

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0342</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<b>Eurofins Food Testing UK Ltd</b>	
	<b>Issue No: 095    Issue date: 30 November 2018</b>	
	<b>i54 Business Park</b> <b>Valiant Way</b> <b>Wolverhampton</b> <b>WV9 5GB</b> <b>United Kingdom</b>	<b>Contact: Claire Keel</b> <b>Tel: +44 (0)1902 627200</b> <b>Fax: +44 (0)1902 746183</b> <b>E-Mail: clairekeel@eurofins.co.uk</b> <b>Website: www.eurofins.com</b>
<b>Testing performed by the Organisation at the locations specified</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Eurofins Food Testing UK Ltd i54 Business Park Valiant Way Wolverhampton WV9 5GB</p> <p><b>Local contact, Chemistry</b> Mrs Carol Giles  Tel: +44 (0)7894 567746 Fax: +44 (0)1902 746183 E-Mail: CarolGiles@eurofins.co.uk</p> <p><b>Local contact, Microbiology</b> Mr Stuart Smith  Tel: +44 (0)7587 038511 Fax: +44 (0)1902 627296 Email: stuartsmith@eurofins.co.uk</p>	Chemistry, Microbiology	B
<p><b>Address</b> Eurofins Food Testing UK Ltd Unit 28/32 Brunel Road Acton London W3 7XR</p> <p><b>Local contact</b> Mr Graeme Jardine  Tel: +44 (0)20 8222 6070 Fax: +44 (0)20 8222 6080 Email: graemejardine@eurofins.co.uk</p>	Microbiology	A



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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 FEEDINGSTUFFS	<u>Chemical Tests</u>	Documented In-House Methods	
	Ash	Q/001 using Gravimetry	B
	Crude Fibre	H/006 using Fibertec	B
	Free fatty acids and acid value	K/076 using titration and calculation of acid value	B
	Moisture	H/007 by gravimetric determination	B
	Nitrogen/Crude protein	Z/001 by Dumas Method	B
	Oil (free)	H/036 by solvent extraction	B
	Oil (total)	H/034 by acid hydrolysis and solvent extraction	B
	Peroxide value	K/075 by manual or automatic titration	B
	Starch	H/050 by polarimetry	B
	Sugar	H/044 by Luff-Schoorl method	B
	Amylase Neutral Detergent Fibre	H/016 using refluxing and gravimetric weighing (following procedure MAFF PB1285: Prediction of Energy Values of Compound Foods for Farm Animals)	B
	Neutral cellulose plus gamanase digestibility	H/015 using enzyme digestion, muffle furnace (following procedure MAFF PB1285: Prediction of Energy Values of Compound Foods for Farm Animals)	B
Moisture	H/077 based on BS EN ISO 712:2009	B	



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ANIMAL FEEDINGSTUFFS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Aflatoxin B1, B2, G1, G2 and Total	CHROM/120 using immunoaffinity column clean-up and HPLC	B
	Fluoride	I/048 by fluoride electrode	B
	Nitrate and Nitrite	I/056 based on BS4401:Part 7:1976 using air-segmented continuous flow analyser	B
	Vitamin A & E	CHROM/352 using HPLC with fluorescence detection	B
	<u>Elemental analysis:</u>		
	Boron, Calcium, Copper, Iron, Magnesium, Manganese, Phosphorus, Potassium, Sodium, Sulphur, Zinc	I/046 sample preparation procedure methods 1, + 13 and ICP/003 using Inductively Coupled Plasma Spectrophotometry Optical Emission Spectrometry (ICP-OES)	B
Arsenic, Aluminium, Barium, Boron, Cadmium, Caesium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum, Nickel, Rubidium, Selenium Strontium, Tin, Uranium, Vanadium, Zinc	I/046 - method 13 (sample extraction method) and ICPMS/010 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B	
Iodine	ICPMS/002 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B	



