

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: 030 Issue date: 18 May 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 |



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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> Unspecified Allergen detection Specified Allergen detection: - Almond - β -lactoglobulin - Casein 0.5-13.5ppm - Egg White - Gluten > 5 ppm - Hazel Nut - Mustard | Documented In-House Methods Generic procedure MBP 4030A to support the detection of additional allergens using commercial Immunoassay (ELISA) kits and flexible scope process. MBP 4018 ELISA immunoassay using R-Biopharm kit MBP 4028 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 4020 ELISA immunoassay using R-Biopharm kit |



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| ENVIRONMENTAL SWABS (cont'd) | <u>Chemical Tests</u> (cont'd) Specified Allergen detection: (cont'd) - Peanut - Soya Protein <u>Microbiological Tests</u> Detection: Campylobacter spp <i>Salmonella</i> spp, confirmed Identified to group level <i>Salmonella</i> spp (motile), confirmed Identified to group level <i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed <i>Listeria</i> spp including <i>Listeria monocytogenes</i> confirmed <i>Escherichia coli</i> , confirmed Enumeration: <i>Bacillus cereus</i> , presumptive Coliforms, presumptive Enterobacteriaceae, presumptive | Documented In-House Methods MBP 4014 ELISA immunoassay using R-Biopharm kit MBP 4019 ELISA immunoassay using Neogen Veratox kit. Documented In-House Methods TP 4128 based on BS EN ISO 10272-1:2006 TP 4119 based on EN ISO 6579:2002 + A1:2007 Confirmation using biomerieux API 20E and serology TP 4120 based on AOAC 993.07 (1993) TP 4141 using selective enrichment and ALOA agar with 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 on TBX TP 4108 based on BS EN ISO 7932:2004 TP 4102 based on BS ISO 4832:2006 TP 4103 based on BS ISO 21528-2:2004 |



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| ENVIRONMENTAL SWABS (cont'd) | <u>Microbiological Tests</u> (cont'd) Enumeration: (cont'd) <i>Escherichia coli</i> O157 (presumptive) <i>Escherichia coli</i> (Beta glucuronidase positive) Faecal streptococci, presumptive Lactic acid bacteria, presumptive <i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed Moulds <i>Pseudomonas</i> spp, presumptive Coagulase positive staphylococci including <i>Staphylococcus aureus</i> , confirmed Total aerobic colony count at 30 °C Yeasts | Documented In-House Methods TP 4131 using selective enrichment and IMS based on BS EN ISO 16654:2001 TP 4133 based on BS ISO 16649-2:2001 using TBX agar TP 4107 using Kanamycin Aesculin Agar pour plate TP 4114 based on BS ISO 15214:1998 TP 4152 based on ISO 11290-2:1998:A1:2004 Confirmation using Microgen biochemical profiling TP4109 based on BS ISO 21527-1:2008 TP4115 based on ISO 13720:2010 TP 4106 based on ISO 6888-1:1999 TP 4100 based on BS EN ISO 4833:2003 TP4109 based on BS ISO 21527-1:2008 |



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| FOODS AND FOOD PRODUCTS | <u>Chemical Tests</u> Allergen detection: Flexible scope Allergen detection: - Almond - β -lactoglobulin - Casein 0.5-13.5ppm - Egg White - Gluten > 5 ppm - Hazel Nut - Mustard - Peanut - Soya Protein | Documented In-House Methods Generic procedure MBP 4030A to support the detection of additional allergens using commercial Immunoassay (ELISA) kits and flexible scope process. MBP 4018 ELISA immunoassay using R-Biopharm kit MBP 4028 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 4020 ELISA immunoassay using R-Biopharm kit MBP 4014 ELISA immunoassay using R-Biopharm kit MBP 4019 ELISA immunoassay using Neogen Veratox kit. |
| Fish and Fish Products | - Histamine | MBP 4023 ELISA immunoassay using R-Biopharm kit |
| FOODS AND FOOD PRODUCTS | <u>Chemical Tests</u> Aflatoxins Ash | Documented In-House Methods CH 4027 by HPLC using R-Biopharm kit CH 4006 based on BS 4401:Part 1:1998 |



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| FOODS AND FOOD PRODUCTS (cont'd) | <u>Chemical Tests</u> (cont'd) | Documented In-House Methods |
| | 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 |
| Patulin | CH 4032 based on ISO 8128-1 using HPLC | |



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| FOODS AND FOOD PRODUCTS (cont'd) | <u>Chemical Tests</u> (cont'd) | Documented In-House Methods |
| | Peroxide Value | CH 4002 based on BS 684-2.14:2001 by titration |
| | pH | CH 4015 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 | CH 4039 based on BS EN 14130:2003 using HPLC |
| 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 |
| | <i>Campylobacter spp</i> | TP 4129 using Brilliance chromogenic agar |



