Schedule of Accreditation

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Eurofins Food Testing UK Ltd

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Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Eurofins Food Testing UK Ltd i54 Business Park Valiant Way Wolverhampton WV9 5GB	**Local contact, Chemistry** Ms Carol Giles Tel: +44 (0)7894 567746 E-Mail: Carol.giles@ftuki.eurofins.com **Local contact, Microbiology** Agnieszka Blachowicz Tel: +44 (0)7825234854 Email: Agnieszka.blachowicz@ftuki.eurofins.com	Chemistry Microbiology	B
Address Eurofins Food Testing UK Ltd (Heathrow) 1 Dukes Green Avenue Feltham TW14 0LR	**Local contact, Molecular Biology and CBD** Mr Graeme Jardine Tel: +44 (0)20 8222 6070 Email:Graeme.jardine@ftuki.eurofins.com **Local contact, Microbiology** Laura de Corral Gil Tel: +44 (0)208 222 6070 Email:Laura.decorralgil@ftuki.eurofins.com	Microbiology Molecular Biology	A

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDINGSTUFFS	Chemical Tests	Documented In-House Methods	
	Ash	Q/001 using Gravimetry	B
	Crude Fibre	H/006 by acid/alkali digestion	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
	Moisture	H/077 based on BS EN ISO 712:2009	B
	Moisture	H/091 using oven drying and gravimetric weighing	B
	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
	Fat	H/090 using NMR fat analyser	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDINGSTUFFS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
	Fat	Q/002 by gravimetric determination	B
	Sugars: Fructose, Galactose, Glucose, Lactose, Maltose, Sucrose	CHROM/344 by anion exchange chromatography and pulsed amperometric detection	B
	Elemental analysis:		
	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BOTANICAL MATERIALS	Chemical Tests	Documented In-House Methods	
	Elemental analysis:		
- Leaf materials - Roots - Shoots	Fluoride	I/048 by fluoride electrode	B
	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	Chemical Tests	Documented In-House Methods	
General Foods	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	H/090 using NMR fat analyser	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
General Foods (cont'd)	Fatty acid profile Fatty acid composition Saturates Monounsaturates Polyunsaturates Trans fatty acids Omega-3 fatty acids Omega-6 fatty acids Omega-9 fatty acids	CHROM/215 by GC	B
	Dietary Fibre	H/085 following AOAC procedure 991.43	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 <20%, 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 2) Z/002 by Kjeldahl	B 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
	Sugars: Fructose, galactose, glucose, lactose, maltose, sucrose	CHROM/344 by anion exchange chromatography and pulsed amperometric detection	B
	Sweeteners	CHROM/129 by HPLC	B
	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
	Physical Tests		
	pH	Q/009 by pH electrode	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS and SWABS (including rinse waters)	Chemical Tests (cont'd)	Documented In-House Methods	
	Allergens:		
	Detection and determination of allergens	Methods developed and validated according to flexible scope procedure ALA/032 using commercial ELISA kits	B
	beta - Lactoglobulin	ALA/045 using Sensispec b-lactoglobulin ELISA kit	B
	Hazelnut	ALA/048 using SENSISpec Hazelnut ELISA kit	B
	Peanut	ALA/046 using SENSISpec Peanut ELISA	B
	Sesame	ALA/006 using Sensispec sesame ELISA kitkit	B
	Soya	ALA/052 using RIDASCREEN FAST Soya	B
	Almond	ALA/047 using SENSISpec Almond ELISA kit	B
	Casein	ALA/044 using Sensispec Casein ELISA kit	B
	Whole Egg Protein	ALA/053 using Morinaga Egg (ovalbumin) ELISA kit	B
	Gluten	ALA/042 using Ingenasa Gliadin R5 ELISA kit	B
	Crustaceans	ALA/051 using SENSISpec Tropomyosin ELISA	B
	Mustard	ALA/049 using SENSISpec Mustard ELISA	B
	Walnut	ALA/050 using SENSISpec Walnut ELISA	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS	Chemical Tests (cont'd) Elemental analysis: Determination of elemental extracts:	Documented In-House Methods	
	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
	Iodine	ICPMS/002 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	B
Alcoholic beverages	Alcohol content	H100 using gas chromatography	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
