


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p style="text-align: center;"><b>Accredited to ISO/IEC 17025:2005</b></p>	<h3 style="margin: 0;">Somerset Scientific Services</h3> <p style="margin: 0;">Issue No: 048    Issue date: 12 May 2011</p>	
	<p><b>County Laboratory</b> County Hall Taunton Somerset TA1 4DY</p>	<p><b>Contact: Mr N K Payne</b> Tel: +44 (0)1823 357240 Fax: +44 (0)1823 356119 E-Mail: NKPayne@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p>

**Testing performed by the Organisation at the locations specified below**

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

##### Laboratory locations:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Address</b> County Laboratory County Hall Taunton Somerset TA1 4DY</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Local contact</b> Mr N K Payne  Tel: +44 (0)1823 357240 Fax: +44 (0)1823 356119 Email: NKPayne@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p> </td> </tr> </table>	<p><b>Address</b> County Laboratory County Hall Taunton Somerset TA1 4DY</p>	<p><b>Local contact</b> Mr N K Payne  Tel: +44 (0)1823 357240 Fax: +44 (0)1823 356119 Email: NKPayne@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p>	Microbiology and Analytical Chemistry testing	A
<p><b>Address</b> County Laboratory County Hall Taunton Somerset TA1 4DY</p>	<p><b>Local contact</b> Mr N K Payne  Tel: +44 (0)1823 357240 Fax: +44 (0)1823 356119 Email: NKPayne@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p>			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Address</b> Chelston Wellington Somerset TA21 9HP</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Local contact</b> Mrs S Larkman  Tel: +44 (0)1823 653680 Fax: +44 (0)1823 666593 Email: sjlarkman@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p> </td> </tr> </table>	<p><b>Address</b> Chelston Wellington Somerset TA21 9HP</p>	<p><b>Local contact</b> Mrs S Larkman  Tel: +44 (0)1823 653680 Fax: +44 (0)1823 666593 Email: sjlarkman@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p>	Health and Hygiene	D
<p><b>Address</b> Chelston Wellington Somerset TA21 9HP</p>	<p><b>Local contact</b> Mrs S Larkman  Tel: +44 (0)1823 653680 Fax: +44 (0)1823 666593 Email: sjlarkman@somerset.gov.uk Website: www.somerset.gov.uk/scientificservices</p>			

##### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises including domestic, commercial and industrial	Health and Hygiene	B
Mobile Testing Laboratory	Health and Hygiene	C



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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 or Methods from 'Analytical Methods Manual for VEMS' Association of Public Analysts (identified by method number VEMS x)	
	Aflatoxin B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub>	IH0012 by High Performance Liquid Chromatography (HPLC)	A
	Ash	IH0023 by gravimetry	A
	Fibre (crude)	IH0026 by digestion and gravimetry	A
	Melamine	IH0142 by LC-MS/MS	A
	Mercury	IH0047 by cold vapour AAS	A
	Moisture	IH0024 by gravimetry	A
	Nitrogen	IH0017 by combustion technique	A
	Ochratoxin and Zearalenone	IH0121 by HPLC	A
	Oil	IH0025 by acid hydrolysis and rapid solvent extraction	A
	Sodium, Potassium, Magnesium, Calcium and Phosphorus	IH0033 by ICP-AES	A
	Theobromine	IH0052 by HPLC	A
	Vitamin A and Vitamin E	IH0074 by HPLC	A
Trace elements: Arsenic Cadmium Cobalt Chromium Copper Manganese Molybdenum Lead Zinc Iron	IH0077 by ICP-AES	A	



