A
Sponge swabs from animal feed environments	Total Aerobic Colony Count at 30 °C	TM 1 based on BS EN ISO 4833-1:2013	A
	Detection:		
	<i>Salmonella</i> spp, confirmed	TM 9 based on BS EN ISO 6579-1:2017+A1:2020 with screening of suspect positives using Rapid Salmonella (BioRad) Confirmation using serology and biomerieux API	A
Sponge swabs from animal feed environments and food production environments	<i>Salmonella</i> spp, confirmed	TM 69 using SOLUS ELISA kit and DYNEX DS2 analyser. Confirmation using serology and Biomerieux API	A
Sponge swabs from food production environments	<i>Salmonella</i> spp, confirmed	TM 45 based on BS EN ISO 6579-1:2017+A1:2020, with screening of suspect positives using Rapid Salmonella (BioRad) Confirmation using serology and biomerieux API.	A
Sponge swabs from food production environments	<i>Listeria</i> spp, confirmed	TM 7 based on BS EN ISO 11290-1:2017 Confirmation using biomerieux API or Microgen ID systems	A



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
Sponge swabs from food production environments	Detection: (cont'd): <i>Listeria</i> spp., confirmed	TM 63 using SOLUS ELISA kit and DYNEX DS2 analyser. Confirmation using biomerieux API or Microgen ID systems	A
FOOD, FOOD PRODUCTS & DAIRY	Enumeration: <i>Bacillus cereus</i> , presumptive	TM 6 based on CCFRA Technical Manual 43: 3.7.1:2007	A
	<i>Clostridium perfringens</i> , confirmed	TM 17 based on BS EN ISO 7937:2004	A
	Coliforms at 30 °C or 37 °C, presumptive and confirmed	TM 3 based on BS ISO 4832:2006	A
	Enterobacteriaceae, presumptive	TM 26 based on BS EN ISO 21528-2:2017	A
	<i>Escherichia coli</i> , β-glucuronidase-positive	TM 4 based on BS ISO 16649-2:2001	A
	Lactic acid bacteria, presumptive	TM 13 based on CCFRA Technical Manual 43:2.6.1:2003	A
	<i>Listeria</i> spp, confirmed	TM 8 based on BS EN ISO 11290-2:2017 confirmation using biomerieux API or Microgen ID systems	A
	<i>Pseudomonas</i> spp, presumptive	TM 2 based on BS EN ISO 13720:2010	A
	Coagulase-positive-staphylococci including <i>Staphylococcus aureus</i> , confirmed	TM 5 based on BS EN ISO 6888-1:1999 +A2:2018 with confirmation using prolex latex kit	A
	Total Aerobic Colony Count at 30 °C	TM 1 based on BS EN ISO 4833-1:2013	A
	Yeasts and Moulds	TM 16 based on BS ISO 21527-1:2008	A



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FOOD, FOOD PRODUCTS & DAIRY (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Detection:		
	<i>Campylobacter</i> spp, confirmed	TM 10 based on BS EN ISO 10272-1:2017	A
	<i>Escherichia coli</i> O157, confirmed	TM 11 based on BS EN ISO 16654:2001+A1:2017	A
	<i>Listeria</i> spp, confirmed	TM 7 based on BS EN ISO 11290-1:2017 Confirmation using biomerieux API or Microgen ID systems	A
		TM 59 based on AOAC Official Method 997.03 using VIP assay	A
	<i>Salmonella</i> spp, confirmed	TM 45 based on BS EN ISO 6579-1:2017+A1:2020. Confirmation using serology and Biomerieux API	A
Eggs only	Detection of <i>Salmonella</i> spp	TM 66 in accordance with BEIC Lion Egg Code. Confirmation using serology and biomerieux API	A
	<i>Listeria</i> spp., confirmed	TM 63 using SOLUS ELISA kit and DYNEX DS2 analyser. Confirmation using biomerieux API or Microgen ID systems	A
	<i>Salmonella</i> spp., confirmed	TM 69 using SOLUS ELISA kit and DYNEX DS2 analyser. Confirmation using serology and Biomerieux API	A
FOOD AND ANIMAL FEED, WATERS	<u>Sampling</u>	Documented In-House Methods	
	Environmental swabs	SP 001	B
	Food and Feed samples	SP 001	B
	Water Samples (for non-statutory testing)	SP 001 based on The Microbiology of Drinking Water Part 2 2010	B



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WATERS	<u>Microbiological Tests</u>	Documented In-House Methods	
Drinking water	Enumeration: 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)	A
	Coliforms, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	<i>Escherichia coli</i> , 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
	Sulphite reducing clostridia and <i>Clostridium perfringens</i> (including spores) confirmed	TM 36 by membrane filtration based on the Microbiology of Drinking Water Part 6 2021	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
Groundwater, surface, saline, recreational, Spa and swimming pool waters	Enumeration: (cont'd)		
	Coliforms, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2016, using membrane filtration	A
	<i>Escherichia coli</i> , 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
Saline, Recreational, Surface and Treated Sewage water	Sulphite reducing clostridia and <i>Clostridium perfringens</i> (including spores) confirmed	TM 36 by membrane filtration based on the Microbiology of Drinking Water Part 6 2021	A
	β-glucuronidase positive <i>Escherichia coli</i>	TM 117 based on the Microbiology of Recreational and Environmental Waters, Part 3 2016	A
Healthcare waters (Including Dialysis, ultrapure and RO water)	Bacterial Endotoxin detection and enumeration	TM 80 based on BS EN ISO 15883 using kinetic chromogenic system	A
Drinking and Healthcare water (Spa, swimming pool, reverse osmosis and Endoscope final rinse water)	<i>Pseudomonas aeruginosa</i>	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)	Presumptive <i>Pseudomonas</i> spp.	TM 88 based on The Microbiology of Drinking Water, Part 8 2015, using membrane filtration	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