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BOTANICAL MATERIALS  - Leaf materials - Roots - Shoots	<u>Chemical Tests</u>  Fluoride	Documented In-House Methods  I/048 by fluoride electrode	B
	<u>Elemental analysis:</u>  Determination of elemental extracts:  Boron, Calcium, Copper, Iron, Magnesium, Manganese, Phosphorus, Potassium, Sodium, Sulphur, Zinc	I/046 sample preparation procedure methods 1, + 13 and ICP/003 using Inductively Coupled Plasma Spectrophotometry Optical Emission Spectrometry (ICP-OES)	B
	Aluminium, Arsenic, Barium, Boron, Cadmium, Caesium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum, Nickel, Rubidium, Selenium, Strontium, Tin, Uranium, Vanadium, Zinc	I/046 - method 13 (sample extraction method) and ICPMS/010 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B
FOOD AND FOOD PRODUCTS  General Foods	<u>Chemical Tests</u>	Documented In-House Methods	
	Acidity	H/074 using potentiometric titration	B
	Ash	Q/001 by gravimetric determination	B
	Brix	Q/037 by refractometry	B
	Chloride	Q/012 by Volhard titrimetric method	B
Fat	Q/002 by gravimetric determination	B	



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FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods		
	Fat	H/090 using NMR fat analyser	B	
	Fatty acid profile	CHROM/215 by GC	B	
	Dietary Fibre	H/085 following AOAC procedure using Fibretech system	B	
	Free fatty acids and acid value	K/076 using titration and calculation of acid value	B	
	Fluoride	I/048 by fluoride electrode	B	
	Moisture (12-100%), (wet foods and wet pet foods with sugar content <15%, excludes raw pet food ingredients)	Q/005 by gravimetric determination	B	
	Moisture	H/091 using Oven Drying and Gravimetric weighing	B	
	Nitrogen/Crude protein		1) Z/001 by Dumas combustion method	B
			2) Z/002 by Kjeldahl	B
	Peroxide value	K/075 by manual or automatic titration	B	
	Preservatives (organic) Benzoic acid, Sorbic acid	CHROM/131 by HPLC	B	
	Sulphur dioxide	Q/020 by titrimetry	B	
	Sugars	CHROM/104 by HPLC	B	
Sugars: Fructose, galactose, glucose, lactose, maltose, sucrose	CHROM/344 by anion exchange chromatography and pulsed amperometric detection	B		
Lactose (low level)	CHROM/356 by anion exchange chromatography and pulsed amperometric detection (IC-PAD)	B		
Sweeteners	CHROM/129 by HPLC	B		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Water Activity	H/081 by water activity meter	B
	Calculations based on results of accredited tests: Added Water Apparent Fat Free Meat Apparent Total Meat Apparent Total Fish Content EU Meat Content Total Carbohydrate Carbohydrate (available) Collagen Collagen: Protein ratio Excess Connective Tissue Excess Fat Total Energy (as Kcals and KJ)	Q/035 by calculation	B
	<u>Physical Tests</u>		
	pH	Q/009 by pH electrode	B
FOOD AND FOOD PRODUCTS and SWABS	<u>Chemical Tests</u>	Documented In-House Methods	
	<u>Allergens:</u>		
	Detection and determination of allergens	Methods developed and validated according to flexible scope procedure ALA/032 using commercial ELISA kits	B
	beta - Lactoglobulin	CHROM/125 by ELISA	B
	Hazelnut	ALA/025 using the Ridascreen ELISA kit	B
Peanut	ALA/007 using Neogen Peanut Assay ELISA kit	B	
Sesame	ALA/006 using ELISA SYSTEMS sesame seed protein assay kit	B	



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FOOD AND FOOD PRODUCTS and SWABS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	<u>Allergens:</u> (cont'd)		
	Soya	ALA/023 using ELISA SYSTEMS soy protein assay kit	B
	Almond	ALA/024 using R-Biopharm Ridascreen FASR Almond ELISA kit	B
	Casein	ALA/016 using R-Biopharm Ridascreen FAST Casein ELISA kit	B
	Egg White Protein	ALA/015 using Neogen Egg Assay ELISA kit	B
	Gluten	ALA/018 using R-Biopharm Ridascreen Gliadin R5 ELISA kit	B
	Histamine	ALA/010 using R-Biopharm Ridascreen Histamine ELISA kit	B
FOOD AND FOOD PRODUCTS	<u>Chemical Tests</u>  <u>Elemental analysis:</u>  Determination of elemental extracts:  Boron, Calcium, Copper, Iron, Magnesium, Manganese, Phosphorus, Potassium, Sodium, Sulphur, Zinc	I/046 sample preparation procedure methods 1, + 13 and ICP/003 using Inductively Coupled Plasma Spectrophotometry Optical Emission Spectrometry (ICP-OES)	B



