


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>1916</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>Microsearch Laboratories Ltd</b></p> <p>Issue No: 077 Issue date: 18 December 2024</p>	
	<p><b>Unit 1B</b>  <b>Moderna Business Park</b>  <b>Moderna Way</b>  <b>Mytholmroyd</b>  <b>Hebden Bridge</b>  <b>West Yorkshire</b>  <b>HX7 5QQ</b></p>	<p><b>Contact: Alana Travis</b>  <b>Tel: +44 (0)1422 885087</b>  <b>Fax: +44 (0)1422 883721</b>  <b>E-Mail: technical@micro-search.co.uk</b>  <b>Website: www.micro-search.co.uk</b></p>
<p><b>Testing performed by the Organisation at the locations specified</b></p>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b>  Unit 1B Moderna Business Park  Moderna Way  Mytholmroyd  Hebden Bridge  West Yorkshire  HX7 5QQ</p> <p><b>Local contacts</b>  Mr Jamie Simmonds (Chemistry)  Tel: 01422 885 087  E-Mail: Chemistry@micro-search.co.uk</p> <p>Mr Harun Arshad (Allergens)  Tel: 01422 885 087  E-Mail: Harun@micro-search.co.uk</p>	<p>Chemistry  Allergens</p>	<p>A</p>
<p><b>Address</b>  Brearley Lane  Luddendenfoot  Halifax  West Yorkshire  HX2 6JB</p> <p><b>Local contacts</b>  Alana Travis  Tel: 01422 885 087  E-Mail: technical@micro-search.co.uk</p> <p>Ms Anum Ali (Molecular Biology)  Tel: 01422 885 087  E-Mail: anum@micro-search.co.uk</p>	<p>Microbiology  Molecular Biology</p>	<p>B</p>



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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
ENVIRONMENTAL SWABS FOODS AND FOOD PRODUCTS, SETTLE PLATES and RINSE WATERS from food contact surfaces	<u>Chemical Tests</u>	Documented In-House Methods	
	Unspecified Allergen Detection	Generic procedures MBP 4030 to support the detection of additional allergens using commercial Immunoassay (ELISA) kits and molecular biology kits (PCR) and flexible scope process.	A
	Specified Allergen : Detection and Determination	Generic procedures MBP4016 and MBP4025 for extraction methods used in conjunction with determinant method:	A
	Almond	MBP 4018 ELISA immunoassay using R-Biopharm kit R6901	A
	$\beta$ -lactoglobulin	1) MBP 4028 ELISA immunoassay using R-Biopharm kit FAST kit R4912	A
		2) MBP 4067 ELISA immunoassay using Biocheck kits R6036/R6037	A
	Brazil	MBP 4046 ELISA immunoassay using Demeditec kit DEPARE 01	A
	Casein	1) MBP 4015 ELISA immunoassay using R-Biopharm kit R4612	A
		2) MBP 4068 ELISA immuneassay using Biocheck kit R6022/R6023	A
		3) MBP 4077 ELISA immunoassay using IFP ELISA Fast Casein kit A1011	A
Cashew	MBP 4039 ELISA immunoassay using Biocheck kit R6047/R6046	A	



