Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

SGS United Kingdom Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDS	Chemistry Tests	Documented In-house Methods:
Pet foods, wet & dry	Ash	CRM-C-TM-005 based on BS 4401 Part 1 1998 by gravimetric determination
	Crude fibre	CRM-C-TM-026 using Ankom 2000 automated fibre analyser
	Fat (total)	CRM-C-TM-015 by acid hydrolysis based on BS 4401 Part 4:1970
	Fatty acid profile: - saturated - monounsaturated - polyunsaturated - trans fatty acids - omega-3 fatty acids - omega-6 fatty acids (by calculation) - omega-9 fatty acids (by calculation)	CRM-C-TM-016 based on AOAC 996.06 using gas chromatography
	Moisture	CRM-C-TM-013 by gravimetric determination
	Nitrogen and protein by calculation	CRM-C-TM-004 by Dumas Nitrogen analyser
FOOD and FOOD PRODUCTS BEVERAGES	Ash	CRM-C-TM-005 based on BS 4401 Part 1 1998 by gravimetric determination
	Dietary fibre	CRM-C-TM-012 based on AOAC Method 991.43 using the ANKOM dietary fibre analyser

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD and FOOD PRODUCTS BEVERAGES (cont'd)	Chemistry Tests (cont'd)	Documented In-house Methods:
	Fat (total)	1. CRM-C-TM-015 by acid hydrolysis based on BS 4401 Part 4:1970
(including Beverages and Water)		2. CRM-C-TM-002 using Oracle Rapid NMR Fat Analyzer
	Fatty acid profile: - saturated - monounsaturated - polyunsaturated - trans fatty acids - omega-3 fatty acids	CRM-C-TM-016 based on AOAC 996.06 using gas chromatography
	Hydroxyproline	CRM-C-TM-006 based on BS 4401 Part 11:1995
	Moisture	CRM-C-TM-013 by gravimetric determination
	Nitrogen and protein by calculation	CRM-C-TM-004 by Dumas Nitrogen analyser
	Sodium	CRM-C-TM-009 by atomic emission spectroscopy
	Sugars: - Total - Fructose - Glucose - Galactose - Lactose - Maltose - Sucrose	CRM-C-TM-011 by HPLC
	Sugars - Total - Fructose - Glucose - Lactose - Maltose - Sucrose - Galactose	CRM-C-TM-029 by ion chromatography.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD and FOOD PRODUCTS BEVERAGES (cont'd)	Chemistry Tests (cont'd)	Documented In-house Methods:
	Water activity (aW)	CRM-C-TM-008 using water activity meter
	pH	CRM-C-TM-007 using pH/ion meter
	Calculations based on results of accredited methods: - 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 - Salt (sodium chloride) - Salt in aqueous phase	CRM-C-TM-018 by calculation
Brines, Dairy Products, Fish and Fish Products, Meat and Meat Products, Mycoprotein Products	Chloride (including salt by calculation)	CRM-C-TM-003 by titrimetry
Food and Food Products only	Sulphur dioxide	CRM-C-TM-028 by steam distillation and manual or auto titration based on BS EN 1988-1:1998
Meat and Meat Products only	Nitrate and Nitrite	CRM-C-TM-027 as Sodium Nitrate and Sodium Nitrite (by calculation) by Ion Chromatography
Vegetables	Nitrate	CRM-C-TM-027 as Sodium Nitrate and Sodium Nitrite (by calculation) by Ion Chromatography

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS, FOOD PRODUCTS, FEEDS and ENVIRONMENTAL SWABS	<u>Molecular Biology Tests</u>	Documented In-house Methods:
	Meat and fish speciation based on detection of DNA sequences	DNA extraction using CRM-N-TM-001, detection of DNA using CRM-N-TM-002 and/or CRM-N-TM-003 followed by CRM-N-TM-004 Ion Chef and GeneStudio Food Protection System Library Prep, CRM-N-TM-005 Ion GeneStudio 5S Food Protection System Preparation and CRM-N-006 All Species ID Software

