


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Glasgow City Council</h3> <p>Issue No: 034 Issue date: 08 May 2011</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AIRBORNE POLLUTANTS	<u>Health and Hygiene</u> Benzene	Documented In-House Method LSD.MS.04 using Passive Sampling, Thermal Desorption and GC/MS analysis
AIRBORNE POLLUTANTS adsorbed on diffusion tubes	Nitrogen dioxide adsorbed as nitrite on triethanolamine treated diffusion tubes	Documented In-House Method LSD.ENV.40 using colorimetry
AIRBORNE POLLUTANTS adsorbed on Tenax	Volatile organic compounds	Documented In-House Method LSD.MS.01 using thermal desorption followed by GC-MS
AIRBORNE POLLUTANTS by atmospheric deposit gauges	Sample preparation	Documented In-House Method LSD.ENV.40, Section 1, Method 1, based on BS 1747:Part 1:1969
	Total dried undissolved matter	Documented In-House Method LSD.ENV.40, Section 1, Method 2, based on BS 1747:Part 1:1969 using gravimetry
	Ash content of the total, dried undissolved matter	Documented In-House Method LSD.ENV.40, Section 1, Method 3, based on BS 1747:Part 1:1969 using gravimetry
	pH of gauge bottle liquid	Documented In-House Method LSD.ENV.40, Section 1, Method 5, based on BS 1747:Part 1:1969 using pH meter



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AIRBORNE POLLUTANTS by atmospheric deposit gauges (cont'd)	<u>Health and Hygiene</u> (cont'd) Total dissolved solids	Documented In-House Method LSD.ENV.40, Section 1, Method 6, based on BS 1747:Part 1:1969 using gravimetry
AIRBORNE POLLUTANTS on glass fibre filters	Dissolved calcium, chloride and sulphate	Documented In-House Method LSD.ENV.40, Section 1, Method 7 based on BS 1747:Part 1:1969 using HPLC and colorimetry
AIRBORNE POLLUTANTS	Dust	Documented In-House Method LSD.ENV.40, Section 7, Method 1, based on MDHS 14 using a microbalance
AIRBORNE POLLUTANTS	Suspended matter (smoke)	Documented In-House Method LSD.ENV.40, Section 5, Method 1, using reflectance measurement
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House procedure, LSD.ENV.30, Method 1, using stereo-microscopy, polarised light microscopy and dispersion staining
CONSUMER PRODUCTS	<u>Physical/Performance Tests</u>	
- CHILD USE AND CARE ARTICLES - CUTLERY AND FEEDING UTENSILS	General requirements	Documented In-House Method LSD.ENV.15, Section 1, Method 1, based on BS EN 14732:2004, Clause 5.2.1
	Examination of points and wires	Documented In-House Method LSD.ENV.15, Section 1, Method 2, based on BS EN 14732:2004, Clause 5.2.2
	Assessment of accessibility of points	Documented In-House Method LSD.ENV.15, Section 1, Method 2, Appendix 1, based on BS EN 14732:2004, Clause 5.2.2



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<p>CONSUMER PRODUCTS (cont'd)</p> <p>- CHILD USE AND CARE ARTICLES - CUTLERY AND FEEDING UTENSILS (cont'd)</p>	<p><u>Physical/Performance Tests</u> (cont'd)</p> <p>Examination of edges</p> <p>Examination of accessibility of edges</p> <p>Examination of small parts</p> <p>Examination of holes and finger traps</p> <p>Examination of mechanical requirements (tensile strength, torque test, tear resistance, strength/rigidity and drop test)</p> <p>Migration of Antimony, Arsenic, Barium, Cadmium, Chromium, Lead and Selenium</p> <p>Labelling assessment</p>	<p>Documented In-House Method LSD.ENV.15, Section 1, Method 3, based on BS EN 14732:2004, Clause 5.2.3</p> <p>Documented In-House Method LSD.ENV.15, Section 1, Method 3, Appendix 1, based on BS EN 14732:2004, Clause 5.2.3</p> <p>Documented In-House Method LSD.ENV.15, Section 1, Method 4, based on BS EN 14732:2004, Clause 5.2.4</p> <p>Documented In-House Method LSD.ENV.15, Section 1, Method 5, based on BS EN 14732:2004, Clause 5.2.5</p> <p>Documented In-House Method LSD.ENV.15, Section 1, Method 7, based on BS EN 14732:2004, Clause 5.3</p> <p>Documented In-House Method LSD.ENV.15, Section 2, Method 2, based on BS EN 14732:2004, Clause 5.4.2.2</p> <p>Documented In-House Method LSD.ENV.15, Section 1, Method 8, based on BS EN 14732:2004, Clause 7</p>
<p>FEEDING STUFFS</p>	<p>Ash</p> <p>Ash</p>	<p>Documented In-House Method No F/2062 based on Method 12 of The Feeding Stuffs (Sampling and Analysis) Regulations 1982 using gravimetry</p> <p>Documented In-House Statutory Method No F/2071 using gravimetry</p>