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Enumeration: (cont'd)		
Process waters (Cooling towers and Condensers)	Total Aerobic Colony Count 30 °C for 48 hours	TM 94 using Yeast extract agar	A
Drinking, swimming pool, cooling towers, process waters (heating systems and condensers)	Detection and Enumeration of <i>Legionella</i> spp, <i>Legionella pneumophila</i> serogroup 1 or serogroup 2-15 and <i>Legionella</i> 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)	A
Rinse waters from 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
Dialysis water	Total Aerobic Colony Count (37 & 22 °C)	TM 70 using TGE agar based on BS EN ISO 23500-3:2019	A
	<u>Chemical Tests</u>	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 disinfectant waters, RO, final, clean steam condensate and other processes)	Appearance (colour and turbidity) pH	TM 71 using: Colorimetry and nephelometry Indicator and comparator	A
	Conductivity Total dissolved solids Total hardness Heavy metals Silicate	TM 71 using: Conductivity meter Conductivity and calculation Hach-Lange test kit Colorimetry Hach-Lange test kit	A



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WATERS (cont'd)	<u>Chemical Tests</u> (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 disinfectant waters, RO, final, clean steam condensate and other processes)	Appearance Ammonium pH Conductivity Total dissolved solids Total hardness Heavy metals (as mg Pb/l) Silicate Oxidisable substances Calcium and magnesium	TM 72 using: Colorimetry and nephelometry Hach-Lange test kit Indicator and comparator Conductivity meter Conductivity meter and calculation Hach-Lange test kit Colorimetry Hach-Lange test kit Colorimetric limit test Colorimetric limit test	A
Healthcare (RO Water and clean steam condensate)	Evaporative Residue	TM 72 based on HTM 01-01 Part D	A
Healthcare water (endoscope washer disinfectant and RO water)	Total organic carbon (TOC)	TM 98 by persulphate / UV methodology using GE Sievers 900 TOC Analyser with manual sample injection or by auto-sampler	A
	Fluoride, Chloride, Sulphate, Nitrate (by calculation), Total Oxidised Nitrogen (TON), Nitrite, Phosphate, Soluble Reactive Phosphorus and alkalinity	TM 112 using Thermo Scientific Discrets Auto-analyser	A
	Mercury Boron	TM108 by NexION 1000 ICP-MS	A



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WATERS (cont'd)	<u>Chemical Tests</u> (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, disinfectant 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
WATERS	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods	
Surface and Groundwater	Nitrate (by calculation) and Total Oxidised Nitrogen (TON)	TM 112 using Thermo Scientific Discrets Auto-analyser	



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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	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
Drinking water, Surface Water and Ground water	<u>Chemical Tests (cont'd)</u>		
	Ammonium Ammonical-N by calculation Ammonia by calculation	TM 50 The determination of ammonium using a spectrophotometer, MEWAM:1981	A
	Hydrogen Ion (pH) and Conductivity	TM 51 Measurement of Electrical conductivity MEWAM:1978, Standing Committee of Analysts	A
	Turbidity	TM 52 based on Colour and Turbidity of Waters MEWAM:1981, Standing Committee of Analysts	A
	Trihalomethanes (THMs) Bromodichloromethane Dibromochloromethane Bromoform Chloroform	TM 55 Analysis of THMs in water using Clarus 600 GC-MS with headspace sampler. Based on EPA Method 524.2, Measurement of purgeable organic compounds in water by capillary column gas chromatography/mass spectrometry, Revision 4.1, Edited by J W Munch (1995)	A
	True Colour	TM 62 based on Colour and Turbidity of Waters	A



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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 (cont'd)</u>	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
	Apparent Colour	MEWAM:1981, Standing Committee of Analysts	A
Drinking water, Surface water and Groundwater	VOCs: (1,2 dichloroethane, benzene, tetrachloroethene, tetrachloromethane, trichloroethene, vinyl chloride)	TM 56 Analysis of volatile organic compounds in water using Clarus 600 GC-MS with headspace sampler based on US EPA method 8260B (1996)	A
Drinking water, Surface water and Groundwater	Total organic carbon (TOC)	TM 98 by persulphate / UV methodology using GE Sievers 900 TOC Analyser with manual sample injection or by auto-sampler	A
Drinking Water	Fluoride, Chloride, Sulphate, Nitrate (by Calculation), Total Oxidised Nitrogen (TON), Nitrite, Phosphate, Soluble Reactive Phosphorus and Alkalinity	TM 112 using the Thermo Scientific Gallery Discrete Auto Analyser	A
Surface and Ground Waters	Fluoride, Chloride, Sulphate, Nitrite, Phosphate, Soluble Reactive Phosphorus and 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



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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	Documented In-house Methods in accordance with the Drinking Water Testing Specification (DWTS)	
	<u>Chemical Tests (cont'd)</u>		
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
END			