Alcoholic beverages	Congeners: Acetaldehyde Methanol Ethanol Isopropanol t-Butanol t-Propanol Ethyl acetate Iso-Butanol n-Butanol Iso-Pentanol	H099 using gas chromatography	B
Gin and Vodka	Sugars (fructose, glucose and sucrose)	CHROM/354 using ion chromatography and pulsed amperometric detection	B
Bakery products including roasted and fried products and coffee	Acrylamide	PRES/083 using LCMS/MS	B
Including Chocolate	Theobromine/caffeine	CHROM/128 by HPLC	B
Dairy products, milk, cheese and infant formula	Aflatoxin M_1 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 calculation	B
Cocoa and cocoa products	Butterfat	CHROM/239 by gas chromatography (GC)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
Dairy products	Fat (in Cheeset)	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	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 whole milk and cream	K/059 and K/015 by Alkali titration	B
	Insolubility index in milk powder	K/020 based on IDF129A	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/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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
	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 milk powder	H/050 by polarimetry	B
Fish, fish products, fish sauce, cheese and wine	Histamine	H101 using HPLC with UV detection	B
Animal feedingstuffs (including pet food) Food and food products (meat and fish)	Biogenic amines: Cadaverine (CAV) Histamine (HIS) Phenylethylamine (PEA) Putrisine (PUT) Spermidine (SPD) Spermine (SPM) Tyramine (TY) Tryptamine (TRP)	CHROM 357 using derivatisation and detection by HPLC-UV/DAD	B
Cereals, Infant foods, 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, infant food and wine	Ochratoxin A	CHROM/123 by immunoaffinity column clean-up and HPLC	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
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
Fruits, vegetables and herbs	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
	Ethephon	PRES/082 using LC-MS/MS	B
	Dithiocarbamates	PRES/007 using GC-MS	B
Pears	Chlormequat and Mepiquat	PRES/041 using LC-MS	B
Seeds and spices	2-Chloroethanol (expressed as ethylene oxide) Ethylene oxide	PRES/094 using GC-MS/MS	B
Meats and meat products	Hydroxyproline	Q/029 by continuous flow analyser	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD AND FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods	
	Nitrate and Nitrite	I/056 based on BS4401:Part 7:1976 using air-segmented continuous flow analyser	B
Soft drinks	Water Soluble Colours: Allura Red (E129) Amaranth (E123) Brilliant Black PN (E151) Brilliant Blue FCF (E133) Carmoisine (E122) Erythrosine (E127) Green S (E142) Indigo Carmine (E132) Patent Blue V (E131) Ponceau 4R (E124) Quinoline Yellow (E104) Red 2G (E128) Sunset Yellow (E110) Tartrazine (E102)	CHROM 355 HPLC with Diode Array Detection	B
Including sugar, gelatine and vegan confectionery, insoluble foodstuffs and starchy foodstuffs, e.g. pizza, pies and pastries	Water Soluble Colours: Allura Red (E129) Amaranth (E123) Brilliant Blue FCF (E133) Carmoisine (E122) Green S (E142) Indigo Carmine (E132) Patent Blue V (E131) Ponceau 4R (E124) Quinoline Yellow (E104) Red 2G (E128) Sunset Yellow (E110) Tartrazine (E102)	CHROM 355 HPLC with Diode Array Detection	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS	<u>Microbiological Tests</u> Enumeration of:	Documented In-House Methods:	
	Aerobic Colony Count	EUMM 3.14 based on ISO 4833-1:2013 +A1:2022	A, B
	Aerobic Colony Count	EUMM 3.62 In-house Method by pour plate using PCA incubated at 30°C for 48h	B
	Coliforms (presumptive)	EUMM 3.04 based on BS ISO 4832:2006	B
	β-glucuronidase positive *Escherichia coli*	EUMM 3.25 based on ISO 16649-2:2001	B
	Enterobacteriaceae (presumptive)	EUMM 3.05 based on BS EN ISO 21528-2: 2017	A, B
	Coagulase positive Staphylococci including *Staphylococcus aureus*	EUMM 3.06 based on BS EN ISO 6888-1:2021+A1:2023	A, B
	Faecal streptococci (Enterococci)	EUMM 3.09 based on BS 4285:Section 3.11:1985	B
	Pseudomonas spp (presumptive)	EUMM 3.11 In-house method using CFC agar	B
	Listeria spp including *L. monocytogenes, innocua, welshimeri, seeligeri* and *ivanovii*	EUMM 3.27 based on BS EN ISO 11290-2:2017 with confirmation using Microbact 12L	B
	Yeasts and mould (Aw > 0.95)	EUMM 3.16 based on ISO 21527-1:2008	B
	Yeasts and mould (Aw ≤ 0.95)	EUMM 3.29 based upon ISO 21527-2:2008	B

