

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	Microsearch Laboratories Ltd	
	Issue No: 028 Issue date: 11 January 2012	
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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
ANIMAL FEEDINGSTUFFS	<u>Microbiological Tests</u> Detection: <i>Salmonella</i> spp, confirmed Identified to group level Enumeration: <i>Clostridium perfringens</i> , confirmed	Documented In-House Methods 1) TP 4119 based on BS EN ISO 6579:2002 + A1:2007 Confirmation using biomerieux API 20E and serology 2) TP 4160 based on BS EN ISO 6579:2002 + A1:2007 Confirmation using biomerieux API 20E and serology. In accordance with The Animal By-Products (Enforcement) (England) Regulations 2011 and The Animal By-Products (Enforcement) (Scotland) Regulations 2011 1) TP 4105 based on BS EN ISO 7937:2004 2) TP 4162 based on BS EN ISO 7937:2004 In accordance with The Animal By-Products (Enforcement) (England) Regulations 2011 and The Animal By-Products (Enforcement) (Scotland) Regulations 2011



1916

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ANIMAL FEEDINGSTUFFS (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) Enterobacteriaceae, presumptive	Documented In-House Methods 1) TP 4103 based on BS ISO 21528-2:2004 2) TP 4161 based on BS ISO 21528-2:2004 In accordance with The Animal By-Products (Enforcement) (England) Regulations 2011 and The Animal By-Products (Enforcement) (Scotland) Regulations 2011.
ENVIRONMENTAL SWABS	<u>Chemical Tests</u> Allergens: - Almond - Casein 0.5-13.5ppm - Egg White - Gluten > 5 ppm - Hazel Nut - Peanut <u>Microbiological Tests</u> Detection: Campylobacter spp	Documented In-House Methods MBP 4018 ELISA immunoassay using R-Biopharm kit MBP 4015 ELISA immunoassay using R-Biopharm kit MBP 4017 ELISA immunoassay using R-Biopharm kit MBP 4013 ELISA immunoassay using R-Biopharm kit MBP 4021 ELISA immunoassay using R-Biopharm kit MBP 4014 ELISA immunoassay using R-Biopharm kit Documented In-House Methods TP 4128 based on BS EN ISO 10272-1:2006



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods
	<i>Salmonella</i> spp, confirmed Identified to group level	TP 4119 based on EN ISO 6579:2002+A1:2007 Confirmation using biomerieux API 20E and serology
	<i>Salmonella</i> spp (motile), confirmed Identified to group level	TP 4120 based on AOAC 993.07 (1993)
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed	TP 4141 using selective enrichment and ALOA agar with confirmation using Microgen biochemical profiling
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> confirmed	TP 4151 based on ISO 11290:1:1997 A1:2004 Confirmation using Microgen biochemical profiling
	<i>Escherichia coli</i> , confirmed	TP 4122 using single enrichment and confirmation on TBX
	Enumeration:	
	<i>Bacillus cereus</i> , presumptive	TP 4108 based on BS EN ISO 7932:2004
	Coliforms, presumptive	TP 4102 based on BS ISO 4832:2006
	Enterobacteriaceae, presumptive	TP 4103 based on BS ISO 21528-2:2004
	<i>Escherichia coli</i> O157 (presumptive)	TP 4131 using selective enrichment and IMS based on BS EN ISO 16654:2001
	<i>Escherichia coli</i> (Beta glucuronidase positive)	TP 4133 based on BS ISO 16649-2:2001 using TBX agar
	Faecal streptococci, presumptive	TP 4107 using Kanamycin Aesculin Agar pour plate
Lactic acid bacteria, presumptive	TP 4114 based on BS ISO 15214:1998	



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods
	Enumeration: (cont'd)	
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed	TP 4152 based on ISO 11290-2:1998:A1:2004 Confirmation using Microgen biochemical profiling
	Moulds	TP4109 based on BS ISO 21527-1:2008
	<i>Pseudomonas</i> spp, presumptive	TP4115 based on ISO 13720:2010
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i> , confirmed	TP 4106 based on ISO 6888-1:1999
	Total aerobic colony count at 30 °C	TP 4100 based on BS EN ISO 4833:2003
Yeasts	TP4109 based on BS ISO 21527-1:2008	
FOODS AND FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods
	Allergens:	
	- Almond	MBP 4018 ELISA immunoassay using R-Biopharm kit
	- Casein 0.5-13.5ppm	MBP 4015 ELISA immunoassay using R-Biopharm kit
	- Egg White	MBP 4017 ELISA immunoassay using R-Biopharm kit
	- Gluten > 5 ppm	MBP 4013 ELISA immunoassay using R-Biopharm kit
	- Hazel Nut	MBP 4021 ELISA immunoassay using R-Biopharm kit
	- Peanut	MBP 4014 ELISA immunoassay using R-Biopharm kit