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ENVIRONMENTAL SWABS FOODS AND FOOD PRODUCTS, SETTLE PLATES and RINSE WATERS from food contact surfaces (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Specified Allergen Detection and Determination (cont'd)	Generic procedures MBP4016 and MBP4025 for extraction methods used in conjunction with determinant method:	
	Egg White (and whole egg powder by calculation)	MBP 4017 ELISA immunoassay using R-Biopharm kit R6402	A
	Whole Egg Powder	MBP 4080 ELISA immunoassay based on IFP ELISAFast Ei/Egg Protein kit A1001	A
	Fish (as cod)	MBP4056 ELISA immunoassay using Biocheck kit R6009/R6010	A
	Gluten > 3 ppm	MBP 4013 ELISA immunoassay using R-Biopharm kit R7001	A
	Gluten	MBP 4079 ELISA immunoassay using extraction using R-Biopharm RIDASCREEN Cocktail Solution R7006/R7016 and determination based on IFP Gluten Ingenasa kit	A
	Hazel Nut	MBP 4021 ELISA immunoassay using R-Biopharm kit R6802	A
	Lupin	MBP4034 ELISA immunoassay using R-Biopharm Kit R6102	A
	Macadamia	MBP4063 ELISA immunoassay using Immunolaab kit MAC- E01/MAC-Eo4	A
	Milk	MBP4082 ELISA immunoassay using IFP ELISAFast Milk Kit A1021	A
	Milk Protein	1) MBP 4041 ELISA immunoassay using R- Biopharm kit R4652  2) MBP 4070 ELISA immunoassay using AgraQuant COKAL2448	A  A



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ENVIRONMENTAL SWABS FOODS AND FOOD PRODUCTS, SETTLE PLATES and RINSE WATERS from food contact surfaces (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Specified Allergen Detection and Determination (cont'd)	Generic procedures MBP4016 and MBP4025 for extraction methods used in conjunction with determinant method:	
	Mustard	MBP 4020 ELISA immunoassay using R-Biopharm kit R6152	A
	Peanut (>0.75 ppm) (and peanut protein by calculation)	MBP 4074 ELISA immunoassay using R-Biopharm kit R6811	A
	Pecan	MBP 4043 ELISA immunoassay using Demeditec kit DEPECE01	A
	Pistachio	MBP 4035 ELISA immunoassay using Biocheck kit R6042/R6043	A
	Sesame	MBP 4061 ELISA immunoassay using Biocheck kit R6028/R6029	A
	Crustacean	MBP 4029 ELISA immunoassay using R-Biopharm Ridascreen FAST Crustacean R7312	A
	Soya	MBP4083 ELISA immunoassay using IFP ELISAFast Soykit A1020	A
	Soya Protein	1) MBP 4019 ELISA immunoassay using Neogen Veratox kit 8410  2) MBP 4054 ELISA immunoassay using R-Biopharm kit R7102	A  A
Walnut	MBP 4057 ELISA immunoassay using Biocheck kit R6016/R6017	A	



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FOODS AND FOOD PRODUCTS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Specified Allergen Detection:		
Honey	Casein 0.5ppm	MBP 4015 ELISA immunoassay using R-Biopharm kit R4612	A
Fermented and Hydrolysed Foods	Gluten > 10 ppm	MBP 4058 ELISA immunoassay using R-Biopharm kit R7021	A
Fish and Fish Products, Shellfish, Cheese and Cheese Products	Histamine	MBP 4023 ELISA immunoassay using R-Biopharm kit R1601/R1604	A
FOOD AND FOOD PRODUCTS	Determination of Lactose	MBP 4027 using Megazyme Lactose Assay Kit (K-LOLAC) using spectrophotometry	A
ENVIRONMENTAL SWABS, SETTLE PLATES and RINSE WATERS from food contact surfaces	Lactose (Detection)	MBP 4027 using Megazyme Lactose Assay Kit (K-LOLAC) using spectrophotometry	A
FOODS AND FOOD PRODUCTS General unless otherwise specified	<u>Chemical Tests</u>	Documented In-House Methods	
	Acidity	CH 4050 based on Pearson's 9 <sup>th</sup> Edition: titration	A
	Aflatoxins	CH 4027 by HPLC using R-Biopharm kit	A
	Ash	CH 4006 based on BS 4401:Part 1:1998	A
	Available Water	CH 4012 using Novatron water activity meter	A
	Dietary Fibre	1) CH 4009 based on AOAC 985.29 1986	A
		2) CH 4008 using ANKOM automated TDF analysis based on AOAC 991.43	A