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(Cont'd)</u> Enumeration of: (Cont'd)	Documented In-House Methods:	
	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
	Campylobacter spp.	EUMM3.65 based on BS EN ISO 10272-2:2017+A1:2023, including confirmation and/or confirmed to genus level by MALDI-TOF-MS EUMM3.60	B
	Detection of:		
	Listeria spp including *L. monocytogenes, innocua, welshimeri, seeligeri* and *ivanovii*	1) EUMM 3.27 based on BS EN ISO 11290-1:2017, confirmation by Microbact 12L	A, B
		2) EUMM 3.19 using Solus Listeria ELISA test kit, confirmation by Microbact 12L	B
		3) EUMM 3.81 using Neogen Less Plus Broth and ALOA, confirmation by Microbact 12L	B
	Salmonella spp.	1) EUMM 3.28 based on BS EN ISO 6579:2017+A1:2020 with confirmation using API and serology	A, B
		2) EUMM 3.18 using Solus Salmonella ELISA test kit with confirmation using API and serology	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS (cont'd)	Microbiological Tests (cont'd) Detection of: (cont'd)	Documented In-House Methods:	
	Salmonella spp.	3) EUMM 3.46 In-house documented method, BioMereiux VIDAS SLM Automated ELFA	A
		4) EUMM3.83 using Neogen BPW HQ + OBOP-S supplement and CASE selective media, confirmation by Maldi TOF (SOP 3.60) or Oxoid Salmonella Latex kit or Microgen Latex kit	B
	Escherichia coli O157	Method EUMM3.90 using Solus ELISA with confirmation on CT-SMAC and SMAC-BCIG, Thermofisher dryspot latex agglutination and API 20E	B
	Detection of β-glucuronidase positive *Escherichia coli*	EUMM3.47 based on BS EN ISO 16649-3: 2015	B
ENVIRONMENTAL SWABS and FOODS – Seasonings & Sauces	Microbiological Tests Enumeration of:	Documented In- House methods, customer specified methods	
	Yeast and Moulds	EUMM0715 in house method using DRBC or DG18 containing options for both <0.95 AW & >0.95 AW	B
	Coagulase Positive Staphylococci	EUMM0750 in house method Customer specified; using Baird Parker plates, confirmed via Rabbit Plasma Tube Coagulase	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SWABS and FOODS – Seasonings & Sauces (cont'd)	Microbiological Tests (cont'd)	Documented In- House methods, customer specified methods	
	Detection of:		
	Salmonella spp.	EUMM0740 in house method Customer specified; using SCB, RVS, MKTTn for pre-enrichment, plated to BSA, XLD, HEA. Confirmation using API system and serology, or MALDI-ToF	B
FOODS - GENERAL and ANIMAL FEEDING STUFFS	Microbiological Tests	Documented In-House Methods:	
	Enumeration of:		
	Aerobic Colony Count	EUMM 3.14 based on ISO 4833-1:2013+A1 2022	B
	Aerobic Colony Count	EUMM 3.62 In-house Method by pour plate using PCA or MPCA incubated at 30°C for 48h	B
	Total Anaerobic Count at 30°C	EUMM 3.63 by pour plate using RCA incubated anaerobically at 30°C for 72h	B
	Aerobic Mesophilic Spore count	EUMM 3.21 using heat treatment followed by plating onto PCA	B
	Anaerobic Mesophilic Spore count	EUMM 3.64 by pour plate, after a heat shock treatment, using RCA incubated at 30°C for 48h	B