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FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
	Aluminium, Arsenic, Barium, Boron, Cadmium, Caesium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum, Nickel, Rubidium, Selenium, Strontium, Tin, Uranium, Vanadium, Zinc	I/046 - method 13 (sample extraction method) and ICPMS/010 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B
	Iodine	ICPMS/002 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B
	Vitamin A & E	CHROM/352 using HPLC with fluorescence detection	B
	Total Vitamin C	CHROM/353 using HPLC with fluorescence detection	B
Alcoholic beverages	Alcoholic strength	H096 using specific density by obscuration	B
	Alcohol content	H097 using Anton Parr density meter	B
	Congeners: Acetaldehyde Methanol Ethanol Isopropanol t-Butanol t-Propanol Ethyl acetate Iso-Butanol n-Butanol Iso-Pentanol	H0100 using gas chromatography  H099 using gas chromatography	B  B
Gin and Vodka	Sugars (fructose, glucose and sucrose)	CHROM/354 using ion chromatography and pulsed amperometric detection	B





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FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Bakery products including roasted and fried products	Acrylamide	PRES/083 using LCMS/MS	B
Cocoa and cocoa products	Melamine	PRES/073 using LC-MS/MS	B
	Theobromine/caffeine	CHROM/128 by HPLC	B
Cooking and seasoning sauces	Melamine	PRES/073 using LC-MS/MS	B
Dairy products, cheese and infant formula	Aflatoxin M <sub>1</sub> in milk and milk powder	CHROM/319 by immunoaffinity column clean-up and HPLC	B
Dairy products	Butterfat (in liquid milk and milk powder and butter spreads)	CHROM/239 by Gas Chromatography (GC)	B
	Fat (in liquid milk and milk powder)	K/001 by Röse Gottlieb based on BS EN ISO 1736:2008	B
	Fat in butter	K/011 by solvent extraction and gravimetric determination	B
	Fat (in Cheese and Yogurt)	K/014 by Schmid, Bondzynski Ratzlaff procedure	B
	Milk fat in milk and milk products	CHROM/239 by GC methyl butyrate method	B
	Fatty acid profile (in milk and milk fat)	CHROM/215 by GC based on draft IDF method	B
	Free fatty acids in butter	K/015 by Alkali titration	B
	Free fatty acids in butter oil	K/015 by Alkali titration	B
	Free fatty acids in cream	K/059 and K/015 by Alkali titration	B
	Histamine in cheese and milk	ALA/010 using R-Biopharm Ridascreen Histamine ELISA kit	B



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Dairy Products (cont'd)	Insolubility index in milk powder	K/020 based on IDF129A	B
	Melamine in milk powder	PRES/073 using LC-MS/MS	B
	Moisture in butter	K/011 by gravimetric determination	B
	Moisture in cheese	K/047 by gravimetric determination	B
	Nitrate and Nitrite	I/056 based on BS4401:Part 7:1976 using air-segmented continuous flow analyser	B
	Nitrogen (casein) in milk	Z/003 by Kjeldahl	B
	Nitrogen/Crude protein in butter milk powder, milk powder	Z/001 by Dumas procedure and calculation	B
	Nitrogen/Crude protein in cheese, yogurt, liquid milk, milk powder	Z/002 by Kjeldahl procedure and calculation	B
	Peroxide value in butter products	K/031 by photometric determination	B
	Salt in butter	K/007 by Volhard titration	B
	Salt in cheese	Q/031 by Volhard titration	B
	Solids-not-fat in butter	K/011 based on IDF 80, gravimetric and calculation	B
	Total solids in cream, milk and buttermilk	K/037 by gravimetric determination including calculation of solids non fat	B
	Starch in fat filled powder	H/050 by polarimetry	B
Milk Chocolate Products	Orotic acid and use to calculate skimmed milk solids	Q/040 using UV spectrophotometry	B
Fish, fish products, fish sauce, cheese and wine	Histamine	H101 using HPLC with UV detection	B



