

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 1369 Accredited to ISO/IEC 17025:2005	Bio-Search (NI) Ltd	
	Issue No: 039	Issue date: 11 January 2013
	Dufferin Road Belfast Northern Ireland BT3 9AA	Contact: Mrs K Topping Tel: +44 (028) 9035 2066 Fax: +44 (028) 9035 2161 E-Mail: karen@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 Mrs K Topping Tel: +44 (028) 9035 2066 Fax: +44 (028) 9035 2161 Email: karen@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
Premises including domestic, commercial and industrial	Sampling (excluding samples taken for compliance testing)	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 6579:2002+A1 2007 for the purpose of the Animal By-Products (Enforcement) Regulations (Northern Ireland) 2011 and Regulation (EC) No 1774/2002,	A
		TM 67 using Rapid Salmonella (BioRad)	A
	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 ISO 7937:2004	A
	Aerobic spores	TM 14 based on CCFRA Technical Manual 43 1.2.1:2003	A
Anaerobic spores	TM 15 based on CCFRA Technical Manual 43 1.2.1:2003	A	
<i>Enterobacteriaceae</i> , presumptive	TM 26 based on ISO 21528-2:2004	A	
Yeasts and Moulds	TM 16 based on CCFRA: Method 6.2.1. 1:2007(using Rose Bengal Agar)	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS (Stick and sponge swabs provided by the laboratory unless otherwise specified)	<u>Microbiological Tests</u>	Documented In-House Methods	
	Enumeration:		
	Coliforms at 30 °C, 37 °C presumptive and confirmed	TM 3 based on ISO 4832:2006	A
	<i>Enterobacteriaceae</i> , presumptive	TM 26 based on ISO 21528-2:2004	A
	<i>Escherichia coli</i> , beta-glucuronidase-positive	TM 4 based on BS ISO:16649:Part 2:2001	A
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i> ,	TM 5 based on BS EN ISO 6888:Part 1:1999	A
Sponge swabs from animal feed environments	Total Aerobic Colony Count at 22 °C, 30 °C and 37 °C	TM 1 based on BS EN ISO 4833:2003	A
	Detection:		
	<i>Salmonella</i> spp, confirmed	TM 9 based on BS EN ISO 6579:2002+A1 2007 for the purpose of the Animal By-Products (Enforcement) Regulations (Northern Ireland) 2003 and Regulation (EC) No 1774/2002, Documented In-house Method No TM 67 using Rapid Salmonella (BioRad)	A A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS (Stick and sponge swabs provided by the laboratory unless otherwise specified) (cont'd)	Detection: (cont'd)	Documented In-House Methods (cont'd)	
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) Testing for the purpose of enforcement of the Control of Salmonella in Turkey Flocks Scheme Order (Northern Ireland) 2010	A
Sponge swabs from food production environments	<i>Salmonella</i> spp, confirmed	No TM65 based on ISO 6579 2002+A1 2007 Annex D Using a single selective enrichment medium (modified semi-solid Rappaport-Vassiladis medium, MSRV)	A
(Sponge swabs on carcass samples only)	<i>Escherichia coli</i> O157 confirmed	TM 45 based on BS EN ISO 6579:2002+A1:2007	A
(Sponge swabs only)	<i>Listeria</i> spp, confirmed	TM 67 using Rapid Salmonella (BioRad)	A
		TM 11 based on BS EN ISO 16654:2001	A
		TM 7 based on BS EN ISO 11290-1:1997 + A1 2004, confirmation using API for species	A
		TM59 based on AOAC Official Method 997.03 using VIP assay	A



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FOOD, FOOD PRODUCTS & DAIRY	<u>Microbiological Tests</u>	Documented In-House Methods	
	Enumeration:		
	Coliforms at 30 °C or 37 °C, presumptive and confirmed	TM 3 based on ISO 4832:2006	A
	<i>Enterobacteriaceae</i> , presumptive	TM 26 based on ISO 21528-2:2004	A
	<i>Escherichia coli</i> , beta-glucuronidase-positive	TM 4 based on BS ISO 16649:Part 2:2001	A
	<i>Listeria</i> spp, confirmed	TM 8 based on BS EN ISO 11290-2:1998+A1:2004 confirmation of <i>Listeria</i> spp using API Kit; BS 4285: Section 3.15:1993 (dairy)	A
	<i>Bacillus cereus</i> , presumptive	TM 6 based on CCFRA Technical Manual 43: 3.7.1:2007	A
	<i>Pseudomonas</i> spp, presumptive	TM 2 based on ISO 13720:2010	A
	Coagulase-positive-staphylococci including <i>Staphylococcus aureus</i> , confirmed	TM 5 based on BS EN ISO 6888:Part 1:1999	A
	Total Viable Count at 22 °C, 30 °C and 37 °C	TM 1 based on BS EN ISO 4833:2003	A
	Aerobic spores	TM 14 based on CCFRA Technical Manual 43 1.2.1:2003	A
	Anaerobic spores	TM 15 based on CCFRA Technical Manual 43 1.2.1:2003	A
Yeasts and Moulds	TM 16 based on CCFRA Manual Method 6.2.1.1:2007	A	
<i>Clostridium perfringens</i> , confirmed	TM 17 based on ISO 7937:2004	A	