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)	Microbiological Tests (cont'd)	Documented In-House Methods:	
	Enumeration of: (cont'd)		
	Bacillus cereus (presumptive)	EUMM 3.03 based on BS EN ISO 7932:2004+A1 2020	B
	Clostridium perfringens	EUMM 3.07 based on BS EN ISO 15213-2:2023, with in-house confirmation using Biomerieux API	B
	Coliforms (presumptive)	EUMM 3.04 based on BS ISO 4832:2006	B
	Enterobacteriaceae (presumptive)	EUMM 3.05 based on BS EN ISO 21528-2:2017	B
	Enterobacteriaceae (confirmed)	EUMM 3.05 based on BS EN ISO 21528-2:2017	B
	β-glucuronidase positive *Escherichia coli*	EUMM 3.25 based on ISO 16649-2:2001	B
	Campylobacter spp.	EUMM3.65 based on BS EN ISO 10272-2:2017+A1:2023 including confirmation and/or confirmed to genus level by MALDI-TOF-MS EUMM3.60	B
	Faecal streptococci (Enterococci)	EUMM 3.09 based on BS 4285:Section 3.11:1985 using SB	B
	Listeria spp including *Listeria monocytogenes, innocua, welshimeri, seeligeri* and *ivanovii*	EUMM 3.27 based on BS EN ISO11290-2:2017 Confirmation using Microgen ID and biochemical tests	B
	Pseudomonas spp. (presumptive)	EUMM 3.11 In-House Method CFC agar	B

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)	Microbiological Tests (cont'd)	Documented In-House Methods:	
	Enumeration of: (cont'd)		
	Coagulase positive Staphylococci including *Staphylococcus aureus*	EUMM 3.06 based on BS EN ISO 6888-1:2021+A1:2023	B
	Lactic Acid bacteria	EUMM 3.20 based upon ISO 15214:1998	B
	Yeasts and mould (Aw > 0.95)	EUMM 3.16 based on ISO 21527-1:2008 using buffered peptone water instead of meat peptone water	B
	Yeasts and mould (Aw ≤ 0.95)	EUMM 3.29 based upon ISO 21527-2:2008 using buffered peptone water instead of meat peptone water	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
Dry and baked products, Dairy products, confectionary	Microbiological Tests	Documented In- House methods, customer specified methods	
	Enumeration of:		
	Aerobic Colony Count	EUMM 3.14 based on ISO 4833-1:2013+A1 2022	A
	Aerobic Mesophilic Spore count	EUMM 3.21 using heat treatment followed by plating onto PCA	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Dry and baked products, Dairy products, confectionary (cont'd)	Microbiological Tests (cont'd) Enumeration of: (cont'd)	Documented In- House methods, customer specified methods	
	Enterobacteriaceae (presumptive)	EUMM 3.05 based on BS EN ISO 21528-2:2017	A
	Coagulase positive Staphylococci including *Staphylococcus aureus*	EUMM 3.06 based on BS EN ISO 6888-1:2021+A1:2023	A
	Yeasts and mould (Aw > 0.95)	EUMM 3.16 based on ISO 21527-1:2008 using buffered peptone water instead of meat peptone water	A
	Yeasts and mould (Aw ≤ 0.95)	EUMM 3.29 based upon ISO 21527-2:2008 using buffered peptone water instead of meat peptone water	A
FOODS - GENERAL and ANIMAL FEEDING STUFFS	Microbiological Tests Detection of:	Documented In-House Methods:	
	Escherichia coli O157	1) EUMM 3.17 based on BS EN ISO 16654:2001 + A1:2017 plated onto CTSMAC and BCIG with confirmation using latex agglutination kit	B
		2) Method EUMM3.90 using Solus ELISA with confirmation on CT-SMAC and SMAC-BCIG, Thermofisher dryspot latex agglutination and API 20E	B