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FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Dried fruits, nuts, nut products, herbs and spices	Aflatoxin B1, B2, G1, G2 and Total	CHROM/120 using immunoaffinity column clean-up and HPLC	B
Cereals, coffee, dried fruits, herbs, spices and wine	Ochratoxin A	CHROM/123 by immunoaffinity column clean-up and HPLC	B
Fruits, vegetables and herbs	Pesticide residues - quantification and confirmation	Methods developed and validated following the Flexible Scope procedure PRES/066 Flexible scope procedure using solvent extraction and clean-up procedures followed by GC-MS, GC-MS/MS, LC-MS and LC-MS/MS for analytes not covered by the specific methodology given in the scope of accreditation below	B
	Multi-Residue Pesticide Screen, quantification and confirmation (see Table 1 for analytes)	PRES/069 extended multi-residue extraction + analysis by PRES/021 using Gas Chromatography Mass Spectrometry (GC-MS) and Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)	B
	Multi-Residue Pesticide Screen, quantification and confirmation (see Table 2 for analytes)	PRES/069 extended multi-residue extraction followed by PRES/068 using Liquid Chromatography Mass Spectrometry (LC/MS/MS)	B
	Ethephion and Fosetyl-Al	PRES/082 using LC-MS/MS	B
	Morpholine	PRES/085 using LC-MS/MS	B
	Dithiocarbamates	PRES/007 using GC-MS	B
	Inorganic bromide	PRES/009 using GC-MS	B



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FOOD AND FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Citrus fruits	2,4 D	PRES/054 by LC-MS	B
Pears	Chlormequat and Mepiquat	PRES/041 using LC-MS	B
Potato and onion only	Maleic hydrazide	PRES/011 using HPLC	B
Meats and meat products	Hydroxyproline	Q/029 by SKALAR analysis	B
	Meat species (Cooked)	ALA/003 by ELISA (Tepnel Biosystems)	B
	Meat Species (Raw)	ALA/002 by ELISA (Tepnel Biosystems)	B
	Nitrate and Nitrite	I/056 based on BS4401:Part 7:1976 using air-segmented continuous flow analyser	B
	Conductivity	N/011 using a conductivity meter	B
	pH	N/018 measured by pH electrode	B
ENVIRONMENTAL SWABS	<u>Microbiological Tests</u>	Documented In-House Methods:	
	Enumeration of:		
	Aerobic colony count at 30°C	EUMM 3.14 based on ISO 4833-1:2013	A, B
	Coliforms (presumptive)	EUMM 3.04 based on BS ISO 4832:2006	A, B
	β-glucuronidase positive <i>Escherichia coli</i>	1) EUMM 3.02 based on ISO 16649-2:2001 by spread plate technique	A, B
		2) EUMM 3.25 based on ISO 16649-2:2001 by Pour Plate Technique	A, B



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:	
	Enumeration of: (cont'd)		
	Enterobacteriaceae (presumptive)	EUMM 3.05 based on BS EN ISO 21528-2: 2017	A, B
	Coagulase positive Staphylococci including <i>Staphylococcus aureus</i>	EUMM 3.06 based on BS EN ISO 6888-1:1999 + A1:2003	A, B
	Faecal streptococci (Enterococci)	EUMM 3.09 based on BS 4285:Section 3.11:1985	A, B
	Presumptive <i>Pseudomonas</i> spp and <i>Pseudomonas aeruginosa</i> (confirmed)	EUMM 3.11 In-house documented method, CFC agar (for <i>Pseudomonas</i> species) and CN agar (for <i>P aeruginosa</i> )	B
	<i>Listeria</i> spp including <i>L. monocytogenes</i> , <i>innocua</i> , <i>welshimeri</i> , <i>seeligeri</i> and <i>ivanovii</i>	1) EUMM 3.08 In-house documented method using PALCAM agar	A, B
	Confirmation using Microgen ID and biochemical tests	2) EUMM 3.27 based on BS EN ISO 11290-2:2017	A, B
	Yeasts and mould (Aw above 0.95)	EUMM 3.16 based on ISO 21527 parts 1:2008	B
	Yeasts and mould (Aw less than 0.95)	EUMM 3.29 based upon ISO 21527 parts 1 and 2:2008	B
Yeasts and mould (presumptive)	EUMM 3.39 Oxytetracycline Glucose Yeast Extract Agar (OGYE) pour plate at 25°C for 5 days incubation (client specified)	B	
Mesophilic aerobes	EUMM 3.62 In-house Method by pour plate using PCA incubated at 30°C for 48h	B	
<i>Campylobacter</i> spp.	EUMM3.65 based on BS EN ISO 10272-2:2017 including confirmation and/or confirmed to genus level by MALDI-TOF-MS EUMM3.60	B	