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SWABS	Microbiological Tests	Documented In-house Methods:
	Detection of:	
	Campylobacter spp., confirmed	CRM-M-TM-011 based on BS EN ISO 10272-1:2017 +A1:2023 confirmed using MALDI TOF CRM-M-TM-054
	Escherichia coli O157 specific DNA (presumptive)	CRM-M-TM-051enrichment and PCR assay based on PD CEN ISO/TS 13136:2012 using spin column manual or QIAgen, QIAxtractor automated extraction, PCR and QIAxcel electrophoresis. Positive results confirmed using 16S DNA sequencing procedure CRM-M-TM-046
	Listeria species including *Listeria monocytogenes*	CRM-M-TM-034 in-house documented method using LESS plus broth, confirmed using MALDI TOF CRM-M-TM-054
	Salmonella spp., confirmed	CRM-M-TM-010 based on BS EN ISO 6579-1:2017+A1:2020 identified using MALDI TOF CRM-M-TM-054
	Salmonella spp., confirmed	CRM-M-TM-037 using Neogen BPW HQ + OBOP-S supplement and CASE selective media. Confirmation by Maldi-TOF (CRM-M-TM-054) or Microgen Salmonella Latex kit

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SWABS (cont'd)	Microbiological Tests (cont'd)	Documented In-house Methods:
	Enumeration of:	
	Aerobic Colony Count at 30°C	1) CRM-M-TM-003 based on BS EN ISO 4833-1:2013+A1:2022 at 72 hours 2) CRM-M-TM-003 at 48 hours (client specified)
	Coliforms at 37°C (presumptive)	CRM-M-TM-005 based on BS ISO 4832:2006
	Enterobacteriaceae (presumptive)	CRM-M-TM-006 based on BS EN ISO 21528-2:2017
	ß-glucuronidase positive *Escherichia coli*	1) CRM-M-TM-009 based on BS ISO 16649-2:2001 2) CRM-M-TM-019 customer specified method
	Lactic Acid Bacteria (presumptive)	CRM-M-TM-018 based on BS ISO 15214:1998
	Pseudomonas species (presumptive)	CRM-M-TM-012 based on BS EN ISO 13720:2010
	Coagulase-positive *Staphylococcus* (confirmed)	CRM-M-TM-008 based on BS EN ISO 6888-1:2021 +A1:2023, confirmed using Prolab or Oxoid Staphytest latex agglutination kits
	Yeasts and Moulds	CRM-M-TM-004 based on BS ISO 21527-1:2008 using DRBC agar for foods >0.95 Aw

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DAIRY PRODUCTS	Microbiological Tests (cont'd)	Documented In-house Methods:
	Enumeration of:	
	Aerobic Colony Count at 30°C	1) CRM-M-TM-003 based on BS EN ISO 4833-1:2013+A1:2022, using MPCA at 72 hours 2) CRM-M-TM-003 at 48 hours (client specified)
	Pseudomonas species (presumptive)	CRM-M-TM-012 based on BS EN ISO 13720:2010
FOODS and FOOD PRODUCTS (general unless specified)	Detection of:	
	Campylobacter spp., confirmed	CRM-M-TM-011 based on BS EN ISO 10272-1:2017 +A1:2023 confirmed using MALDI TOF CRM-M-TM-054
	Escherichia coli O157 specific DNA (presumptive)	CRM-M-TM-051 enrichment and PCR assay based on PD CEN ISO/TS 13136:2012 using spin column manual or QIAgen QIAxtractor automated extraction, PCR and QIAxcel electrophoresis. Positive results confirmed using 16S DNA sequencing procedure CRM-M-TM-046
	Listeria species including *Listeria monocytogenes*	CRM-M-TM-034 in-house documented Method using LESS plus broth, confirmed MALDI TOF CRM-M-TM-054
	Salmonella spp., confirmed	CRM-M-TM-010 based on BS EN ISO 6579-1:2017+A1:2020 identified using MALDI TOF CRM-M-TM-054

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS (general unless specified) (cont'd)	Microbiological Tests (cont'd)	Documented In-house Methods
	Detection of (cont'd):	
(including soft drinks)	*Salmonella* spp., confirmed	CRM-M-TM-037 using Neogen BPW HQ + OBOP-S supplement and CASE selective media. Confirmation by Maldi-TOF CRM-M-TM-054 or Microgen Salmonella kit
	Enumeration of:	
	Aerobic Colony Count at 30°C	1) CRM-M-TM-003 based on BS EN ISO 4833-1:2013+A1:2022 at 72 hours 2) CRM-M-TM-003 at 48 hours (client specified)
	Anaerobic Mesophilic Spore Count	CRM-M-TM-021 using heat treatment followed by RCA pour plate incubated anaerobically at 30ºC for 72 hours
	Clostridium perfringens	CRM-M-TM-014 based on BS ISO 15213-2:2023, confirmed using acid phosphatase reagent
	Coliforms at 37°C (presumptive)	CRM-M-TM-005 based on BS ISO 4832:2006
	Enterobacteriaceae (presumptive)	CRM-M-TM-006 based on BS EN ISO 21528-2:2017
	ß-glucuronidase positive *Escherichia coli*	1) CRM-M-TM-009 based on BS ISO 16649-2:2001 2) CRM-M-TM-019 based BS ISO 16649-2:2001 and customer specified method