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FEEDING STUFFS (cont'd)	<u>Physical/Performance Tests</u> (cont'd)	
	Crude fibre	Documented In-House Method No F/2049 based on Method 9 of The Feeding Stuffs (Sampling and Analysis) (Amendment) Regulations 1994 using digestion with acid/alkali and gravimetry
	Crude fibre	Documented In-House Statutory Method No F/2072 using gravimetry
	Fat/Oil	Documented In-House Method No F/2063 based on Method 3b of The Feeding Stuffs (Sampling and Analysis) (Amendment) Regulations 1985 using acid digestion followed by solvent extraction
	Crude oils and fats	Documented In-House Statutory Method No F/2073 using gravimetry
	Moisture	Documented In-House Method No F/2061 based on Method 2 of the Feeding Stuffs (Sampling and Analysis) Regulations 1982 using gravimetry
	Nitrogen	Documented In-House Method No F/2045 using digestion block and titrimetry
	Protein content of feeding stuffs	Documented In-House Method No F/7000.1, calculations based on nitrogen results
	Crude protein	Documented In-House Statutory Method No F/2070 using Kjeldahl digestion/titrimetry
	Cadmium Copper Lead Selenium Zinc	Documented In-House Method No F/2094A using microwave digestion and ICPMS



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FEEDING STUFFS (cont'd)	<u>Physical/Performance Tests</u> (cont'd) Calcium Copper Magnesium Manganese Phosphorus Calcium Copper Iron Magnesium Manganese Phosphorus Vitamin A Vitamin E	Documented In-House Method No F/2094A using microwave digestion and ICPOES Documented In-House Method No F/2094B using ashing, digestion and ICPOES LSD.FEA.01 Method 2085 and 2086 base on EC No.152/2009
FERTILISERS	<u>Physical/Performance Tests</u> Preparation of the sample for analysis Determination of total nitrogen - chromium powder reduction method Determination of different forms of nitrogen in the same sample - in the absence of cyanamide nitrogen: Total soluble nitrogen Ammoniacal nitrogen Ureic nitrogen Determination of ammoniacal nitrogen	Documented In-House Method LSD.ENV.06, Section 1, Method 1, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 2, Method 3 based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 2, Method 1, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 2, Method 2 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations"



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FERTILISERS (cont'd)	<u>Physical/Performance Tests</u> (cont'd) Extraction of phosphorus - by mineral acids Extraction of phosphorus - by neutral ammonium citrate Extraction of phosphorus - by water Determination of extracted phosphorus - gravimetric method Determination of total potassium by precipitation as potassium tetraphenyl borate Determination of water soluble potassium by precipitation as potassium tetraphenyl borate	Documented In-House Method LSD.ENV.06, Section 3, Method 1 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 3, Method 2, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 3, Method 3, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 3, Method 4, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 4, Method 2 based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations" Documented In-House Method LSD.ENV.06, Section 4, Method 1, based on SI 1996, No 1342 "The Fertilisers (Sampling and Analysis) Regulations"