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ENVIRONMENTAL SWABS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:	
	Detection of:		
	<i>Listeria</i> spp including <i>L. monocytogenes</i> , <i>innocua</i> , <i>welshimeri</i> , <i>seeligeri</i> and <i>ivanovii</i>	1) EUMM 3.08 In-House Method using <i>Listeria</i> Enrichment Broth and plating onto PALCAM agar	A, B
	Confirmation using Microgen ID and biochemical tests	2) EUMM 3.27 based on BS EN ISO 11290-1:2017	A, B
		3) EUMM3.72 using 2-stage enrichment with Fraser Broth and plating onto ALOA and PALCAM agar from Full Fraser Broth	B
	<i>Listeria</i> spp (confirmed)	EUMM3.19 using Solus <i>Listeria</i> ELISA Test Kit	A, B
	Confirmation using Microgen ID and biochemical tests		
<i>Salmonella</i> spp	1) EUMM 3.01 In-House Method using single selective enrichment and plating onto BGA and XLD	A, B	
Confirmation using API system and serology	2) EUMM 3.28 based on BS EN ISO 6579:2017	A, B	
	3) EUMM 3.18 using Solus <i>Salmonella</i> ELISA test kit	A, B	
<i>Salmonella</i> spp, confirmed	EUMM 3.46 In-house documented method, BioMerieux VIDAS SLM Automated ELFA	A	
Confirmation using API system and serology			
<i>Escherichia coli</i> O157	EUMM3.66 based on BS EN ISO 16654:2001 using Pathatrix immunoconcentration and enabling pooling of samples. Confirmation by latex agglutination kit and API20E	B	



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FOODS - GENERAL and ANIMAL FEEDING STUFFS	<u>Microbiological Tests</u>	Documented In-House Methods:	
	Enumeration of:		
	Aerobic Mesophilic Spore count	EUMM 3.21 In-House Method, heat treatment followed by plating onto PCA	A, B
	Presumptive <i>Bacillus cereus</i>	EUMM 3.03 based on BS EN ISO 7932:2004	A, B
	<i>Clostridium perfringens</i>	EUMM 3.07 based on BS EN 7937:2004, confirmed using API system	A, B
	Coliforms (presumptive)	EUMM 3.04 based on BS ISO 4832:2006	A, B
	Enterobacteriaceae (presumptive)	EUMM 3.05 based on BS EN ISO 21528-2:2017	A, B
	Enterobacteriaceae (confirmed)	EUMM 3.05 based on BS EN ISO 21528-2:2017	B
$\beta$ -glucuronidase positive <i>Escherichia coli</i>	1) EUMM 3.02 based on ISO 16649-2:2001 by spread plate technique	A, B	
	2) EUMM 3.12 by membrane method based on ISO 16649-1:2000	A, B	
	3) EUMM 3.25 based on ISO 16649-2:2001	A, B	



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FOODS - GENERAL and ANIMAL FEEDING STUFFS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:	
	Enumeration of: (cont'd)		
	Faecal streptococci (Enterococci)	EUMM 3.09 based on BS 4285:Section 3.11:1985 using SB or KF agar (customer specified)	A, B
	Mesophilic Anaerobes at 30°C	EUMM 3.63 by pour plate using RCA incubated anaerobically at 30°C for 72h	B
	Mesophilic Anaerobic Spores at 30°C	EUMM 3.64 by pour plate, after a heat shock treatment, using RCA incubated at 30°C for 48h	B
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , <i>innocua</i> , <i>welshimeri</i> , <i>seeligeri</i> and <i>ivanovii</i>	1) In-House Documented EUMM 3.08 using PALCAM agar	A, B
	Confirmation using Microgen ID and biochemical tests	2) EUMM 3.27 based on BS EN ISO11290-2:2017	A, B
	Presumptive <i>Pseudomonas</i> spp and <i>Pseudomonas aeruginosa</i> (confirmed)	EUMM 3.11 In-House Method CFC agar (for <i>Pseudomonas</i> species) and CN agar (for <i>P. aeruginosa</i> )	A, B
Coagulase positive Staphylococci including <i>Staphylococcus aureus</i>	EUMM 3.06 based on BS EN ISO 6888-1:1999 +A1:2003	A, B	
Total Anaerobic Count	EUMM 3.15 In-House Method using RCA media	A	