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Fat (Total)	CH 4005 based on BS 4401:Part 4:1970	A
	Fat (free)	CH 4022 using solvent extraction	A
	Fat (by acid hydrolysis)	CH 4031 based on BS 4401:Part 4:1970	A
	Fatty Acid Profile	CH 4029/4030 based on ISO 12966-1:2014 and ISO 12966-4:2015	A
	Free Fatty Acids	CH 4007 based on Pearsons 9 <sup>th</sup> Edition by titration	A
	Hydroxyproline	CH 4060 based on BS 4401:Part 11:1995	A
	Moisture	CH 4021 based on BS 4401:Part 3:1997 (without sand)	A
	Moisture	CH 4004 based on BS 4401:Part 3:1997 (with sand)	A
	Moisture	CH 4026 based on BS 5766:Part 8:1999 using vacuum oven	A
Meat and Meat Products (including brine, but excluding low MRL of 10mg/kg)	Nitrate	CH 4018 using aqueous extraction with HPLC/UV detection	A
Meat and Meat Products (including brine)	Nitrite	CH 4001 based on BS EN 12014-3:2005 using spectrophotometry	A
	Ochratoxin	CH 4038 by HPLC using R-Biopharm kit	A
	Patulin	CH 4032 based on BS EN ISO 15890-2010 using HPLC	A



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Including milk and milk products	Peroxide Value	CH 4002 based on BS EN ISO 03960-2017 by titration	A
	pH	CH 4015 using a pH meter	A
	Phosphorous	CH 4047 based on BS ISO 23776:2021 using spectrophotometry	A
	Potassium	CH 4046 using flame photometry	A
	Protein	CH 4028 based on BS EN ISO 14891:2002 using DUMAS	A
	Salt (and chloride by Calculation)	CH 4010 based on Pearson's 9 <sup>th</sup> Edition: titration	A
	Starch Content	CH 4033 based on AOAC 996.11 using spectrophotometry	A
	Sodium	CH 4011 based on EEC/71/250 using flame photometry	A
	Total Sugars	CH 4034 using aqueous extraction and HPLC	A
(excluding cabbage, dried garlic, dried onions, ginger, leeks and soy proteins)	Sulphur dioxide (SO <sub>2</sub> )	CH 4014 based on BS EN 1988-1:1998	A
FOOD AND FOOD PRODUCTS	Species identification (qualitative-LOD 1%) (beef, pork, poultry, sheep, horse)	MBP 4040 ELISA immunoassay using ELISA Tek Kit  Beef Kit 510611 Pork Kit 510621 Poultry Kit 510631 Sheep Kit 510641 Horse Kit 510651	A



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FOODS AND FOOD PRODUCTS (cont'd) Meat and Meat Products	<u>Chemical Tests (cont'd)</u> Calculated Values <ul style="list-style-type: none"> <li>- Carbohydrate by difference</li> <li>- Energy</li> <li>- Salt: estimated from sodium</li> <li>- Starch by difference</li> <li>- Total Solids</li> <li>- Added Water</li> <li>- Collagen</li> <li>- Collagen: Protein Ratio</li> <li>- Excess Connective Tissue</li> <li>- Excess Fat</li> <li>- Fat Free Meat</li> <li>- Maximum QUIDable Meat Content</li> <li>- Meat content</li> </ul>	Documented In-House Methods  CH 4905 by calculation from analytical data	A
FOOD, FOOD PRODUCTS and BEVERAGES (non-alcoholic)	Vitamin C (and sodium ascorbate by calculation)	CH 4039 In house method using HPLC	A