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)	Microbiological Tests (cont'd)	Documented In-House Methods:	
	Detection of: (cont'd)		
	β-glucuronidase positive *Escherichia coli*	EUMM3.47 based on BS EN ISO 16649-3: 2015	B
	Campylobacter spp.	EUMM 3.10 based on BS EN ISO 10272-1:2017+A1:2023 including confirmation and/or confirmed to genus level by MALDI-TOF-MS following EUMM 3.60	B
	Listeria spp including *L. monocytogenes, innocua, welshimeri, seeligeri* and *ivanovii*	1) EUMM 3.27 based on BS EN ISO 11290-1:2017 with confirmation by Microbact 12L	B
		2) EUMM 3.19 using Solus Listeria ELISA Test Kit	B
		3) EUMM 3.81 using Neogen Less Plus Broth and ALOA	B
	Salmonella spp.	1) EUMM 3.28 based on BS EN ISO 6579-1:2017+ A1:2020 with confirmation by API and serology	B
		2) EUMM 3.18 using Solus Salmonella ELISA test kit	B
		3) EUMM3.83 using Neogen BPW HQ + OBOP-S supplement and CASE selective media, confirmation by Maldi TOF (SOP 3.60) or Oxoid Salmonella Latex kit or Microgen Latex kit	B

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)	Microbiological Tests (cont'd) Detection of: (cont'd) Staphylococcal enterotoxins (serotypes A to E)	Documented In-House Methods: ALA/005 using 3M Tecra Staph Enterotoxin VIA ELISA kit	 B
ANIMAL FEEDING STUFFS	Microbiological Tests Detection of: *Salmonella* spp.	Documented In-House Methods EUMM 3.37 based on BS EN ISO 6579:2017+ A1:2020 with confirmation by API and serology	 B
Dry and baked products, Dairy products, confectionary	Microbiological Tests Detection of: *Escherichia coli* *Listeria* spp including *L. monocytogenes, innocua, welshimeri, seeligeri* and *ivanovii* *Salmonella* spp.	Documented In- House methods, customer specified methods EUMM 3.13 based on using MBP and confirmation using TW and BGBB EUMM 3.27 based on BS EN ISO 11290-1:2017 with confirmation by Microbact 12L EUMM 3.28 based on BS EN ISO 6579-1:2017+ A1:2020 with confirmation by API and serology	 A A A
Confectionery products only	*Salmonella* spp.	EUMM 3.46 using Biomereiux VIDAS SLM Automated ELFA with confirmation using API and serology	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD, FEED AND SWABS	Confirmation of:		
Suspect *Salmonella* isolates (from selective and non-selective agars) obtained from food, food products, animal feed and environmental swabs	*Salmonella spp*	EUMM 3.60 using Bruker Biotyper MALDI-TOF-MS	B
Suspect *Listeria* isolates (from Blood agar) obtained from food, food products, animal feed and environmental swabs	*Listeria monocytogenes* *Listeria innocua* *Listeria ivanovii* *Listeria seeligeri* *Listeria welshimeri*	EUMM 3.60 using Bruker Biotyper MALDI-TOF-MS	B
Pet food and environmental swabs	Molecular Biology Tests Detection of:	Documented In-House Methods:	
	Salmonella species DNA	EUMM 3.34 using Dupont Qualicon BAX II PCR test kit	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD, FOOD PRODUCTS and SWABS	<u>Molecular Biology Tests</u>		
	Detection and semi-quantification of DNA from meat: Horse Beef Chicken Turkey Goat Sheep Pork	MOLBIO1.2 based on DNA extraction using SureFood Prep Basic Kit and detection and semi-quantification using Genescan DNAnimal Ident RT Horse Cat. No. 5422220110 Genescan DNAnimal Ident RT Beef Cat. No. 5422220610 Genescan DNAnimal Ident RT Chicken Cat. No. 5422221010 Genescan DNAnimal Ident RT Turkey Cat. No. 5422211510 Genescan DNAnimal Ident RT Goat Cat. No. 5422211610 Genescan DNAnimal Ident RT Sheep Cat. No. 5422211710 Genescan DNAnimal Ident RT Pork Cat. No. 5422211910	A