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOODS - GENERAL and ANIMAL FEEDING STUFFS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:	
	Enumeration of: (cont'd)		
	Aerobic Colony Count	EUMM 3.14 based on ISO 4833-1:2013 (Aerobic Plate Count at 30°C)	A, B
	Lactic Acid bacteria	EUMM 3.20 based upon ISO 15214:1998	A, B
	Mesophilic aerobes	EUMM 3.62 In-house Method by pour plate using PCA or MPCA incubated at 30°C for 48h	B
	Detection of:		
	<i>Escherichia coli</i> O157	EUMM 3.17 based on BS EN ISO 16654:2001 plated onto CTSMAC and BCIG with confirmation using latex agglutination kit	A, B
	<i>Escherichia coli</i> O157	EUMM 3.66 based on BS EN ISO 16654:2001 using Pathatrix immunoconcentration and enabling pooling of samples. Confirmation by latex agglutination kit and API20E	B
<i>Escherichia coli</i>	EUMM 3.13 based on using MBP and confirmation using TW and BGGB	B	
<i>Salmonella</i> spp Confirmation using API system and serology	1. EUMM 3.01 In-House Method using single selective enrichment and plating onto BGA and XLD  2. EUMM 3.28 based on BS EN ISO 6579:2017  3. EUMM 3.18 using Solus Salmonella ELISA test kit	A, B  A, B  A, B	



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FOODS - GENERAL	<u>Microbiological Tests</u>	Documented In-house methods	
	<i>Listeria</i> spp including <i>Listeria monocytogenes</i> , <i>innocua</i> , <i>welshimeri</i> , <i>seeligeri</i> and <i>ivanovii</i> Confirmation using Microgen ID and biochemical tests	1) EUMM 3.08 In-House Method using <i>Listeria</i> Enrichment Broth and plating onto PALCAM agar	A
		2) EUMM 3.27 based on BS EN ISO 11290-1: 2017	A
		3) EUMM 3.72 using 2-stage enrichment with Fraser Broth and plating onto ALOA and PALCAM from Full Fraser Broth	B
	<i>Listeria</i> spp (confirmed) Confirmation using Microgen ID and biochemical tests	EUMM 3.19 using Solus <i>Listeria</i> ELISA Test Kit	A
	Enumeration of:  Yeasts and mould (Aw above 0.95)	EUMM 3.16 based on ISO 21527 part 1:2008 using buffered peptone water instead of meat peptone water	A, B
	Yeasts and mould (Aw less than 0.95)	EUMM 3.29 based upon ISO 21527 part 2:2008 using buffered peptone water instead of meat peptone water	A, B
Yeasts and mould (presumptive)	EUMM 3.39 Oxytetracycline Glucose Yeast Extract Agar (OGYE) pour plate at 25°C for 5 days incubation (client specified)	B	
Detection of:  <i>Campylobacter</i> spp	EUMM 3.10 based on BS EN ISO 10272-1:2017 including confirmation and/or confirmed to genus level by MALDI-TOF-MS following EUMM 3.60	B	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOODS – GENERAL (cont'd)	<u>Microbiological Tests</u> (cont'd) Detection of: (cont'd)	Documented In-house methods	
	Staphylococcal enterotoxins (serotypes A to E)	ALA/005 using 3M Tecra Staph Enterotoxin VIA ELISA kit	B
Fresh and frozen seafood	Detection and identification of: <i>Vibrio parahaemolyticus</i>	EUMM 3.24 based on BS EN ISO 21872-1:2017	B
Confectionery products	<i>Salmonella</i> spp, confirmed Confirmation using API system and serology	EUMM 3.46 using Biomereix VIDAS SLM Automated ELFA	A
ANIMAL FEEDING STUFFS	<u>Microbiological Tests</u> Detection of:	Documented In-House Methods	
	<i>Salmonella</i> spp. (confirmed) Confirmation using API system and serology	EUMM 3.37 based on BS EN ISO 6579:2017 to meet the requirements of the Animal By-Products Regulations (Enforcement) (England) Regulations, 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (as amended)	B
	Enumeration of: Enterobacteriaceae (confirmed)	EUMM 3.38 based on BS ISO 21528-2:2017 to meet the requirements of the Animal By-Products Regulations (Enforcement) (England) Regulations, 2013 (amended 2015) implementing Regulation (EU) No 142/2011 (as amended)	B
MILK POWDER, INFANT FORMULA	Detection of: <i>Cronobacter sakazakii</i> DNA	EUMM 3.30 and 3.31 using Pathatrix Auto system followed by Real-Time PCR using Taqman detection kit on pooled (five) samples, using Stratagene Mx3005P	B