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDINGSTUFFS Including pet food	<u>Microbiological Tests</u>  Detection:  <i>Salmonella</i> spp, confirmed Identified to group level	Documented In-House Methods  1) TP 4119 based on BS EN ISO 6579-1:2017+A1:2020 Confirmation using Biomerieux API 20E and serology  2) TP 4160 based on BS EN ISO 6579-1:2017+A1:2020 Confirmation using biomerieux API 20E and serology. for the purpose of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (amended 2013)	B  B
(Pet Food only)	<i>Salmonella</i> spp, confirmed Identified to group level  Enumeration:  <i>Clostridium perfringens</i> , confirmed	TP 4177 In-house method using Neogen BPW HQ + OBOP-S supplement and CASE selective media. Confirmation by Biomerieux API 20E, Oxoid Latex kit and serological testing  1) TP 4105 based on BS EN ISO 15213-2:2023  2) TP 4162 based on BS EN ISO 15213-2:2023 for the purpose of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (amended 2013)	B  B



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ANIMAL FEEDINGSTUFFS Including pet food (cont'd)	<u>Microbiological Tests</u> (cont'd)  Enumeration: (cont'd)  Enterobacteriaceae, presumptive & confirmed	Documented In-House Methods  1) TP 4103 based on BS EN ISO 21528-2:2017  2) TP 4161 based on BS EN ISO 21528-2:2017 for the purpose of the Animal By-Products (Enforcement) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (amended 2013)	B  B
ENVIRONMENTAL SWABS	<u>Microbiological Tests</u>  Detection:  <i>Campylobacter</i> spp  <i>Salmonella</i> spp, confirmed Identified to group level  <i>Salmonella</i> spp (motile), confirmed. Identified to group level	Documented In-House Methods  TP 4128 based on BS EN ISO 10272-1:2017+A1:2023  1) TP4119 based on BS EN ISO 6579-1:2017+A1:2020. Confirmation using Biomerieux API 20E and serology  2) TP 4177 In-house method using Neogen BPW HQ + OBOP-S supplement and CASE selective media. Confirmation by Biomerieux API 20E, Oxoid Latex kit and serological testing  TP 4120 based on AOAC 993.07 (1993)	B  B



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Detection (cont'd)		
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> confirmed	1) TP 4151 based on BS EN ISO 11290-1:2017. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or Microbact 12L or API Listeria	B
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> confirmed	2) TP 4171 using Less Plus Broth selective enrichment and Pinnacle LCA. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or Microbact 12L or API Listeria	B
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	TP 4122 using single enrichment and confirmation with TBX	B
	<i>Escherichia coli</i> O157 (presumptive)	TP 4131 using selective enrichment and IMS based on BS EN ISO 16654:2001+A2:2023	B
	Enumeration:		
	<i>Bacillus cereus</i> , presumptive	TP 4108 based on BS EN ISO 7932:2004+A1:2020	B
	<i>Campylobacter</i> spp	TP 4138 based on BS EN ISO 10272-2:2017+A1:2023	B
Coliforms, presumptive	TP 4102 based on BS ISO 4832:2006	B	
<i>Clostridium perfringens</i> , confirmed	TP 4105 based on BS EN ISO 15213-2:2023	B	
Enterobacteriaceae, presumptive	TP 4103 based on BS EN ISO 21528-2:2017	B	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	Enumeration: (cont'd)		
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	1) TP 4133 based on BS ISO 16649-2:2001 using TBX agar	B
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	2) TP 4167 based on AOAC 998.08 using Petrifilm	B
	Enterococci (faecal streptococci), presumptive	TP 4107 using Kanamycin Aesculin Agar pour plate	B
	Lactic acid bacteria, presumptive	TP 4114 based on BS ISO 15214:1998	B
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed	TP 4152 based on BS EN ISO 11290-2:2017. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or Microbact 12L or API Listeria	B
	Moulds	TP4109 based on BS ISO 21527-1:2008	B
	<i>Pseudomonas</i> spp, presumptive	TP4115 based on BS EN ISO 13720:2010	B
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i> , confirmed	TP 4106 based on BS EN ISO 6888-1:2021+A1:2023	B
Total aerobic colony count at 30°C	TP 4100 based on BS EN ISO 4833-1:2013+A1: 2022	B	
Yeasts	TP4109 based on BS ISO 21527-1:2008	B	



