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	Documented In-House Methods based on British and International Standards
	Alcoholic strength	Documented In-House Method No 048 based on BS 733:Part 2:1987 and ISO 3507:1999 using density, obscuration
DAIRY PRODUCTS	Chemical Tests	Documented In-House Methods based on British Standards
Cheese	Fat	Documented In-House Method No 005 based on ISO 1735:2004 using Acid hydrolysis/solvent extraction/gravimetric weighing
	Nitrogen	Documented In-House Method No 004 based on BS 770:Part 8:1987 using Kjeldahl digestion
Cream	Fat	Documented In-House Method No 002 based on IDF 16C:2008/BS EN ISO 2450:2008 using Alkaline hydrolysis/solvent extraction/gravimetric weighing
	Total Solids	Documented In-House Method No 001 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)	Documented In-House Methods based on British Standards
Ice Cream	Fat	Documented In-House Method No 003 based on BS EN ISO 7328:2008 using Alkaline hydrolysis/solvent extraction/gravimetric weighing
	Total Solids	Documented In-House Method No 006 based on BS ISO 3728:2004 using Oven drying followed by gravimetric weighing
Milk	Acidity	Documented In-House Method No 020 based on BS 1741:Section 10.1:1989 using Titration
	Freezing Point Depression	Documented In-House Method No 019 based on ISO 5764:2009 [IDF 108:2009] using Cryoscope
	Antibiotics	Documented In-House Method No 016 based on Technical data sheet, Delvotest SP™ Gist-Brocades NV using Colorimetric bacteria inhibition
	Fat	Documented In-House Method No 010 based on IDF 1D:1996 using Alkaline hydrolysis/solvent extraction/gravimetric weighing
	Phosphatase	Documented In-House Method No M10 based on SI 1989/2383 Schedule 5, Part IV using Colorimetry
	Total Solids	Documented In-House Method No 009 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)	Documented In-House Methods based on British Standards
	Ash	Documented In-House Method No 012 based on BS 4401-1:1998 using ashing followed by gravimetric weighing
	Fat	Documented In-House Method No 014 based on BS 4401:Part 4:1970 using Acid hydrolysis/solvent extraction/ gravimetric weighing
	Hydroxyproline	Documented In-House Method No 081 based on BS 4401-11:1995 using microwave digestion followed by UV-visible spectrophotometry
	Moisture	Documented In-House Method No 013 based on BS 4401-3:1997 using Oven drying followed by gravimetric weighing
	Nitrogen	Documented In-House Method No 015 based on BS 4401:Part 2:1980 using Kjeldahl digestion, copper catalyst
SHELLFISH	Chemical Tests	
King and Queen scallops	Amnesic Shellfish Poisoning Toxin - Domoic Acid	Documented In-House Method No 197 using LC/MS/MS
	Diarrhetic Shellfish Poisoning Toxins: Okadaic acid Azaspiracid-1 (AZA 1) Dinophysis toxin-1 (DTX-1) Dinophysis toxin-2 (DTX-2)	Documented In-House Method No 199 using LC/MS/MS

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:	Documented In-House Methods based on British Standards
	Escherichia coli, presumptive	Method No M3 based on BS EN ISO 7251:2005 using Multiple Tube
	Coagulase Positive *Staphylococcus*	Method No M13 using Staph Brilliance 24 and confirmation with Staphylase
	Total aerobic organisms at 30°C	Method No M1 based on BS EN ISO 4833-1:2013 using Plate Count
	Detection:	
	Escherichia coli O157:H7	Documented In-House Method No M25 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	Method No M6 based on ISO 7251:2005 using Multiple Tube
WATERS Potable, Surface and Ground	<u>Chemical Tests and Physical Tests</u>	Documented 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 No 028 ISBN 011 751 601 5, 1981, using titrimetry
	Ammonium	In-House Method No 031 ISBN 011 751 613 9, 1981, filtration/colorimetric
	Chloride	In-House Method No 032 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)	Documented 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 No 040 using HACH test kit using Colorimetric
	Conductivity	In-House Method No 027 ISBN 011 751 428 4, 1978 using Potentiometric
	Nitrate	In-House Method No 032 ISBN 011 752 331 3, 1990 using Ion chromatography
	Nitrite	In-House Method No 032 ISBN 011 752 331 3, 1990 using Ion chromatography
	Phosphate	In-House Method No 032 using Ion chromatography
	pH	In-House Method No 021 ISBN 011 752 084 5, 1988 using Potentiometric
	Sulphate	In-House Method No 032 ISBN 011 752 331 3, 1990 using Ion chromatography
Potable Water	Aluminium, Cadmium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium and Zinc	Documented In-House Method No 196 using ICP-OES based on Varian Booklet No. 30 – Determination of 22 Elements following US EPA guidelines
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel and Zinc	Documented In-House Method No 209 using ICP-MS based on instrument manufacturer procedures

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests and Physical Tests (cont'd)	
Surface and Ground	Biological oxygen demand	1) In-House Method No 024 ISBN 011 752 212 0, 1989 using Winkler iodometric 2) In-House Method No 025 ISBN 011 752 212 0, 1989 oxygen probe with and without ATU suppression
	Fluoride	In-House Method No 032 using Ion Chromatography
	Aluminium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium and Zinc	Documented In-House Method No 196 using ICP-OES based on Varian Booklet No. 30 – Determination of 22 Elements following US EPA guidelines
	Suspended solids	In-House Method No 050 ISBN 011 751 787 9, 1984, filtration/gravimetric weighing
WASTE WATERS Untreated and Treated Trade and Domestic Effluents	Chemical Tests and Physical Tests	Documented 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
	Alkalinity (total)	In-House Method No 028 ISBN 011 751 601 5, 1981, using titrimetry
	Ammonium	In-House Method No 031 ISBN 011 751 613 9, 1981, filtration/colorimetric
	Biological Oxygen Demand	1) In-House Method No 024 ISBN 011 752 212 0, 1989 using Winkler iodometric 2) In-House Method No 025 ISBN 011 752 212 0, 1989, using oxygen probe with/without ATU suppression

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WASTE WATERS (cont'd) Untreated and Treated Trade and Domestic Effluents (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented 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
	Conductivity	In-House Method No 027 ISBN 011 751 428 4, 1978 using Potentiometric
	pH	In-House Method No 021 ISBN 011 752 084 5, 1988 using Potentiometric
	Suspended solids	In-House Method No 050 ISBN 011 751 787 9, 1984, filtration/gravimetric weighing
WATERS (Drinking including Bottled Waters, Saline and Recreational)	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water (MDW) Series as indicated
	Enumeration:	
	Coliforms, confirmed	Method No M 20 using Colilert™ using MPN based on MDW (2016) part 4D
	Enterococci	Documented in-house method No M22 using membrane filtration based on MDW (2012) Part 5
	Escherichia coli, confirmed	Method No M20 using Colilert™ using MPN based on MDW (2016) Part 4D
	Total aerobic organisms at 22 °C and 37 °C	Method No M9 using Plate count based on MDW (2012) Part 7A
END		