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| FOODS AND FOOD PRODUCTS (cont'd) | <u>Microbiological Tests</u> (cont'd) <i>Clostridium perfringens</i> , confirmed Enumeration: Coliforms, presumptive <i>Escherichia coli</i> (Beta glucuronidase positive) Enterobacteriaceae, presumptive Faecal streptococci, presumptive Lactic acid bacteria, presumptive <i>Listeria spp. including Listeria monocytogenes</i> , enumeration Moulds for products with Aw >0.95 | Documented In-House Methods: TP 4105 based on BS EN ISO 7937:2004 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 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 1) TP 4103 based on BS ISO 21528-2:2004 2) TP 4147 based on BS ISO 21528-2:2004 using spiral plate technology TP 4107 using Kanamycin Aesculin Agar using pour plate 1) TP 4114 based on BS ISO 15214:1998 2) TP 4149 based on BS ISO 15214:1998 using spiral plate technology TP 4152 based on ISO 11290-2:1998:A1:2004 Confirmation using Microgen biochemical profiling TP4109 based on BS ISO 21527-1:2008 |



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| FOODS AND FOOD PRODUCTS (cont'd) | <p><u>Microbiological Tests</u> (cont'd)</p> <p>Enumeration: (cont'd)</p> <p>Moulds for products with Aw ≤0.95</p> <p><i>Pseudomonas</i> spp, presumptive and/or confirmed</p> <p>Coagulase positive staphylococci including <i>Staphylococcus aureus</i>, confirmed</p> <p>Total aerobic colony count at 30 °C</p> <p>Yeasts for products with Aw >0.95</p> <p>Yeasts for products with Aw >0.95</p> <p>Yeasts for products with Aw ≤0.95</p> <p>Detection:</p> <p>Campylobacter spp</p> <p><i>Salmonella</i> spp, confirmed Identified to group level</p> <p><i>Salmonella</i> spp (motile), confirmed Identified to group level</p> | <p>Documented In-House Methods:</p> <p>TP4112 based on BS ISO 21527-2:2008</p> <p>1) TP 4115 based on ISO 13720:2010</p> <p>2) TP 4150 based on ISO 13720:2010 using spiral plate technology</p> <p>TP 4106 based on ISO 6888-1:1999</p> <p>1) TP 4100 based on BS EN ISO 4833:2003</p> <p>2) TP 4145 based on BS EN ISO 4833:2003 using spiral plate technology</p> <p>TP4109 based on BS ISO 21527-1:2008</p> <p>TP4148 based on BS ISO 21527-1:2008 using spiral plating</p> <p>TP4112 based on BS ISO 21527-2:2008</p> <p>TP 4128 based on BS EN ISO 10272-1:2006</p> <p>TP 4119 based on EN ISO 6579:2002 + A1:2007</p> <p>TP 4120 based on AOAC 993.07 (1993) using MSR/V agar. Confirmation using biomérieux API20E and serology</p> |



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| FOODS AND FOOD PRODUCTS (cont'd) | <u>Microbiological Tests</u> (cont'd) Detection: (cont'd) <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) <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i> | Documented In-House Methods: 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) TP 4104 based on DD ISO/TS 21872-1:2007 |
| 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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| WATERS | <u>Chemical Tests</u> | Documented In-House Methods |
| | Allergen detection: Flexible scope | Generic procedure MBP 4030A to support the detection of additional allergens using commercial Immunoassay (ELISA) kits and flexible scope process. |
| Rinse waters from food contact surfaces | Allergen detection: - Almond - β -lactoglobulin - Casein 0.5-13.5ppm - Egg White - Gluten > 5 ppm - Hazel Nut - Mustard - Peanut - Soya Protein | MBP 4018 ELISA immunoassay using R-Biopharm kit MBP 4028 ELISA immunoassay using R-Biopharm kit MBP 4017 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 4020 ELISA immunoassay using R-Biopharm kit MBP 4014 ELISA immunoassay using R-Biopharm kit MBP 4019 ELISA immunoassay using Neogen Veratox kit. |
| Potable | <u>Microbiological Tests</u> Enumeration: Total colony count at 22 °C and 37 °C | Documented In-House Methods: TP 4135 using yeast extract agar based on 'The Microbiology of Drinking Water, Part 7 (2007)' |



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| WATERS (cont'd) | <u>Microbiological Tests</u> (cont'd) Enumeration and Detection: <i>Coliforms and Escherichia coli</i> <i>Clostridium perfringens</i> and sulphite reducing clostridia Enterococci | Documented In-House Methods TP 4136 using enumeration by Quantitray (IDEXX) based on 'The Microbiology of Drinking Water, Part 4D (2009)' TP 4143 based on 'The Microbiology of Drinking Water, Part 6 (2010)' TP 4137 based on 'The Microbiology of Drinking Water, Part 5 (2010)' |
| | END | |