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FOODS AND FOOD PRODUCTS General unless otherwise specified	<u>Microbiological Tests</u> Detection:	Documented In-House Methods	
	<i>Campylobacter</i> spp	TP 4128 based on BS EN ISO 10272-1:2017+A1:2023	B
Milk Powders, Chocolate Sauce, Protein Powders and Vitamin Premixes	Enterobacteriaceae	TP4164 using Single or Double Strength BPW enrichment with plating onto VRBGA, confirmation using OF medium and Oxidase	B
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	TP 4122 using single enrichment and confirmation with TBX	B
	<i>Escherichia coli</i> O157 (presumptive)	1) TP 4131 using selective enrichment and IMS based on BS EN ISO 16654:2001+ A2 2023  2) TP 4158 based on AOAC 2000.14 (Singlepath E coli O157 GLISA)	B  B
	<i>Listeria</i> spp, including <i>Listeria monocytogenes</i> confirmed	1) TP 4151 based on BS EN ISO 11290-1:2017. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or Microbact 12L or API Listeria  2) TP 4171 using Less Plus Broth selective enrichment and pinnacle LCA. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or using Microbact 12L or API Listeria	B  B
	<i>Salmonella</i> spp, confirmed Identified to group level	1) TP 4119 based on BS EN ISO 6579-1:2017+A1:2020	B



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)  (excluding herbs and spices)     Starch, Food Supplements, Infant Formula, Milk Powder	<u>Microbiological Tests (cont'd)</u>  Detection (cont'd)	Documented In-House Methods	
	<i>Salmonella</i> spp, confirmed Identified to group level	2) TP 4177 In-house method using Neogen BPW HQ + OBOP-S supplement and CASE selective media. Confirmation by Biomerieux API 20E, Oxoid latex kit and serological testing	B
	<i>Salmonella</i> spp (motile), confirmed Identified to group level	TP 4120 based on AOAC 993.07 (1993)	B
	<i>Vibrio cholera</i> , <i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i>	TP 4104 based on BS EN ISO 21872-1:2017+A1:2023	B
	<i>Cronobacter</i> spp.  Enumeration:	TP 4118 based on BS EN ISO 22964:2017	B
	Anaerobic Colony Count	TP 4101 using RCA at 30°C	B
	Anaerobic Sulphite-Reducing bacteria	TP 4117 In house method using pour plate and ISA	B
	<i>Bacillus cereus</i> , presumptive	TP 4108 based on BS EN ISO 7932:2004+A1:2020	B
	<i>Campylobacter</i> spp	TP 4138 based on BS EN ISO 10272-2:2017+A1:2023	B
<i>Clostridium perfringens</i> , confirmed	TP 4105 based on BS EN ISO 15213-2:2023	B	



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)  Milk and Milk products	<u>Microbiological Tests (cont'd)</u>  Enumeration: (cont'd)  Coliforms, presumptive	Documented In-House Methods:  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	  B  B
	Coliforms, presumptive	TP 4102 based on BS ISO 4832:2006 incubated at 30°C	B
	Enterobacteriaceae, presumptive	1) TP 4103 based on BS EN ISO 21528-2:2017 2) TP 4147 based on BS EN ISO 21528-2:2017 using spiral plate technology	B B
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	1) TP 4133 based on BS ISO 16649-2:2001 using TBX agar 2) TP 4167 based on AOAC 998.08 using Petrifilm	B B
	Enterococci (faecal streptococci), presumptive	TP 4107 using Kanamycin Aesculin Agar using pour plate	B
	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	B B
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed	1) TP 4152 based on BS EN ISO 11290-2:2017. Confirmation using Gram stain, D-Xylose, L-Rhamnose, $\beta$ -haemolysis and Catalase or Microbact 12L or API Listeria	B