	Detection of DNA from Mammals and birds Fish Pork and equine species	MOLBIO1.5 based on DNA extraction using SureFood Prep Basic Kit and detection and semi-quantification using Genescan DNAnimal Screen Mammal & Bird Cat. No. 5422212110 Genescan DNAnimal Screen Fish Cat. No. 5422211310 Genescan DNAnimal Screen Pork and equine species Cat. No. 5422221210	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD, FOOD PRODUCTS and SWABS (cont'd)	<u>Molecular Biology Tests</u> (cont'd)	Documented In-House Methods:	
	Detection and determination of animal and plant DNA	Methods developed and validated according to flexible scope procedure ALA/032 using commercial DNA extraction and PCR kits	A
FOOD AND CONSUMER PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods:	
Cannabis dried plant materials, oils, beverages, concentrates, confectionary, cosmetics and powders	Cannabidiol (CBD) Cannabidiolic acid (CBDA) Cannabinol (CBN) Δ9-tetrahydrocannabinol (Δ9-THC) Tetrahydrocannabinolic acid (THCA) Cannabichromene (CBC) Cannabidivarinic acid (CBDVA) Cannabigerol (CBG) Cannabigerolic acid (CBGA) Cannabidivarin (CBDV) Δ8-tetrahydrocannabinol (Δ8-THC) Tetrahydrocannabivarin (THCV) Tetrahydrocannabivarinic avid (THCVA) Cannabinolic acid (CBNA) Cannabichromenic (CBCA) Cannabicyclol (CBL)	CBD 01 using high performance liquid chromatography-diode array detection (HPLC-DAD)	A
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	Dimethylphenylsulfamide (DMSA)	Ofurace
2-Phenylphenol	Dimethylvinphos	Oxadiazon
3-chloroaniline	Diniconazole	Oxadixyl
Acetochlor	Dioxabenzofos	Oxyfluorfen
Acibenzolar-s-methyl	Diphenylamine	Paclobutrazol
Aclonifen	Endosulfan alpha	Parathion
Acrinathrin	Endosulfan sulfate	Parathion-methyl
Alachlor	Endosulfan, beta-	Penconazole
Aldrin	Endrin	Pendimethalin
Ametryn	EPN	Pentachloroaniline
Atrazine-desethyl	EPTC	Pentanochlor
Azaconazole	Etaconazole	Permethrin
Benflualin	Ethion	Phenothrin
Bifenazat	Ethofenprox	Phenthoate
Bifenox	Etrimfos	Phorate
Biphenthrin	Fenazaquin	Phosalone
Biphenyl	Fenchlorphos	Phosmet
Bitertanol	Fenitrothion	Phosphamidon
Boscalid	Fenoxycarb	Piperonyl butoxide
Bromacil	Fenpropathrin	Pirimiphos (-ethyl)
Bromophos (-ethyl)	Fenpropidin	Prochloraz
Bromopropylate	Fenson	Procymidone
Butralin	Fenthion	Profenofos
Carbaryl	Fenvalerate (all isomers)	Prometon
Carbophenothion	Fipronil	Propargite
Chinomethionate	Flucythrinate	Propetamphos
Cinidon-ethyl	Fludioxonil	Propham
Chlordane (total)	Flumetralin	Propiconazole
Chlordecon	Flurochloridone	Propoxur
Chlordimeform	Fonofos	Propyzamid
Chlorfenapyr	Formothion	Prosulfocarb
Chlorfenson	Furalaxyl	Prothiofos
Chlorfenvinphos	Furathiocarb	Pyrazophos
Chlormephos	HCH, alpha-	Pyridaben
Chlorobenzilate	HCH, beta-	Pyridaphenthion
Chloropropylate	HCH, delta-	Pyrifenox
Chlorothalonil	HCH, gamma (Lindane)	Pyrimethanil
Chlorpropham	Heptachlor	Pyrimidifen
Chlorpyrifos (-ethyl)	Heptachlor endo epoxide	Quinalphos
Chlorpyrifos-methyl	Hexachlorobenzene (HCB)	Quinoxyfen
Chlorthal-dimethyl	Hexaconazole	Quintozene
Chlorthion	Hexazinone	Secbumeton
Chlozolinate	Imazalil	Silafluofen
Cyanofenphos	Iodofenphos	Spirodiclofen
Cyflufenamid	Iprodione	Spiromesifen
Cyfluthrin	Isobenzan	Sulprofos