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FOODS AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
	Aflatoxins	CH 4027 by HPLC using R-Biopharm kit
	Ash	CH 4006 based on BS 4401:Part 1:1998
	Available Water	CH4012 using Novatron water activity meter
	Dietary Fibre	CH 4009 based on AOAC 985.29 1986
	Fat (Total)	CH 4005 based on BS 4401:Part 4:1970
	Fat (free)	CH 4022 based on BS 4401:Part 4:1970, Method A
	Fat (by acid hydrolysis)	CH 4031 based on BS 4401:Part 4:1970
	Fatty Acid Profile	CH 4029/4030 based on ISO 5508 1995 and ISO 5509:2001
	Free Fatty Acids	CH 4007 based on Pearsons 9th Edition by titration
	Hydroxyproline	CH 4060 based on BS 4401:Part 11:1995
	Moisture	CH 4021 based on BS 4401:Part 3:1997 (without sand)
	Moisture	CH 4004 based on BS 4401:Part 3:1997 (with sand)
	Moisture	CH 4026 based on BS 5766:Part 8:1983 using vacuum oven
Nitrogen	CH 4003 based on BS 4401:Part 2:1980	
Ochratoxin	CH 4038 by HPLC using R-Biopharm kit	



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FOODS AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
	Patulin	CH 4032 based on ISO 8128-1 using HPLC
	Peroxide Value	CH 4002 based on BS 684-2.14:2001 by titration
	pH	CH 4014 using a pH meter
	Protein	CH 4028 based on BS EN ISO 14891:2002 using DUMAS
	Salt	CH 4010 based on BS 4401:Part 3:1970
	Starch Content	CH 4033 based on AOAC 996.11 using spectrophotometry
	Sodium	CH 4011 based on EEC/71/250 using flame photometry
	Sugars	1) CH 4008 based on Pearsons 9 th Edition: Luff School 2) CH 4034 using aqueous extraction and HPLC
	Carbohydrate by difference	CH 4902
	Energy by calculation	CH 4903
	Meat content by calculation	CH 4904
	FOOD, FOOD PRODUCTS and BEVERAGES (non-alcoholic)	Vitamin C
FOODS AND FOOD PRODUCTS	<u>Microbiological Tests</u>	Documented In-House Methods:
	Anaerobic Colony Count	TP 4101 using RCA at 30 °C
	Anaerobic Sulphite-Reducing bacteria	TP 4117 based on BS ISO 15213:2003
	<i>Bacillus cereus</i> , presumptive	TP 4108 based on BS EN ISO 7932:2004



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FOODS AND FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:
	<i>Campylobacter spp</i>	TP 4129 using Brilliance chromogenic agar
	<i>Clostridium perfringens</i> , confirmed	TP 4105 based on BS EN ISO 7937:2004
	Enumeration:	
	Coliforms, presumptive	1) TP 4102 based on BS ISO 4832:2006 incubated at 37 °C 2) TP 4146 based on BS ISO 4832:2006 using spiral plate technology, incubated at 37 °C
	<i>Escherichia coli</i> (Beta glucuronidase positive)	1) TP 4133 based on BS ISO 16649-2:2001 using TBX agar 2) MS 4001 using membranes based on BS ISO 16649-1:2001
	Enterobacteriaceae, presumptive	1) TP 4103 based on BS ISO 21528-2:2004 2) TP 4147 based on BS ISO 21528-2:2004 using spiral plate technology
	Faecal streptococci, presumptive	TP 4107 using Kanamycin Aesculin Agar using pour plate
Lactic acid bacteria, presumptive	1) TP 4114 based on BS ISO 15214:1998 2) TP 4149 based on BS ISO 15214:1998 using spiral plate technology	
<i>Listeria spp. including Listeria monocytogenes</i> , enumeration	TP 4152 based on ISO 11290-2:1998:A1:2004 Confirmation using Microgen biochemical profiling	