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Microbiological Tests (cont'd)</u>  Enumeration: (cont'd)  <i>Listeria</i> spp including <i>Listeria monocytogenes</i> , confirmed (cont'd)	Documented In-House Methods:  2) TP4187A pour plate using Neogen LCA (OP-L) with confirmation by Gram Stain, Catalase and Oxoid Microbact 12L or Biomerieux API Listeria, or Neogen Carbohydrate utilisation broths (L-Rhamnose and D-Xylose)	B	
	Mesophilic aerobic spores	TP4155 customer defined method using pour plate technique with Plate count agar or plate count with milk agar following initial heat-treatment at 80°C. Incubation at 30°C for 72h in aerobic conditions	B	
	Mesophilic anaerobic spores	TP4156 customer defined method using pour plate technique with Reinforced Clostridial agar following initial heat-treatment at 80°C. Incubation at 30°C for 72hours in anaerobic conditions	B	
	for products with Aw >0.95	Moulds	TP4109 based on BS ISO 21527-1:2008	B
	for products with Aw ≤0.95	Moulds	TP4112 based on BS ISO 21527-2:2008	B
		<i>Pseudomonas</i> spp, presumptive and/or confirmed	1) TP 4115 based on BS EN ISO 13720:2010  2) TP 4150 based on BS EN ISO 13720:2010 using spiral plate technology	B  B
		Coagulase positive staphylococci including <i>Staphylococcus aureus</i>	TP 4106 based on BS EN ISO 6888-1:2021+A1:2023	B





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<p><b>FOODS AND FOOD PRODUCTS</b> General unless otherwise specified (cont'd)</p> <p>including milk and ice cream products</p> <p>meat &amp; meat products and milk &amp; ice cream products</p> <p>including meat and meat products</p> <p>meats and meat products</p> <p>for products containing small particles</p> <p>for products with <math>A_w &gt; 0.95</math></p> <p>for products with <math>A_w \leq 0.95</math></p>	<p><u>Microbiological Tests (cont'd)</u></p> <p>Enumeration: (cont'd)</p> <p>Total aerobic colony count</p> <p>Yeasts</p> <p>Yeasts</p>	<p>Documented In-House Methods:</p> <p>1) TP 4100 based on BS EN ISO 4833-1:2013+A1: 2022</p> <p>2) TP 4110 a pour plate method using Plate count agar at 30°C for 48h</p> <p>3) TP 4145 based on BS EN ISO 4833-2:2013+A1:2022</p> <p>4) TP 4153 a surface spread plate method using Plate count agar at 30°C for 48h with spiral plate technology</p> <p>5) TP 4165 based on BS EN ISO 4833-2:2013+A1:2022</p> <p>1) TP4109 based on BS ISO 21527-1:2008</p> <p>2) TP4148 based on BS ISO 21527-1:2008 using spiral plating</p> <p>TP4112 based on BS ISO 21527-2:2008</p>	<p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p>



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WATERS	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:	
DRINKING, including bottled water	Enumeration: (cont'd)  Total colony count at 22°C and 37°C	TP 4135 using yeast extract agar based on The Microbiology of Drinking Water, Part 7 (2020)	B
DRINKING	Enumeration & Detection:  Coliforms and <i>Escherichia coli</i>	TP 4136 using enumeration by Quantitray (IDEXX) based on The Microbiology of Drinking Water, Part 4D 2016	B
DRINKING, including bottled water	Coliforms, Faecal Coliforms and <i>Escherichia coli</i>	TP 4173 based on The Microbiology of Drinking Water, Part 4B 2016	B
DRINKING WATERS	<i>Clostridium perfringens</i> and sulphite reducing clostridia	TP 4143 based on The Microbiology of Drinking Water, Part 6 2021	B
DRINKING, including bottled water	Enterococci	TP 4137 based on 'The Microbiology of Drinking Water, Part 5A (2012)	B
DRINKING, including bottled water	<i>Pseudomonas aeruginosa</i>	TP 4116 based on The Microbiology of Drinking Water, Part 8B 2015	B
ENVIRONMENTAL SWABS	<u>Molecular Biology Tests</u>  Detection of:  <i>Salmonella</i> species DNA	Documented In-House Methods  MBP 4202 by real-time PCR using the Congen SureFast Salmonella Plus Kit following primary enrichment in Buffered Peptone Water. Confirmation of Cultural Organisms using method TP4119	B