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FOOD	MICROBIOLOGICAL EXAMINATION FOR THE PURPOSE OF ENFORCEMENT OF THE FOOD SAFETY ACT 1990	METHODOLOGY TO MEET THE REQUIREMENTS OF ENFORCEMENT OF THE FOOD SAFETY ACT 1990
FOOD		
FOODS - Food Categories specified in the EU Microbiological Criteria 2005	Detection of <i>Salmonella</i> spp	Documented In-House Method No MEX/011 based on ISO 6579:2002
	Detection of <i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Documented In-House Method No MEX/016 based on ISO 11290-1:1996 (Amendment No 1, 2004)
	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House Method No MEX/019 based on ISO 21528-2:2004
	Enumeration of <i>Escherichia coli</i>	Documented In-House Method No MEX/006 based on ISO 16649-2:2001
	Enumeration of <i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Documented In-House Method No MEX/012 based on ISO 11290-2:1998 (Amendment No 1, 2004)
	Enumeration of <i>Coagulase Positive Staphylococci</i>	Documented In-House Method No MEX/007 based on ISO 6888-1:1999 (Amendment No1, 2003)
	Enumeration of Total Viable Count of micro-organisms at 30°C	Documented In-House Method No MEX/005 using spiral plate based on BS 5763 Part 5:1994
SHELLFISH - Live	Enumeration of <i>Escherichia coli</i>	Documented In-House Method No MEX/015 using multiple tube technique based on ISO TS 16649-3
FOODS - General	Detection of <i>Thermotolerant Campylobacter</i>	Documented In-House Method No MEX/010 based on ISO 10272-1:2006



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FOODS - General (cont'd)	Detection of <i>Escherichia coli</i> O157	Documented In-House Method No MEX/014 based on ISO 16654:2001
	Detection of Salmonella spp	Documented In-House Method No MEX/011 based on ISO 6579:2002
FOODS - Ready to eat	Detection of <i>Listeria monocytogenes</i>	Documented In-House Method No MEX/016 based on ISO 11290-1:1997 (Amendment No 1, 2004)
	Enumeration of: <i>Bacillus cereus</i>	Documented In-House Method No MEX/009 using spiral plate based on ISO 7932:1998
	<i>Clostridium perfringens</i>	Documented In-House Method No MEX/008 based on ISO 7937:2004
	<i>Escherichia coli</i>	Documented In-House Method No MEX/006 based on ISO 16649-2:2001
	<i>Listeria monocytogenes</i>	Documented In-House Method No MEX/012 based on ISO 11290-2:1998 (Amendment No 1, 2004)
	<i>Coagulase Positive Staphylococci</i>	Documented In-House Method No MEX/007 based on ISO 6888-1:1999 (Amendment No 1, 2003)
	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House Method No MEX/019 based on ISO 21528-2:2004
	Total Viable Count of micro-organisms at 30 °C	Documented In-House Method No MEX/005 using spiral plate based on BS 5763 Part 5:1994
FOODS - Dairy ICE CREAM	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House Method No MEX/019 based on ISO 21528-2:2004



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PASTEURISED MILK and PASTEURISED LIQUID DAIRY PRODUCTS	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House Screening Method No MEX/019 based on ISO 21528-2:2004
	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House MEX/020 based on ISO 21528-1:2004 to meet the requirements of EC2073/2005
PASTEURISED MILK and PASTEURISED LIQUID DAIRY PRODUCTS	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House Screening Method No MEX/019 based on ISO 21528-2:2004
	Enumeration and Confirmation of Enterobacteriaceae	Documented In-House MEX/020 based on ISO 21528-1:2004 to meet the requirements of EC2073/2005
FOOD	<u>Chemical Tests</u>	
ALCOHOLIC DRINKS	Alcohol	Documented In-House Method No F/2090 using gas chromatography
BUTTER	Salt	APA VEMS No F/293 using titrimetry
	Water, Fat, SNF	APA VEMS No F/120 using gravimetry
CHEESE	Water	APA VEMS No F/294 using gravimetry
COCOA and CHOCOLATE PRODUCTS	Caffeine, Theobromine	Documented In-House Method No F/2038 using water extract and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 2
	Total fat	APA VEMS No F/262 using Soxhlet apparatus
COOKING AND SEASONING SAUCES	3-Monochloropropane-1,2-diol	Documented In-House Method LSD.INS.03, Section 2, Method 4, using GCMS