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FOODS AND FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) Moulds for products with Aw >0.95 Moulds for products with Aw ≤0.95 <i>Pseudomonas</i> spp, presumptive and/or confirmed Coagulase positive staphylococci including <i>Staphylococcus aureus</i> , confirmed Total aerobic colony count at 30 °C Yeasts for products with Aw >0.95 Yeasts for products with Aw >0.95 Yeasts for products with Aw≤0.95 Detection: Campylobacter spp <i>Salmonella</i> spp, confirmed Identified to group level	Documented In-House Methods: TP4109 based on BS ISO 21527-1:2008 TP4112 based on BS ISO 21527-2:2008 1) TP 4115 based on ISO 13720:2010 2) TP 4150 based on ISO 13720:2010 using spiral plate technology TP 4106 based on ISO 6888-1:1999 1) TP 4100 based on BS EN ISO 4833:2003 2) TP 4145 based on BS EN ISO 4833:2003 using spiral plate technology TP4109 based on BS ISO 21527-1:2008 TP4148 based on BS ISO 21527-1:2008 using spiral plating TP4112 based on BS ISO 21527-2:2008 TP 4128 based on BS EN ISO 10272-1:2006 TP 4119 based on EN ISO 6579:2002 + A1:2007



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FOODS AND FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd) Detection: (cont'd) <i>Salmonella spp</i> (motile), confirmed Identified to group level <i>Listeria spp. including Listeria monocytogenes</i> , confirmed <i>Listeria spp</i> , including <i>Listeria monocytogenes</i> confirmed <i>Escherichia coli</i> , confirmed <i>Escherichia coli</i> O157 (presumptive) <i>Escherichia coli</i> O157 (presumptive)	Documented In-House Methods: TP 4120 based on AOAC 993.07 (1993) using MSRV agar. Confirmation using biomerieux API20E and serology TP 4141 using selective enrichment and ALOA agar Confirmation using Microgen biochemical profiling TP 4151 based on ISO 11290:1:1997 A1:2004 Confirmation using Microgen biochemical profiling TP 4122 using single enrichment and confirmation with TBX TP 4131 using selective enrichment and IMS based on BS EN ISO 16654:2001 TP 4158 based on AOAC 2000.14 (Singlepath E coli O157 GLISA)
Dairy products, infant feeds and components	<i>Cronobacter sakazakii</i> (<i>Enterobacter sakazakii</i>) Enumeration:	TP 4118 based on ISO/TS 22964:2006
Meat and Meat products	Total aerobic colony count at 30 °C	1) TP 4110 based on BS EN ISO 4833:2003 with 48 hrs incubation 2) TP 4153 based on BS EN ISO 4833:2003 using spiral plate technology with 48 hrs incubation



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<p>WATERS</p> <p>Rinse waters from food contact surfaces</p>	<p><u>Chemical Tests</u></p> <p>Allergens:</p> <ul style="list-style-type: none"> - Almond - Casein 0.5-13.5ppm - Egg White - Gluten > 5 ppm - Hazel Nut - Peanut 	<p>Documented In-House Methods</p> <p>MBP 4018 ELISA immunoassay using R-Biopharm kit</p> <p>MBP 4017 ELISA immunoassay using R-Biopharm kit</p> <p>MBP 4017 ELISA immunoassay using R-Biopharm kit</p> <p>MBP 4013 ELISA immunoassay using R-Biopharm kit</p> <p>MBP 4021 ELISA immunoassay using R-Biopharm kit</p> <p>MBP 4014 ELISA immunoassay using R-Biopharm kit</p>
<p>Potable</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration:</p> <p>Total colony count at 22 °C and 37 °C</p> <p>Enumeration and Detection:</p> <p>Coliforms and <i>Escherichia coli</i></p> <p><i>Clostridium perfringens</i> and sulphite reducing clostridia</p> <p>Enterococci</p>	<p>Documented In-House Methods:</p> <p>TP 4135 using yeast extract agar based on 'The Microbiology of Drinking Water, Part 7 (2007)'</p> <p>TP 4136 using enumeration by Quantitray (IDEXX) based on 'The Microbiology of Drinking Water, Part 4D (2009)'</p> <p>TP 4143 based on 'The Microbiology of Drinking Water, Part 6 (2010)'</p> <p>TP 4137 based on 'The Microbiology of Drinking Water, Part 5 (2010)'</p>
	<p>END</p>	