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS (general unless specified) (cont'd)	Microbiological Tests (cont'd)	Documented In-house Methods
	Enumeration of (cont'd):	
	Lactic Acid Bacteria (presumptive)	CRM-M-TM-018 based on BS ISO 15214:1998
	Listeria species including *L. monocytogenes*	CRM-M-TM-007 based on BS EN ISO 11290-2:2017, identified using MALDI TOF CRM-M-TM-054
	Pseudomonas species (presumptive)	CRM-M-TM-012 based on BS EN ISO 13720:2010
	Coagulase-positive *Staphylococcus* (confirmed)	CRM-M-TM-008 based on BS EN ISO 6888-1:2021, confirmed using Prolab or Oxoid Staphytest latex agglutination kits
	Sulphite reducing bacteria (presumptive and confirmed)	CRM-M-TM-022 in-house method using ISA (non-ISO formulation) with confirmation using DNA sequencing procedure CRM-M-TM-046 /047
	Yeasts and Moulds	1) CRM-M-TM-004 based on BS ISO 21527-1:2008 using DRBC agar for foods >0.95 Aw 2) CRM-M-TM-004 based on BS ISO 21527-2:2008 using DG18 agar for foods < 0.95 Aw 3) CRM-M-TM-004 based on at 25°C for 5days using OSA agar for fruit juices and beverages
Breads, Dried Foods, Grains (cooked/uncooked), Condiments/Sauces & Dairy	*Bacillus cereus* (presumptive)	CRM-M-TM-013 based on BS EN ISO 7932:2004+A1:2020

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS (general unless specified) (cont'd)	Microbiological Tests (cont'd)	Documented In-house Methods
	Enumeration of (cont'd):	
Chicken & Chicken containing products	*Campylobacter* spp., confirmed	CRM-M-TM-033 based on BS EN ISO 10272-2:2017 +A2:2023 confirmation by MALDI TOF CRM-M-TM-054
	Detection of:	
Sea fish and Seafood Products	*Vibrio parahaemolyticus* and *Vibrio cholerae*	CRM-M-TM-020 based on BS EN ISO 21872-1:2017 +A1:2023 and customer specified method, confirmed with API 20NE or MALDI TOF CRM-M-TM-054
Presumptive culture isolates originating from test methods:		CRM-M-TM-054 identification by MALDI TOF Bruker BioTyper
Listeria: CRM-M-TM-007CRM-M-TM-034	Characterisation and identification to *Listeria* species level (including *L. monocytogenes)*	
Salmonella: CRM-M-TM-010	Characterisation and identification to *Salmonella* genus level	
Campylobacter: CRM-M-TM-011CRM-M-TM-033	Characterisation and identification to *Campylobacter* genus level	
Coliforms: CRM-M-TM-005CRM-M-TM-043	Characterisation of coliform isolates Characterisation and identification of coliform isolates	
Vibrio: CRM-M-TM-020	Characterisation and identification to *Vibrio* genus level	
MICROBIAL CULTURES	Molecular Biology Tests	Documented In-house Methods:
	Microbial identification	CRM-M-TM-046 / 047 using 16S/28S DNA sequencing using ABI3730 DNA sequencer and ABI Microseq Database

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS Drinking waters	<u>Microbiological Tests</u> Enumeration of:	
	Total Aerobic Counts at 22°C and 37°C	CRM-M-TM-038 based on the Microbiology of Drinking Water (2020) Part 7
(including bottled mineral water)	Coliforms and *Escherichia coli*	CRM-M-TM-043 based on the Microbiology of Drinking Water (2016) Part 4B E. coli confirmed using DNA sequencing procedures CRM-M-TM-046 /047 Coliforms confirmed using MALDI TOF CRM-M-TM-054
	Enterococci (Faecal Streptococci)	CRM-M-TM-044 based on the Microbiology of Drinking Water (2012) Part 5 and BS ISO7899-2:2012
	Pseudomonas aeruginosa (confirmed)	CRM-M-TM-040 based on Microbiology of Drinking Water (2015) Part 8
	Sulphite reducing Clostridia	CRM-M-TM-039 based on Microbiology of Drinking Water (2021) Part 6a
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