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD, FEED AND SWABS (cont'd)  Suspect <i>Listeria</i> isolates (from Blood agar) obtained from food, food products, animal feed and environmental swabs	<u>Molecular Biology Tests</u> (cont'd)  Confirmation of:  <i>Listeria monocytogenes</i> <i>Listeria innocua</i> <i>Listeria ivanovii</i> <i>Listeria seeligeri</i> <i>Listeria welshimeri</i>	EUMM 3.61 using Bruker Biotyper MALDI-TOF-MS	B
END			

**Table 1:**

**Multi-residue screen in fruits and vegetables using PRES/069 EMR extraction followed by PRES/021, GC-MS and GC-MS/MS**

2,4,6-Trichlorophenol	Dioxabenzofos	Parathion
2-Phenylphenol	Diphenylamine	Parathion-methyl
3-chloroaniline	Endosulfan alpha	Penconazole
Acetochlor	Endosulfan sulfate	Pendimethalin
Acibenzolar-s-methyl	Endosulfan, beta-	Pentachloroaniline
Aclonifen	Endrin	Pentanochlor
Acrinathrin	EPN	Permethrin
Alachlor	EPTC	Phenothrin
Aldrin	Etaconazole	Phenthoate
Ametryn	Ethion	Phorate
Atrazine-desethyl	Ethofenprox	Phosalone
Azaconazole	Etrimfos	Phosmet
Bifenazat	Fenazaquin	Phosphamidon
Bifenox	Fenchlorphos	Piperonyl butoxide
Biphenrin	Fenitrothion	Pirimiphos (-ethyl)
Biphenyl	Fenoxycarb	Prochloraz
Bitertanol	Fenpropathrin	Procyridone
Boscalid	Fenpropidin	Profenofos
Bromacil	Fenson	Prometon
Bromophos (-ethyl)	Fenvalerate (all isomers)	Propargite
Bromopropylate	Fipronil	Propetamphos
Butralin	Flucythrinate	Propham
Carbaryl	Fludioxonil	Propiconazole
Carbophenothion	Flumetralin	Propoxur
Chinomethionate	Flurochloridone	Propyzamid
Chlordane (total)	Fonofos	Prosulfocarb



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**Table 1:**

**Multi-residue screen in fruits and vegetables using PRES/069 EMR extraction followed by PRES/021, GC-MS and GC-MS/MS**

Chlordimeform	Formothion	Prothiofos
Chlorfenapyr	Furalaxyl	Pyrazophos
Chlorfenson	Furathiocarb	Pyridaben
Chlorfenvinphos	HCH, alpha-	Pyridaphenthion
Chlormephos	HCH, beta-	Pyrifenox
Chlorobenzilate	HCH, delta-	Pyrimethanil
Chloropropylate	HCH, gamma (Lindane)	Pyrimidifen
Chlorpropham	Heptachlor endo epoxide	Quinalphos
Chlorpyrifos (-ethyl)	Hexachlorobenzene (HCB)	Quinoxifen
Chlorpyrifos-methyl	Hexaconazole	Quintozene
Chlorthal-dimethyl	Hexazinone	Secbumeton
Chlorthion	Imazalil	Silafluofen
Chlozolinat	Iodofenphos	Spirodiclofen
Cyanofenphos	Iprodione	Sulprofos
Cyflufenamid	Isobenzan	tau-Fluvalinat
Cyfluthrin	Isodrin	Tebuconazol
Cyhalothrin, lambda-	Isofenphos	Tebufenpyrad
Cypermethrin	Isoprothiolane	Tecnazene
Cyproconazole	Kresoxim-methyl	Tefluthrin
Cyprodinil	Lenacil	Terbacil
DDD, p,p-	Leptophos	Terbumeton
DDE, o,p-	Lindane	Tetrachlorvinphos
DDE, p,p'-	MCPA-thioethyl	Tetraconazole
DDT, o,p'-	Mecarbam	Tetradifon
DDT, p,p-	Mepronil	Tetramethrin
Deltamethrin	Metazachlor	Tetrasul
Diazinon	Methidathion	Thiabendazole
Dichlobenil	Metrafenone	Thiobencarb
Dichlofenthion	Metribuzin	Tolclofos-methyl
Dichlofluanid	Mevinphos	Trifluralin
Dichloran	Multiresidue pesticide screen	VegeDex (Sulfallate)
Dichlorvos	Myclobutanil	Vinclozolin
Dieldrin	Nitrofen	
Diethofencarb	Nitrothal-isopropyl	
Difenoconazole	Nuarimol	
Dimethylaminosulphotoluidide (DMST)	Octhilinone	
Dimethylphenylsulfamide (DMSA)	Ofurace	
Dimethylvinphos	Oxadiazon	
Diniconazole	Oxadixyl	
	Oxyfluorfen	