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CREAM	Fat	Documented In-House Method No F/2011 (BS 696:Part 2:1989) using Gerber tubes
	Phosphatase	Documented In-House Method No F/2012 using colorimetry
	Reactivated Phosphatase	Documented In-House Method No F/2036 using spectrophotometry
	Reactivated Phosphatase	Documented In-House Method No F/2013 using colorimetry
FAT	Butyric acid	Documented In-House Method No F/2026 using GC
	Preparation and analysis of Fatty Acid Methyl Esters	Documented In-House Method LSD.INS.03, Section 2, Method 2, using GC
FAT and FAT EXTRACTED FROM FOOD	Free fatty acids	APA VEMS No F/10 using titrimetry
	Peroxide value	APA VEMS No F/9 using titrimetry
FISH	Histamine	APA VEMS No F/124 using fluorescence spectrometry
	Species identification	Documented In-House Method No F/2014 using Electrophoresis
FISH AND FISH PRODUCTS	Chloride	Documented In-House Method No F/2091 using titrimetry
FISHERY PRODUCTS	Total volatile nitrogen	APA VEMS No F/0219 using distillation and titrimetry
FLESH FOODS	Total Volatile Nitrogen	APA VEMS No F/157 using distillation and titrimetry
FLOUR and FLOUR CONFECTIONERY	Propionic Acid	Documented In-House Method No F/2016 using spectrophotometry
FLOUR PRODUCTS	Crude Fibre	Documented In-House Method No F/2049 using digestion with acid/alkali and gravimetry



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS - Excluding those containing potato starch	Nitrate and Nitrite	Documented In-House Method No F/2048 using aqueous extraction and HPLC/UV detection via Documented In-House Method LSD.INS.04, Section 2, Method 9
FOODS - General	Ash	Documented In-House Method No F/2033 using gravimetry
	Benzoic and Sorbic Acids	Documented In-House Method No F/2023 using distillation and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 1
	Benzoic and Sorbic Acids	Documented In-House Method No F/2037 using water extract and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 1
	Chloride	APA VEMS No F/301 using titrimetry
	Elemental Analysis	Documented Generic In-House Method LSD.FEA.10 using appropriate preparation and digestion followed by Atomic Spectrometry
	Fat	Documented In-House Method No F/2040 by Werner-Schmidt acid hydrolysis
	Fat	Documented In-House Method No F/2041 by Weibull-Stoldt gravimetry
	Fat	Documented In-House Method No F/2092 using acid digestion and Soxcap solvent extraction
	Apparent meat content	Documented In-House Method No 7000.16 (by calculation)



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS - General (cont'd)	Moisture	Documented In-House Method No F/2034 using gravimetry
	Mono sodium glutamate	Documented In-House Method LSD.INS.04, Section 2, Method 14, using HPLC with uv detection
	Nitrogen	Documented In-House Method No F/2045 using digestion block and titrimetry
	Nitrogen	Documented In-House Method No F/2047 by Kjeldahl digestion and titrimetry
	pH of food	APA VEMS No F/282 using Potentiometry
	Sodium	APA VEMS No F/54 using flame photometry
	Sugars	Documented In-House Method No F/2042 using water extract and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 5
	Sulphur Dioxide	Documented In-House Method No F/2004 using distillation and Iodine titrimetry
	Sulphur Dioxide	Documented In-House Method No F/2021 using distillation and acid-base titrimetry
	Sulphur Dioxide	Documented In-House Method No F/2015 qualitative test using reduction of Iodine
	Total dietary fibre (Englyst)	Documented In-House Method No F/2056 using Englyst Fiberzym Kit
	Water activity	Documented In-House Method No F/2046 using water activity meter