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ENVIRONMENTAL SWABS (cont'd)	<u>Molecular Biology Tests</u> (cont'd)	Documented In-House Methods	
	Detection of: (cont'd)		
	<i>Salmonella</i> species DNA	MPB 4401 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System, <i>Salmonella</i> Assay 2 Kit with primary enrichment in Buffered Peptone Water. Confirmation of Cultural Organisms using method TP4119	B
	<i>Listeria</i> species DNA	MBP 4203 by real-time PCR using the Congen SureFast <i>Listeria</i> Screening Plus Kit following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
	<i>Listeria</i> species DNA	MBP 4402 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System <i>Listeria</i> Assay 2 Kit, following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
	<i>Listeria monocytogenes</i> DNA	MBP 4208 by real-time PCR using the Congen SureFast <i>Listeria</i> monocytogenes Plus Kit following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
	<i>Listeria monocytogenes</i> DNA	MBP 4403 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System <i>Listeria monocytogenes</i> Assay 2 Kit, following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOODS AND FOOD PRODUCTS General unless otherwise specified	<u>Molecular Biology Tests</u> (cont'd)	Documented In-House Methods	
	Detection of: (cont'd)		
	<i>Salmonella</i> species DNA	MBP 4202 by real-time PCR using the Congen SureFast Salmonella Plus Kit following primary enrichment in Buffered Peptone Water. Confirmation of Cultural Organisms using method TP4119	B
	<i>Salmonella</i> species DNA	MPB 4401 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System, <i>Salmonella</i> Assay 2 Kit with primary enrichment in Buffered Peptone Water. Confirmation of Cultural Organisms using method TP4119	B
	<i>Listeria</i> species DNA	MBP 4203 by real-time PCR using the Congen SureFast Listeria Screening Plus Kit following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
	<i>Listeria</i> species DNA	MBP 4402 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System Listeria Assay 2 Kit, following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
	<i>Listeria monocytogenes</i> DNA	MBP 4208 by real-time PCR using the Congen SureFast Listeria monocytogenes Plus Kit following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Molecular Biology Tests</u> (cont'd)  Detection of: (cont'd)  <i>Listeria monocytogenes</i> DNA	Documented In-House Methods  MBP 4403 by Loop Mediated Isothermal Amplification using the 3M Molecular Detection System <i>Listeria monocytogenes</i> Assay 2 Kit, following selective enrichment in Half Fraser Broth. Confirmation of Cultural Organisms using method TP4151	B
MICROBIOLOGICAL CULTURES presumptive <i>Listeria monocytogenes</i> isolates from respective food and environmental detection and/or enumeration methods	Confirmation/Identification:  <i>Listeria monocytogenes</i>	MBP 4208 by real-time PCR using the Congen SureFast <i>Listeria monocytogenes</i> Plus Kit	B
FOODS AND FOOD PRODUCTS General unless otherwise specified	<u>Molecular Biology tests</u>  Unspecified Allergen DNA detection and semi Quantification  Determination of celery DNA	Documented In-House Methods  Generic procedures MBP 4030 to support the detection of additional allergens using commercial molecular biology kits (PCR) and flexible scope process.  1) MBP4101 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Celery ID S3605 with Roche LightCycler 96	A  A