End of table 1



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Table 2:

#### Multi-residue screen in fruits and vegetables using PRES/069 EMR extraction followed by PRES/068, LC-MS/MS

3-Hydroxycarbofuran	Fenamiphos-sulfoxide	Phenmedipham
Acephate	Fenarimol	Phorate-sulfone
Acetamiprid	Fenbuconazole	Phorate-sulfoxide
Aldicarb	Fenchlorphos oxon	Phosfolan
Aldicarb-sulfone	Fenpiclonil	Phoxim
Aldicarb-sulfoxide	Fenpropimorph	Picoxystrobin
Aminocarb	Fenpyroximate	Pirimicarb
Anilazine	Fensulfothion	Pirimicarb, desmethyl-
Atraton	Fenthion-sulfone	Pirimiphos-methyl
Atrazin	Fenthion-sulfoxide	Pretilachlor
Azinphos-methyl	Fluazifop-butyl	Promecarb
Azoxystrobin	Flubendiamide	Prometryn
Benalaxyl	Flufenacet	Propamocarb
Bendiocarb	Flufenoxuron	Propanil
Bromuconazole	Fluopicolid	Propaquizafop
Bupirimate	Fluoxastrobin	Propazin
Buprofezin	Flurtamone	Proquinazid
Butachlor	Flusilazole	Prothioconazole-desthio
Butocarboxim	Flutolanil	Pymetrozine
Cadusaphos	Flutriafol	Pyraclostrobin
Carbendazim	Fosthiazate	Pyraflufen-ethyl
Carbofuran	Haloxyfop-methyl	Pyriproxyfen
Carfentrazone-ethyl	Heptenophos	Quassia
Chlorantraniliprole	Hexaflumuron	Quizalofop ethyl
Chlorotoluron	Imidacloprid	Rotenone
Clodinafop-propargyl	Iprovalicarb	Simazine
Clomazone	Isazofos	Spinetoram
Cloquintocet-mexyl	Isocarbofos	Spinosad
Clothianidin	Isofenphos-Methyl	Spirotetramat
Coumaphos	Isomethiozin	Sulfentrazone
Crufomate	Isoprocab	Sulfotep
Cyanazine	Isoproturon	Tebufenozide
Cyazofamid	Isoxaben	Teflubenzuron
Cymoxanil	Linuron	Temephos
Demeton-S-methyl-sulfone	Malaoxon	Terbufos-sulfon
Desmetryn	Malathion	Terbufos-sulfoxide
Diclobutrazol	Mandipropamid	Terbutylazine
Dicrotophos	Mepanipyrim	Terbutryn
Diflubenzuron	Mephosfolan	Thiacloprid
Dimethenamid	Metaflumizone	Thiamethoxam
Dimethoate	Metalaxyl	Thiodicarb
Dimethomorph	Metamitron	Triadimefon
Dimoxystrobin	Metconazole	Triadimenol
Dioxathion	Methamidophos	Triazophos
Diphenamid	Methiocarb	Trichlorfon
Disulfoton-sulfon	Methiocarb-sulfone	Tricyclazol
Disulfoton-sulfoxide	Methiocarb-sulfoxide	Trietazine
Ditalimfos	Methomyl	Trifloxystrobin



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Table 2:

**Multi-residue screen in fruits and vegetables using PRES/069 EMR extraction followed by PRES/068, LC-MS/MS**

Diuron	Methoxyfenozid	Triflumizole
Edifenphos	Metolachlor	Triflumuron
Epoxyconazol (epoxiconazole)	Metolcarb	Triticonazole
Ethiofencarb-sulfone	Metoxuron	Uniconazole
Ethiofencarb-sulfoxide	Molinate	Vamidothion
Ethirimol	Monocrotophos	Zoxamide
Ethofumesate	Monuron	
Ethoprophos	Napropamide	
Etoxazole	Nitenpyram	
Famophos	Norflurazon	
Famphur	Omethoate	
Fenamidone	Oxamyl	
Fenamiphos	Oxydemeton-methyl	
Fenamiphos-sulfone	Pencycuron	
	Pethoxamid	

End of Table 2