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<p>FOOD (cont'd)</p> <p>FOODS - General (cont'd)</p> <p>FOODS SUCH AS CEREALS, CEREAL PRODUCTS, DRIED FRUIT AND VEGETABLES</p> <p>FRUIT AND VEGETABLES</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Sample types/analytes outwith the scope of any individual method of accreditation held</p> <p>Unknown contaminants/foreign bodies and other materials in or related to food capable of being classified or identified using microscopy</p> <p>Total dietary fibre (AOAC)</p> <p>Organophosphorus pesticide residues: Chlorpyrifos Chlorpyrifos-methyl Diazinon Ethion Etrimphos Fenitrothion Parathion Bromophos Bromophos-ethyl Iodofenphos Phorate Fenclorphos Malathion Carbophenothion Pirimiphos-methyl Triazophos Methacrifos Tolclophos-methyl</p>	<p>Documented Generic In-House Method LSD.FEA.11 using appropriate preparation followed by Gas Chromatography and/or HPLC and/or UV/VIS Spectrophotometry</p> <p>Documented Generic In-House Method LSD.FEA.12 using appropriate preparation followed by microscopy</p> <p>APA VEMS No F/0081 using enzymatic digestion and gravimetry</p> <p>Documented In-House Method LSD.INS.05, Section 2, Method 1, using mixed solvent extraction followed by gas chromatographic analysis with flame photometric detection</p>
<p>FRUIT JUICE AND FORTIFIED FRUIT DRINKS</p>	<p>Vitamin C</p>	<p>Documented In-House Method LSD.INS.04, Section 2, Method 7 using HPLC/UV detection</p>
<p>HERBS AND SPICES AND OTHER VEGETABLE MATERIALS</p>	<p>Microscopical examination and identification</p>	<p>APA VEMS No F/0224/2 using microscopy</p>



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
HONEY	Conductivity	Documented In-House Method No F/2089 using Conductivity Meter
	Hydroxymethylfurfural	Documented In-House Methods No F/2044 and LSD.INS.04, Section 2, Method 6 using water extract and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 6
	Moisture content	Documented In-House Method No F/2088 using Refractometry
ICE CREAM/Cream/Yoghurt and Milk	Fat	Documented In-House Method No F/2030 using Rose Gottlieb
MEAT PRODUCTS	Soya protein	APA VEMS No F/292 using immunoassay kit
MEAT and MEAT PRODUCTS	Ash	APA VEMS No F/0003 using gravimetry
	Cooked Meat Speciation	Documented In-House Method No F/2053 using enzyme linked immunoassay kit
	Fat	APA VEMS No F/0154 (BS 4401:Part 4:1970 BS 1741:Part 3:1987) using acid digestion, solvent extraction and gravimetry
	Fat	Documented In-House Method No F/2003 using solvent extraction and gravimetry
	L-hydroxyproline	APA VEMS No F/92 using UV spectroscopy
	Moisture	Documented In-House Method No F/2002 using gravimetry
	Moisture	Documented In-House Method No F/2024 using sand and gravimetry



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
MEAT and MEAT PRODUCTS (cont'd)	Nitrogen	APA VEMS No F/0001 (BS 4401:Part 2:1980) using acid digestion and titrimetry
	Starch (Presence of)	Documented In-House Method No F/2032 using colorimetry
MILK	Acidity	APA VEMS No F/0131 (BS 1741:Section 10:1989) using titrimetry
	Aflatoxin M ₁	Documented In-House Method LSD.INS.04, Section 2, Method 12 using HPLC with fluorescence detection
	Antibiotics	Documented In-House Method No F/2008 using inhibitory technique
	Fat	APA VEMS No F/0008 (BS 696:Part 2:1989) using Gerber tubes
	Freezing Point Depression	Documented In-House Method No F/2067 (based on BS EN ISO 5764:2002) using cryoscope
	Phosphatase	Documented In-House Method No F/2009 using colorimetry
	Phosphatase	Documented In-House Method No F/2035 using spectrophotometry
	Total solids	APA VEMS No F/0005 (BS 1741:Part 1:1987 BS 1741:Part 2:1990) using gravimetry
NUTS and NUT PRODUCTS	Aflatoxins B ₁ , B ₂ , G ₁ and G ₂	Documented In-House Method LSD.INS.04, Section 2, Method 8, using immuno-affinity column for clean up followed by HPLC/ Fluorescence detection and post column reaction