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ASBESTOS FIBRES IN AIR	<u>Health and Hygiene</u>	Health and Safety Executive Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG 248)	
	Fibre Counting	HSG 248:February 2005 by Membrane Filter Method using Phase Contrast Microscopy (PCM) by Documented In-House Method No R22	D, C
	Sampling of air for fibre counting	HSG 248:February 2005 by Documented In-House Method No R25	B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	4 Stage Clearance Process	HSG 248:February 2005 by Documented In-House Method No R25	B
	Sampling of bulk materials for asbestos identification	HSG 248:February 2005 by documented in house method No R24	B
FOOD	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House Method No R23 using stereo-microscopy, polarised light microscopy and dispersion staining and phase contrast	D
	<u>Chemical Tests</u>	Documented In-House Methods:	
BEVERAGES, non alcoholic			
Coffee and coffee products	Caffeine	IH0114 using HPLC	A
BUTTER	Salt content	IH0101 based on BS 5086:Part 5:1985 (superseded)	A
	Water, Solids-not-fat, Fat	IH0102 based on BS 5086:Part 2:1984 (withdrawn)	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)		
CHEESE	Fat	IH0091 based on BS 770:Part 3:1989 (withdrawn)	A
	Water content	IH0090 based on BS 770:Part 2:1976(1985)	A
COCOA and CHOCOLATE PRODUCTS			
Cocoa, chocolate	Preparation of fat and solids for further examination	IH0135 by rapid extraction using the Gerhardt Soxtherm system	A
	Theobromine, Caffeine	IH0134 using HPLC	A
FISH and FISH PRODUCTS	Total volatile nitrogen	IH0037 by distillation	A
FISH	Identification of Fish species	IH0125 by PCR - RFLP using Agilent 2100 Bioanalyser	A
Frozen, cooked and peeled prawns	Ice glaze content	IH0118 by gravimetry	A
FRUIT PRODUCTS AND PROCESSED FRUIT			
Apple juice AND PUREE	Patulin	IH0068 by HPLC	A
Fruit Juice	Soluble solids	IH0112 by refractometry	A
	Vitamin C	IH0131 by HPLC	A
HONEY and HONEY PRODUCTS	Diastase activity	IH0110 based on Schade Method	A
	Hydroxymethylfurfural	IH0040 using HPLC	A
	Moisture	IH0092 by refractometry	A
	Water Insoluble solids	IH0093 by gravimetry	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)		
INTOXICATING LIQUOR			
Alcoholic drinks	Ethanol	IH0084 using GC	A
	Specific gravity Alcohol content	IH0037 and IH0038 by distillation and pycnometry	A
Spirits	Ethanol	IH0094 by obscuration based on BS 733:Part 1:1983 (withdrawn) and BS 733:Part 2:1987	A
	Congeners	IH0031 by GC	A
	Sugars	IH0046 by Anion Exchange Chromatography	A
Wine	Acidity (total)	A0016 by titrimetry	A
MEAT - FRESH and FROZEN	Bovine casein and caseinates	IH0065 using ELISA	A
MEAT PRODUCTS and PROCESSED MEAT	HADH activity	IH0119 using enzymatic techniques	A
	Hydroxyproline	IH0013 based on BS 4401:Part 11:1979 (superseded)	A
	Identification of species	IH0019 by Enzyme-Linked Immuno Sorbent Assay (ELISA)	A
	Total Volatile Nitrogen	IH0137 by distillation	A
	Soya	IH0060 using ELISA kit	A
	Vitamin C	C0147 by HPLC	A
MILK, LIQUID	Fat	IH0097 based on BS 1741:Part 3:1987 (withdrawn)	A
	Freezing Point Depression	IH0066 based on BS 3095:Section 1.1:1988 by thermistor cryoscope	A
	Titrateable Acidity	IH0100 using titration based on BS 1741:Section 10:1989	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)		
MILK, LIQUID (cont'd)	Total solids in raw, heat treated, whole, semi-skimmed, skimmed	IH0098 based on BS 1741:Part 2:1990	A
MILK POWDER	Melamine	IH0142 by LC-MS/MS	A
MILK PRODUCTS	Bovine casein and caseinates	IH0065 using ELISA	A
Cream	Fat	IH0113 based on BS 1741:Part 4:1987 (withdrawn) by gravimetry	A
OILS and FATS	Preparation of fat for examination	IH0108 using methanol/chloroform extraction or IH0028 using ether extraction	A
	Butterfat in fat	IH0096 using GC	A
	Cholesterol	IH0115 based on AOAC Official Methods of Analysis 1984 28.092 and 28.110	A
	Fatty acid profile characterisation	IH0087 based on BS 684:Section 2.35:1990 method using GC IH0086 Preparation of methyl esters based on BS 684:Section 2.34:1980 (superseded)	A
	Free fatty acids	IH0106 using titrimetry	A
PRESERVES			
Jam	Dry soluble solids	IH0112 by refractometry	A
SOFT DRINKS	Colouring matter (quantitative determination)	IH0039 using HPLC	A
	Specific gravity	IH0037 using pycnometry	A
	Sweeteners and preservatives	IH0089 using HPLC	A
SUGAR and SUGAR CONFECTIONERY	Colouring matter (quantitative determination)	IH0039 using HPLC	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)		
FOODS, General	Development or modification of methods/analysis based on the techniques of HPLC, GC, AAS, ICP, UV-spectroscopy and microscopy	Documented In-House Procedures covered by Protocol 45/46	A
	Aflatoxin B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub>	IH0012 by HPLC	A
	Alcohol (Ethanol)	IH0107 using distillation and GC	A
	Ash	IH0079 by gravimetry	A
	Dietary Fibre	IH0124 (based on AOAC Method)	A
	Fat	IH0081 by acid digestion	A
	Fat	IH0016 by acid hydrolysis and rapid extraction	A
	Gluten	IH0078 by immunoassay	A
	Mercury	IH0047 by cold vapour AAS	A
	Moisture	IH0082 by gravimetry (Official Method)	A
	Moisture	IH0022 by direct oven drying (Routine Method)	A
	Moisture	IH0010 by vacuum oven	A
	Nitrate	IH0032 by Ion Chromatography	A
	Nitrite	IH0111 based on BS 4401:Part 8:1976	A
	Nitrogen and crude protein	IH0080 by digestion block	A
	Nitrogen and crude protein	IH0017 by combustion technique	A
	pH	IH0109 using pH meter	A
	Sodium, Calcium, Potassium Magnesium and Phosphorus	IH0033 using ICP-AES	A



