Schedule of Accreditation

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Government Analysts Laboratory

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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
ALCOHOLIC BEVERAGES	Chemical Tests	In-House Methods based on British and International Standards
	Alcoholic strength	In-House Method TM-C048 based on BS 733: Part 2:1987 and ISO 3507:1999 using density, obscuration
DAIRY PRODUCTS	Chemical Tests	In-House Methods based on British Standards
Cheese	Fat	In-House Method TM-C005 based on ISO 1735:2004 using Acid hydrolysis/solvent extraction/gravimetric weighing
	Nitrogen	In-House Method TM-C004 based on BS 770: Part 8:1987 using Kjeldahl digestion
Cream	Fat	In-House Method TM-C002 based on IDF 16C:2008/ BS EN ISO 2450:2008 using Alkaline hydrolysis/solvent extraction/gravimetric weighing
	Total Solids	In-House Method TM-C001 based on BS ISO 6731:2010 IDF 21:2010 using Oven drying followed by gravimetric weighing

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DAIRY PRODUCTS (cont'd)	Chemical Tests (cont'd)	In-House Methods based on British Standards
Ice Cream	Fat	In-House Method TM-C003 based on BS EN ISO 23318:2022 using Alkaline hydrolysis/solvent extraction/gravimetric weighing
	Total Solids	In-House Method TM-C006 based on BS ISO 3728:2004 using Oven drying followed by gravimetric weighing
Milk	Acidity	In-House Method TM-C020 based on BS 1741: Section 10.1:1989 using Titration
	Freezing Point Depression	In-House Method TM-C019 based on ISO 5764:2009 [IDF 108:2009] using Cryoscope
	Antibiotics	In-House Method TM-C016 based on Technical data sheet, Delvotest SP™ Gist-Brocades NV using Colorimetric bacteria inhibition
	Fat	In-House Method TM-C010 based on IDF 1D:1996 using Alkaline hydrolysis/solvent extraction and gravimetric weighing
	Phosphatase	In-House Method TM-M010 based on SI 1989/2383 Schedule 5, Part IV using Colorimetry
	Total Solids	In-House Method TM-C009 based on BS ISO 6731:2010 and IDF 21B:1987 using Oven drying followed by gravimetric weighing

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
MEAT AND MEAT PRODUCTS	Chemical Tests (cont'd)	In-House Methods based on British Standards
	Ash	In-House Method TM-C012 based on BS 4401-1:1998 using ashing followed by gravimetric weighing
	Fat	In-House Method TM-C014 based on BS 4401: Part 4:1970 using Acid hydrolysis/solvent extraction/ gravimetric weighing
	Hydroxyproline	In-House Method TM-C081 based on BS 4401-11:1995 using microwave digestion followed by UV-visible spectrophotometry
	Moisture	In-House Method TM-C013 based on BS 4401-3:1997 using Oven drying followed by gravimetric weighing
	Nitrogen	In-House Method TM-C015 based on BS 4401: Part 2:1980 using Kjeldahl digestion, copper catalyst

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS AND FOOD PRODUCTS Unspecified	<u>Microbiological Tests</u> Enumeration: *Escherichia coli,* presumptive	In-House Methods based on British Standards In-House Method TM-M003 based on BS ISO 7251:2005 + A1:2023 using Multiple Tube
	Coagulase Positive *Staphylococcus*	In-House Method TM-M013 using Staph Brilliance 24 and confirmation with Staphylase
	Total aerobic organisms at 30°C	In-House Method TM-M001 based on BS EN ISO 4833-1:2013 + A1:2022 using Plate Count
	Detection: *Escherichia coli* O157:H7	In-House Method TM-M025 based on AOAC Official Method No. 2000 using the 20 hour Reveal method, with confirmation by latex agglutination (presence/absence in 25 g)
DAIRY PRODUCTS Unspecified	Enumeration: *Escherichia coli*, presumptive	In-House Method TM-M006 based on ISO 7251:2005 using Multiple Tube
WATERS Potable, Surface and Ground	<u>Chemical Tests and Physical Tests</u>	In-House Methods based on procedures in the HMSO Portable series “Method for the Examination of Waters and Associated Materials”, specified by ISBN and by year of publication
	Alkalinity (total)	In-House Method TM-C028 ISBN 011 751 601 5, 1981, using titrimetry
	Ammonium	In-House Method TM-C031 ISBN 011 751 613 9, 1981, filtration/colorimetric
	Chloride, Nitrate, Nitrite, Phosphate and Sulphate	In-House Method TM-C229 ISBN 011 752 331 3, 1990 using Ion chromatography