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
OIL SUPPLEMENTS	Omega 3 and gamma linolenic acids	Documented In-House Method LSD.INS.03, Section 2, Method 1 using gas chromatography of fatty acid methyl esters
POTABLE SPIRITS	Alcoholic strength	APA VEMS No F/0164 using obscuration with a sprengel pyknometer
	Density and Alcohol	Documented In-House Method No F/2005 using density meter
	Congeners	Documented In-House Method LSD.INS.03, Section 2, Method 3, using capillary GC
	Total solids	Documented In-House Method No F/2029 using gravimetry
	Sugars	Documented In-House Method LSD.INS.04, Section 2, Method 16, using ion chromatography with pulsed amperometric detection
SPIRIT DRINKS	Total, volatile and fixed acidity	Documented In-House Method F/2064 using titrimetry
PRESERVES, FRUIT JUICES, SOFT DRINKS, MINCEMEAT, FRUIT CURDS AND HONEY	Soluble solids	APA VEMS No F/0247/2 using refractometer
SOFT DRINKS	Caffeine, Saccharin, Aspartame, Acesulfame K, Benzoic Acid and Sorbic Acid	Documented In-House Method LSD.INS.04, Section 2, Method 3, using HPLC
SOFT DRINKS AND FOOD COLOURING SOLUTIONS	Water Soluble Synthetic Colours	Documented In-House Method LSD.INS.04, Section 2, Method 4 using HPLC/UV/VIS detection
TEA and COFFEE PRODUCTS	Caffeine	Documented In-House Method F/2065 using water extract and HPLC via Documented In-House Method LSD.INS.04, Section 2, Method 10



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD (cont'd)	<u>Chemical Tests (cont'd)</u>	
FOOD, Specified Foods	<u>Calculations relating to food analysis</u>	
	Protein content of food	Documented In-House Method No F/7000.1
	Butterfat in fat and food	Documented In-House Method No F/7000.2
	Salt in aqueous phase	Documented In-House Method No F/7000.3
	Corrected Alcoholic strength of spirits after allowance for dissolved solids	Documented In-House Method No F/7000.4
	Added water in milk	Documented In-House Method No F/7000.5
	Dry fat free cocoa solids in cocoa and chocolate products	Documented In-House Method No F/7000.6
	Higher alcohols in potable spirits	Documented In-House Method No F/7000.7
	Fat in dry matter	Documented In-House Method No F/7000.9
	The energy value of food	Documented In-House Method No F/7000.10
	Added water in cured meats	Documented In-House Method No F/7000.11
	Fibre in dry matter	Documented In-House Method No F/7000.12
	Milk solids not fat (MSNF) in butter	Documented In-House Method No F/7000.13
	Sodium chloride content of food	Documented In-House Method No F/7000.14
	Milk solids non-fat based on Vieth's ration (from protein or lactose content)	Documented In-House Method No F/7000.15



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FOOD (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOOD, Specified Foods (cont'd)	<u>Calculations relating to food analysis</u> (cont'd)	
	Cadmium Copper Lead Selenium Zinc	Documented In-House Method No F/2094A using microwave digestion and ICPMS
	<u>Health and Hygiene</u>	
FOOD, WATER, STREET DUST, VEGETATION, INTER-TIDAL SEDIMENTS and SOIL	Determination of gamma radioactivity (energy range > 55 keV and < 2000 keV)	Documented In-House Methods using intrinsic germanium detector
WATERS	Gross alpha activity Gross beta activity	Documented In-House Method LSD.RAD.2, Section 2 using gas proportional counter
	Tritium	Documented In-House Method LSD.RAD.3, Section 3, Method 1 using liquid scintillation counting
SPECIFIED CONSUMER PRODUCTS	Chemical constituents, contaminants and preservatives	Documented In-House Method LSD.ENV.09 using Documented preparation procedures followed by the techniques: Gas Chromatography (ECD, FID, NPD detection), HPLC, UV/VIS Spectrophotometry
TOYS	<u>Safety Tests</u>	
	Specification for migration of the following elements:-	
	Antimony, Arsenic, Barium, Cadmium, Chromium, Lead and Selenium	Documented In-House Methods LSD.ENV.05, Section 1, Method 1 (sample preparation) based on BS EN 71:3:1995 and LSD.INS.02, Section 9, using ICP-OES
	Physical examination and description	Documented In-House Method LDS.ENV.08, Section 1, Method 1, based on EN 71-1:2005