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)		
FOODS, General (cont'd)	Sorbic and Benzoic Acids	IH0088 using steam distillation and using HPLC	A
	Sugar	IH0009 by Luff-Schoorl Titration	A
	Sulphur Dioxide	IH0083 by distillation and redox titration	A
	Vitamin A	IH0074 by HPLC	A
	Vitamin E	IH0074 by HPLC	A
FOOD AND ANIMAL FEEDING STUFFS	Screening of Genetically modified maize and soya	IH0073 by PCR	A
	Detection and Quantification of Round-up ® Ready Soya	IH0127 using Real time PCR	A
FOODS, General	<u>Chemical Tests</u>		
	<u>Calculated Values</u>		
	Nutrients	IH0120	A
	<u>Microbiological Tests</u>		
	Enumeration of:		
	<i>Bacillus cereus</i>	M031 using MYP selective agar at 30 °C and spore stain confirmation	A
	Coliforms	M033 using VRBA layer plate at 30 °C or 37 °C	A
	Enterobacteriaceae	M022 using VRBGA layer plate at 37 °C	A
	<i>Escherichia coli</i>	M036 using TBX chromogenic agar at 44 °C	A
	<i>Staphylococcus aureus</i>	M002 using Baird Parker Agar at 37 °C and commercial Coagulase latex kit	A