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd) Potable, Surface and Ground (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	In-House Methods based on procedures in the HMSO Portable series "Method for the Examination of Waters and Associated Materials", specified by ISBN and by year of publication
	Free Chlorine	In-House Method TM-C040 using HACH test kit using Colorimetric
	Conductivity	In-House Method TM-C027 ISBN 011 751 428 4, 1978 using Potentiometric
	pH	In-House Method TM-C021 ISBN 011 752 084 5, 1988 using Potentiometric
Potable Water	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel and Zinc	In-House Method TM-C209 using ICP-MS based on instrument manufacturer procedures
Surface and Ground	Biological oxygen demand	1) In-House Method TM-C024 ISBN 011 752 212 0, 1989 using Winkler iodometric 2) In-House Method TM-C025 ISBN 011 752 212 0, 1989 oxygen probe with and without ATU suppression
	Fluoride	In-House Method TM-C229 using Ion Chromatography
	Suspended solids	In-House Method TM-C050 ISBN 011 751 787 9, 1984, filtration/gravimetric weighing

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WASTE WATERS Untreated and Treated Trade and Domestic Effluents	<u>Chemical Tests and Physical Tests</u>	In-House Methods based on procedures in the HMSO Potable series "Methods for the Examination of Waters and Associated Materials", specified by ISBN and by year of publication
	Ammonium	In-House Method TM-C031 ISBN 011 751 613 9, 1981, filtration/colorimetric
	Biological Oxygen Demand	1) In-House Method TM-C024 ISBN 011 752 212 0, 1989 using Winkler iodometric 2) In-House Method TM-C025 ISBN 011 752 212 0, 1989, using oxygen probe with/without ATU suppression
	Conductivity	In-House Method TM-C027 ISBN 011 751 428 4, 1978 using Potentiometric
	pH	In-House Method TM-C021 ISBN 011 752 084 5, 1988 using Potentiometric
	Suspended solids	In-House Method TM-C050 ISBN 011 751 787 9, 1984, filtration/gravimetric weighing
WATERS (Drinking including Bottled Waters, Saline and Recreational)	<u>Microbiological Tests</u> Enumeration:	In-House Methods based on The Microbiology of Drinking Water (MDW) Series as indicated
	Coliforms, confirmed	In-House Method TM-M020 using Colilert™ using MPN based on MDW (2016) part 4D
	Enterococci	In-house method TM-M022 using membrane filtration based on MDW (2012) Part 5

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (Drinking including Bottled Waters, Saline and Recreational) – (cont'd)	Microbiological Tests (cont'd)	In-House Methods based on The Microbiology of Drinking Water (MDW) Series as indicated
	Enumeration (cont'd)	
	Escherichia coli, confirmed	In-House Method TM-M020 using Colilert™ using MPN based on MDW (2016) Part 4D
	Total aerobic organisms at 22 °C and 37 °C	In-House Method TM-M009 using Plate count based on MDW (2020) Part 7A
WATERS (Drinking)	Detection and enumeration of *Legionella* spp.	In-House Method TM-M024 based on ISO 11731:2017 using filtration with washing, using GVPC. Confirmation using BYCE [Matrix A; Procedure 5]
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