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FOOD, FOOD PRODUCTS & DAIRY (cont'd)	Enumeration: (cont'd)		
	Lactic acid bacteria, presumptive	TM 13 based on CCFRA Technical Manual 43:2.6.1:2003	A
	Detection:		
	<i>Campylobacter</i> spp, confirmed	TM 10 based on ISO 10272-1:2006 using API	A
	<i>Escherichia coli</i> O157, confirmed	TM 11 based on BS EN ISO 16654:2001	A
	Carcass samples only		
	<i>Escherichia coli</i> O157, confirmed	TM 23 using 'Reveal' method	A
	Eggs		
	Detection of <i>Salmonella</i> spp	TM 66 in accordance with BEIC Lion Egg Code	A
	Shellfish		
Coliforms at 30 °C or 37 °C, presumptive and confirmed		TM 3 based on ISO 4832:2006	A
<i>Listeria</i> spp, confirmed		TM 7 based on BS EN ISO 11290-1:1997+A1:2004 Confirmation of <i>Listeria</i> spp using API	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 6579:2002+A1:2007	A
		TM 67 using Rapid Salmonella (BioRad)	A
	<i>Escherichia coli</i> , confirmed	TM 25 based on DD ISO/TS 16649-3:2005 using table B.7 from ISO 7218-2007	A



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FOOD AND ANIMAL FEED	<u>Sampling</u>	Documented In-House Methods	
	Environmental swabs	SP 001	B
	Food and Feed samples	SP 001	B
	Water Samples	SP 001 based on The Microbiology of Drinking Water Part 2 2010	B
WATER Ground water, Potable and non-potable water	<u>Microbiological Tests</u>	Documented In-House Methods	
	Total Aerobic Count at 22 °C and 37 °C	TM 20 based on BS EN ISO 6222:1999	A
	Coliforms, confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2009, using membrane filtration	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 2010:HMSO	A
	<i>Escherichia coli</i> , confirmed	TM 18 based on The Microbiology of Drinking Water, Part 4 2009, using membrane filtration	A
	Enterococci, confirmed	TM 19 based on The Microbiology of Drinking Water, Part 5 2010, using membrane filtration	A
	Potable and non-potable	<i>Pseudomonas aeruginosa</i>	TM 35 based on The Microbiology of Drinking Water, Part Part 8 2010, using membrane filtration
		TM 22 based on BS 6068-4.12:1998, ISO 11731:1998.	A



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WATER Potable and non-potable (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods (cont'd)	
Potable and Process waters other than from cooling towers	Detection and Enumeration of <i>Legionella</i> spp, <i>Legionella pneumophila</i> serogroup 1 or serogroup 2-15 and <i>Legionella</i> spp	TM22 based on ISO 11731:1998.	A
Rinse waters from washer/ disinfectors	Total Aerobic Count	TM 46 based on NHS (1997) - Health Technical Memorandum 2030 using membrane filtration	A
Dialysis water	Total Viable Count at 22 °C	TM 70 using TSE agar based on BS ISO13959:2009	A
WATERS	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (SR 2007/147). The testing is in accordance with the Drinking Water Testing Specification (DWTS)	Documented In-House Methods based on 'Methods for the Examination of Waters and Associated Materials' (MEWAM)	
Raw waters	<u>Microbiological Tests</u> Total Algae	Documented In-House Methods TM 48 based on The enumeration of Algae:1990, MEWAM Standing Committee of Analysts	A
	<i>Cryptosporidium</i> oocysts	TM 49 based on The Microbiology of Drinking Water Part 14:2010,	A
Ground water	<u>Chemical Tests</u> Taste and Odour	TM 53 The determination of Taste and Odour MEWAM:2010	A
Potable and non-potable water			



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WATERS (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 (SR 2007/147) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd)	Documented In-house Methods (cont'd)	
Potable and non-potable water	<u>Chemical Tests</u> (cont'd) Acrylamide (client specified LOD acceptability)	TM 61 using Clarus 500 gas chromatograph based on US EPA method 8032	A
	Ammonium	TM 50 The determination of ammonium using a spectrophotometer, MEWAM:1981	A
	Bromate	TM 54 based on Chromatography MEWAM:1990 Standing Committee of Analysts	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
	Anions (nitrite, chloride, fluoride, nitrate, sulphate)	TM 57 Analysis of anions in raw and potable waters using ICS 3000 Ion Chromatograph, based on Dionex application notes	A
	Aluminium, manganese and iron	TM 58 Analysis of metal ions (Al, Mn, Fe) in water using Elan 9000 ICP-MS. US EPA method 200.8	A



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WATERS (cont'd) Potable and non-potable (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Trihalomethanes (THMs)	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
	Antimony, Arsenic, Cadmium, Chromium Copper, Nickel, Selenium	TM64 Analysis of metal ions (Sb, As, Cd, Cr, Ni, Se) in water using Elan 9000 ICP-MS. US EPA method 200.8	A
	Colour	TM 62 based on Colour and Turbidity of Waters MEWAM:1981, Standing Committee of Analysts	A
	VOCs (1,2 dichloroethane, benzene, tetrachloroethane, tetrachloromethane, trichloroethane, 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
END			