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TOYS (cont'd)	<u>Safety Tests</u> (cont'd)	
	General examination of materials	Documented In-House Method LDS.ENV.08, Section 1, Method 2, based on EN 71-1:2005
	Assessment of accessibility of glass components	Documented In-House Method LDS.ENV.08, Section 1, Method 2, Appendix 1, based on EN 71-1:2005
	Examination of toy bags	Documented In-House Method LDS.ENV.08, Section 1, Method 3, based on EN 71-1:2005
	Examination of edges	Documented In-House Method LDS.ENV.08, Section 1, Method 4, based on EN 71-1:2005
	Assessment of accessibility of metal and glass edges	Documented In-House Method LDS.ENV.08, Section 1, Method 4, Appendix 1, based on EN 71-1:2005
	Examination of points and wires	Documented In-House Method LDS.ENV.08, Section 1, Method 5, based on EN 71-1:2005
	Assessment of accessibility of points	Documented In-House Method LDS.ENV.08, Section 1, Method 5, Appendix 1, based on EN 71-1:2005
	Examination of protruding parts	Documented In-House Method LDS.ENV.08, Section 1, Method 6, based on EN 71-1:2005
	Examination of parts moving against each other - driving mechanisms	Documented In-House Method LDS.ENV.08, Section 1, Method 8, based on EN 71-1:2005
	Assessment of accessibility of driving mechanisms	Documented In-House Method LDS.ENV.08, Section 1, Method 8, Appendix 1, based on EN 71-1:2005



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TOYS (cont'd)	<u>Safety Tests (cont'd)</u> Examination of parts moving against each other - hinges Examination of parts moving against each other - springs Assessment of accessibility of springs Mouth actuated toys (excluding EN 71-1, Section 4.11(c)) Examination of balloons Examination of cords of toy kites and other flying toys Examination of enclosures: Toys a child can enter Examination of enclosures: Masks and Helmets Examination of aquatic toys Examination of toys containing a heat source Examination of projectile toys	Documented In-House Method LDS.ENV.08, Section 1, Method 9, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 10, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 10, Appendix 1, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 11, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 12, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 13, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 14, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 15, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 16, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 1, Method 17, based on EN 71-1:2005 Documented In-House Method LSD.ENV.08, Section 1, Method 18, based on EN 71-1:2005



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
TOYS (cont'd)	<u>Safety Tests (cont'd)</u> <u>Specific Requirements for Children Under 36 Months</u> Examination of the size of small toys and removable components Examination of general hazards Examination of filling materials Examination of adhesion of plastic sheeting Examination of cords on toys Examination of liquid filled toys Examination of glass and porcelain Examination of the shape and size of certain toys Examination of toys comprising monofilament fibres Examination of small balls Examination of play figures	Documented In-House Method LDS.ENV.08, Section 2, Method 1, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 2, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 3, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 4, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 5, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 6, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 7, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 8, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 9, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 10, based on EN 71-1:2005 Documented In-House Method LDS.ENV.08, Section 2, Method 11, based on EN 71-1:2005