Table 1:

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

Cyhalothrin, lambda-	Isodrin	tau-Fluvalinate
Cypermethrin	Isofenphos	Tebuconazol
Cyproconazole	Isoprothiolane	Tebufenpyrad
Cyprodinil	Kresoxim-methyl	Tecnazene
DDD, p,p-	Lenacil	Tefluthrin
DDD, o,p-	Leptophos	Terbacil
DDE, o,p-	Lindane	Terbufos
DDE, p,p'-	MCPA-thioethyl	Terbumeton
DDT, o,p'-	Mecarbam	Tetrachlorvinphos
DDT, p,p-	Mepronil	Tetraconazole
Deltamethrin	Metazachlor	Tetradifon
Diazinon	Methidathion	Tetramethrin
Dichlobenil	Methracrifos	Tetrasul
Dichlofenthion	Metrafenone	Thiabendazole
Dichlofluanid	Metribuzin	Thiobencarb
Dichloran	Mevinphos	Tolclofos-methyl
Dichlorvos	Methoxychlor	Trifluralin
Dieldrin	Myclobutanil	Triallate
Diethofencarb	Nitrofen	Vegedex (Sulfallate)
Difenoconazole	Nitrothal-isopropyl	Vinclozolin
Dimethylaminosulphotoluidide (DMST)	Nuarimol	
	Octhilinone	

End of table 1

Table 2:

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

3-Hydroxycarbofuran	Ethiofencarb	Monocrotophos
Alanycarb	Ethiprole	Monuron
Acephate	Ethiofencarb-sulfone	Naphthalene acetamide
Acetamiprid	Ethiofencarb-sulfoxide	Napropamide
Aldicarb	Ethirimol	Nitenpyram
Aldicarb-sulfone	Ethofumesate	Norflurazon
Aldicarb-sulfoxide	Ethoprophos	Novaluron
Allethrin	Etoxazole	Noviflumuron
Ametoctradin	Famophos	Oxadiargyl
Amisulbrom	Famoxadone	Omethoate
Aminocarb	Famphur	Oxamyl
Anilazine	Fenhexamid	Oxydemeton-methyl
Anilofos	Fenamidone	Paraoxon-methyl
Asulam	Fenamiphos	Pencycuron
Atraton	Fenamiphos-sulfone	Pethoxamid

Table 2:

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

Atrazin	Fenamiphos-sulfoxide	Phenmedipham
Azinphos-methyl	Fenarimol	Phorate-sulfone
Azinophos-ethyl	Fenbuconazole	Phorate-sulfoxide
Azoxystrobine	Fenchlorphos oxon	Phosfolan
Benalaxyl	Fenpiclonil	Phoxim
Bendiocarb	Fenpropimorph	Picoxystrobin
Benfuracarb	Fenpyroximate	Picolinafen
Bensulide	Fensulfothion	Pirimicarb
Bentazone	Fenthion-sulfone	Pirimicarb, desmethyl-
Benthiavalicarb	Fenthion-sulfoxide	Pirimiphos-methyl
Bixafen	Flonicamid	Pretilachlor
Bromoxynil	Florasulam	Promecarb
Bromuconazole	Fluazifop-butyl	Prometryn
Bupirimate	Fluazifop-P-butyl	Propachlor
Buprofezin	Fluazinam	Propamocarb
Butachlor	Flubendiamide	Propanil
Butocarboxim	Flucycloxuron	Propaquizafop
Cadusaphos	Flufenacet	Propazin
Carbaryl	Flufenoxuron	Proquinazid
Carbetamide	Fluometuron	Prothioconazole-desthio
Carboxin	Fluopicolid	Pymetrozine
Carpropamid	Fluopyram	Pyraclostrobin
Carbendazim	Fluoxastrobin	Pyraflufen-ethyl
Carbofuran	Fluquinconazole	Pyrethrins
Carfentrazone-ethyl	Flurtamone	PYRIBUTICARB
Chlorantraniliprole	Flusilazole	Pyridate
Chlorfluazuron	Fluthiacet-methyl	Pyriproxyfen
Chloridazone	Flutolanil	Quassia
Chlorimuron-ethyl	Flutriafol	Quinoclamine
Chlorthiophos	Fluxapyroxad	Quizalofop ethyl
Chlorotoluron	Forchlorfenuron	Quizalofop-P-tefuryl
Chromafenozide	Formetanate HCl	Rimsulfuron
Climbazole	Fosthiazate	Rotenone
Clofentazine	Halofenozide	Simazine
Clodinafop-propargyl	Haloxyfop-methyl	Spinetoram
Clomazone	Heptenophos	Spinosad
Cloquintocet-mexyl	Hexaflumuron	Spirotetramat
Clothianidin	Hexythiazox (any ratio of constituent isomers)	Sulfentrazon
Coumaphos	Imazalil (any ratio of constituent isomers)	Sulfoxaflor
Crufomate	Imidacloprid	Sulfotep
Cyantraniliprole	Indoxacarb (sum, R+S isomers)	Tebufenozide
Cyanazine	IPCONAZOLE	Tebupirimfos
Cyazofamid	Iprobenfos	Teflubenzuron
Cyhalofop-Butyl		Temephos
Cymoxanil		Terbufos-sulfon

Table 2:

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

Dmeton-S-methyl	Iprovalicarb	Terbufos-sulfoxide
Demeton-S-methyl-sulfone	Isazofos	Terbuthylazine
Desmetryn	Isocarbofos	Terbutryn
Desmedipham	Isofenphos-Methyl	Thiacloprid
Dialifos	Isomethiozin	Thiamethoxam
Diclobutrazol	Isoprocarb	Thidiazuron
Diclofop-methyl	Isoproturon	Thiodicarb
Dicrotophos	Isoxaben	Thiocyclam
Diflubenzuron	Isoxaflutole	Thiofanox
Difenacoum	Isoxathion	Thiometon
Diflufenican	Linuron	Tollfluanid
Dimethylaminosulphotoluidide	Lufenuron	Triadimefon
(DMST)	Malaoxon	Triadimenol
Dimethenamid	Malathion	Triazoxide
Dimethoate	Mandipropamid	Trizoxide
Dimethomorph	Mepanipyrim	Triazophos
Dimoxystrobin	Mephosfolan	Trichlorfon
Dinoseb	Metaflumizone	Tricyclazol
Dinotefuran	Metalaxyl	Tridemorph
Dinoterb	Metamitron	Trietazine
Dioxathion	Metconazole	Trifloxystrobin
Diphenamid	Methamidophos	Triflumizole
Disulfoton-sulfon	Methabenzthiazuron	Triflumuron
Disulfoton-sulfoxide	Methiocarb	Triforine
Ditalimfos	Methiocarb-sulfone	Triflusulfuron-methyl
Diuron	Methiocarb-sulfoxide	Triticonazole
DNOC	Methomyl	Uniconazole
Dodemorf	Methoxyfenozid	Vamidothion
Dodine	Metolachlor	XMC
Edifenphos	Metolcarb	Zoxamide
Emamectin	Metoxuron	
Epoxyconazol (epoxiconazole)	Molinate	
ESPOCARB	Monolinuron	

End of Table 2