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FOODS, General (cont'd)	<u>Microbiological Tests</u> (cont'd)		
	Total Aerobic Colony Count	M001 by spiral plate using PCA or milk agar	A
	Isolation of: <i>Escherichia coli</i> O157 (detection)	M037 using selective enrichment culture and IMS	A
	<i>Salmonella</i> spp	M034 using selective enrichment culture (2 broths) and selective plating and biochemical confirmation	A
	<i>Listeria</i> spp including <i>L. monocytogenes</i>	M006 using selective enrichment culture, selective plating and biochemical kit confirmation	A
TOILETRIES AND COSMETICS (including raw materials and wipes)	<u>Microbiological Tests</u>	In-house methods identified by method number using client defined methods	
	Enumeration: Total Aerobic Colony Count, Yeasts and moulds and Clostridia	M041	A
WATERS Raw and Potable Waters	<u>Chemical Tests</u>	Methods documented in-house based on/incorporating 'Methods for the Examination of Water and Associated Materials' Dept of the Environment Standing Committee of Analysts identified by method number	
	Aluminium Barium Boron Chromium Copper Iron Manganese Nickel Silver Zinc	W151 by ICP-AES	A



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WATERS Raw and Potable Waters (cont'd)	<u>Chemical Tests</u> (cont'd)	Methods documented in-house based on/incorporating 'Methods for the Examination of Water and Associated Materials' Dept of the Environment Standing Committee of Analysts identified by method number (cont'd)	
	Ammonia	W032 based on ISBN 011 751 6139 HMSO 1981	A
	Calcium Magnesium Sodium Potassium	W135 by ICP-AES	A
	Total hardness	W015 based on ISBN 011 751 600 7 HMSO 1981	A
	Turbidity	W110 by ratio turbidimeter	A
Raw and Potable and Recreational Waters	Chlorine, free and combined	W030/W133 using Nessler technique	A
WATERS Raw and Potable WASTE WATERS Untreated and treated domestic and individual wastewaters LEACHATES	<u>Chemical Tests</u>		
	Alkalinity	W014 based on ISBN 011 751 601 5 HMSO 1981	A
	Conductivity (screening method)	W101 based on ISBN 011 751 428 4 HMSO 1978	A
	Fluoride Chloride Nitrate Phosphate Sulphate	W100 based on ISBN 011 752 331 3 HMSO 1990	A
	Nitrite	W017 based on ISBN 011 751 593 0 HMSO 1981	A



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WATERS Raw and Potable WASTE WATERS Untreated and treated domestic and individual wastewaters LEACHATES (cont'd)	<u>Chemical Tests</u> (cont'd)		
	pH	W001 based on ISBN 011 751 428 4 HMSO 1978	A
	Suspended Solids and Suspended Solids (ignited)	W005 based on ISBN 011 751 957 X HMSO 1980	A
	Total Dissolved Solids	W013 based on ISBN 011 751 957 X HMSO 1980	A
WASTE WATERS Untreated and treated domestic and individual wastewaters LEACHATES	Total Organic carbon	W003 using autoanalyser	A
	<u>Chemical Tests</u>		
	Ammonia	W153	A
	Biochemical Oxygen Demand	W009 based on ISBN 011 751 630 9	A
	Chemical Oxygen Demand (COD)	W011 using colorimetry	A
WATERS	Nickel Lead Copper Zinc Iron Cadmium Manganese Chromium	W122 by ICP-AES	A
	<u>Microbiological Tests</u>		
	Total Aerobic Colony Counts at 22 °C, 30 °C and 37 °C	Documented in-house procedures identified by method number based on Environment Agency; "The Microbiology of Drinking Water"	
		M008 based on Part 8	A
	Coliforms	M015 by membrane filtration based on Part 4A	A



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)		
	<i>Escherichia coli</i>	M014 by membrane filtration based on Part 4A	
	Coliforms and <i>Escherichia coli</i>	M028 by Most Probable Number (MPN) using IDEXX Colilert Quantitray system based on Part 4D	A
	<i>Pseudomonas aeruginosa</i>	M016 based on Part 8	A
	Enterococci (Faecal streptococci)	M012 based on Part 5	A
END			