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Molecular Biology tests</u> (cont'd)	Documented In-House Methods	
	Determination of celery DNA (cont'd)	2) MBP4301 by DNA extraction method MBP4300 using IFP DNA Complete Food Extraction Kit and IFP DNA Complete Celery Kit D2033 with Roche LightCycler 96	A
	Determination of Fish DNA	MBP4113 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Fish ID S3610 with Roche LightCycler 96	A
	Determination Mollusc DNA	MBP4104 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Mollusc ID S3613 with Roche LightCycler 96	A
	Determination of Mustard DNA	1) MBP4107 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen SureFood Kit ID S3609 with Roche LightCycler 96	A
	Determination of Mustard DNA	2) MBP4304 by DNA extraction method MBP4300 using IFP Complete Food Extraction Kit and IFP Complete Mustard Kit D2018 with Roche LightCycler 96	A
	Determination of Peanut DNA	1) MBP4102 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen SureFood Kit S3603 with Roche LightCycler 96	A



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FOODS AND FOOD PRODUCTS General unless otherwise specified (cont'd)	<u>Molecular Biology tests</u> (cont'd)	Documented In-House Methods	
	Determination of Peanut DNA (cont'd)	2) MBP 4302 by DNA extraction method MBP4300 using IFP DNA Complete Food - Extraction Kit D1002 and IFP DNA Complete Peanut Kit D2002 with Roche LightCycler 96	A
	Determination of Sesame DNA	MBP4127 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen SureFood Kit S3608 with Roche LightCycler 96	A
	Determination of Soya DNA	MBP4109 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Soya ID S3601 with Roche LightCycler 96	A
ENVIRONMENTAL SAMPLES Swabs, rinse waters and settle plates	Detection of celery DNA	MBP4101 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Celery ID S3605 with Roche LightCycler 96	A
	Detection of Fish DNA	MBP4113 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Fish ID S3110 or S3610 with Roche LightCycler 96	A
	Detection of Mollusc DNA	MBP4104 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Mollusc ID S3613 with Roche LightCycler 96	A



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ENVIRONMENTAL SAMPLES Swabs, rinse waters and settle plates (cont'd)	<u>Molecular Biology tests</u> (cont'd)	Documented In-House Methods	
	Detection of Sesame DNA	MBP4127 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Soya ID S3608 with Roche LightCycler 96	A
	Detection of Soya DNA	MBP4109 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen Kit Surefood Soya ID S3601 with Roche LightCycler 96	A
ENVIRONMENTAL SWABS FOODS AND FOOD PRODUCTS	Qualitative determination of animal and fish species	Generic procedure MBP4030 to support the qualitative determination of animal and fish species using commercial Molecular Biology (PCR) kits and flexible scope process	A





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FOODS AND FOOD PRODUCTS General unless otherwise specified	<u>Molecular Biology tests</u> (cont'd)	Documented In-House Methods	A
	Qualitative determination of animal Species (0.1% LOD): Cow, Pig, Sheep, Chicken, Horse, Turkey, Goat, Poultry and Ruminant, Fallow Deer, Fish, Water Buffalo, Duck and Animal DNA) – as defined:  Cow Pig Chicken Sheep Horse Turkey Goat Poultry Ruminant Fallow Deer Fish Water buffalo Duck Animal	MBP4501 by DNA extraction using MBP4500 Thermo Fisher GMO Extraction kit and Thermo Fisher RapidFinder Kits and Roche LightCycler 96  A24391 A24392 A24393 A24395 A15570 A24394 IMG-175 A24397 A24396 IMG-177 IMG-174 IMG-188 IMG-241 IMG-230	
Food & Feed	GMO Screen	MBP4110 by DNA extraction method MBP4100 using SureFood Prep Advanced Kit and Congen SureFood Kit using SureFood GMO Screen 4plex 35S/NOS/FMV + IAC and GMO Screen 4plex BAR/NPTII/PAT/CTP2:CP4 EPSPS & LightCycler96	A

END