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TOYS (cont'd)	<u>Safety Tests</u> (cont'd)	
	<u>Specific Requirements for Children Under 36 Months</u> (cont'd)	
	Examination of hemispheric shaped toys	Documented In-House Method LDS.ENV.08, Section 2, Method 12, based on EN 71-1:2005
	Examination of suction cups	Documented In-House Method LDS.ENV.08, Section 2, Method 13, based on EN 71-1:2005
	<u>Packaging and Labelling Requirements</u>	
	Examination of packaging	Documented In-House Method LDS.ENV.08, Section 3, Method 1, based on EN 71-1:2005
TEXTILES and TEXTILE PRODUCTS	Labelling assessment	Documented In-House Method LDS.ENV.08, Section 3, Method 2, based on EN 71-1:2005
	<u>Chemical Tests</u>	
	Preparation of samples for chemical testing	Documented In-House Method LSD.ENV.03, Section 1 based on BS 4658:1978
	Qualitative analysis of fibre mixtures	Documented In-House Method LSD.ENV.03, Section 2 using physical/chemical tests, microscopy and FTIR
	Quantitative analysis of fibre mixtures	Documented In-House Method based on BS 4407:1988(1995) (excluding Methods 5, 6, 9, 10, 13 and 17) LSD.ENV.03, Section 3 using gravimetry
	<u>Safety Tests</u>	
Testing the mechanical safety of children's clothing	Documented In-House Method LSD.ENV.03, Section 4, Method 1, based on BS 7907:1997	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS for types as indicated for each test	<u>Chemical Tests</u>	
Surface, Ground, Waste and Leachate Waters	Ammoniacal Nitrogen	Documented In-House Method LSD.WAT.01, Method 26 using colorimetry in association with Aquakem 300 analyser
Potable, Rainwater, Soil Extracts and Air	Anions	Documented In-House Method LSD.INS.04, Section 1, Method 9, using ion chromatography with conductivity detection
Potable/Surface, Waste, Leachates, Pool Waters	Conductivity	Documented In-House Method LSD.WAT.02, Method 3 using electrical resistance measurement
Surface, Ground, Waste and Leachate Waters	Nitrite	Documented In-House Method LSD.WAT.01, Method 28 using colorimetry in association with Aquakem 300 analyser
Surface, Ground, Waste and Leachate Waters	pH	Documented In-House Method LSD.WAT.02, Method 16, using potentiometry
Potable/Surface, Waste, Leachates	Total Organic Carbon (NPOC)	Documented In-House Method LSD.WAT.02, Method 8 using Dohrmann DC-190 analyser
Surface, Ground, Waste and Leachate Waters	Total Oxidised Nitrogen and Nitrate	Documented In-House Method LSD.WAT.01, Method 27 using colorimetry in association with Aquakem 300 analyser
Surface, Ground, Waste and Leachate Waters	Chemical Oxygen Demand (COD)	Documented In-House Method LSD.WAT.02, Method 20 using Colorimetry
Surface, Ground, Waste, Leachate, Potable and Pool Waters	Sulphate	Documented In-House Method LSD.WAT.01, Method 29 using colorimetry in association with Aquakem 300 analyser
Raw and Potable	Triazine Herbicides	Documented In-House Method LSD.INS.05, Section 1, Method 1 using solid phase extraction/HPLC



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WATERS (cont'd) for types as indicated for each test	<u>Chemical Tests</u> (cont'd)	
Potable	Alkalinity	Documented In-House Method LSD.WAT.02, Method 4 using titrimetry
Potable, Surface and Ground Waters	Ammonium	Documented In-House Method LSD.WAT.01, Method 17 using colorimetry in association with Aquakem 300 analyser
Potable, Surface and Ground Waters	Chloride	Documented In-House Method LSD.WAT.01, Method 20 using colorimetry in association with Aquakem 300 analyser
Potable	Colour	Documented In-House Method LSD.WAT.02, Method 1 using spectrophotometry
Potable	Cyanide (total)	Documented In-House Method?/ using
Potable	Fluoride	Documented In-House Method LSD.WAT.01, Method 24 using colorimetry in association with Aquakem 300 analyser
Potable	Nitrate	Documented In-House Method LSD.WAT.01, Method 18 using colorimetry in association with Aquakem 300 analyser
Potable, Surface and Ground Waters	Nitrite	Documented In-House Method LSD.WAT.01, Method 19 using colorimetry in association with Aquakem 300 analyser
Potable	PAH	Documented In-House Method LSD.INS.04, Section 1, Method 4 using HPLC/fluorescence
Potable	pH	Documented In-House Method LSD.WAT.02, Method 7 using potentiometry



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WATERS (cont'd) for types as indicated for each test	<u>Chemical Tests</u> (cont'd)	
Potable	Silicate	Documented In-House Method LSD.WAT.01, Method 22 using colorimetry in association with Aquakem 300 analyser
Potable, Surface, Ground, Waste and Leachate Waters	Soluble Reactive Phosphate	Documented In-House Method LSD.WAT.01, Method 23 using colorimetry in association with Aquakem 300 analyser
Potable	Trihalomethanes and chlorinated solvents	Documented In-House Method LSD.INS.05, Section 1, Method 2 using solvent extraction/gas chromatography
Potable	Turbidity	Documented In-House Method LSD.WAT.02, Method 2 using nephelometry
Pool waters	Alkalinity	Documented In-House Method LSD.WAT.02, Method 10 using titrimetry
Pool waters	Bromine	Documented In-House Method LSD.WAT.02, Method 11 using titrimetry
Pool waters	Calcium (hardness)	Documented In-House Method LSD.WAT.01, Method 21 using colorimetry in association with Aquakem 300 analyser
Pool, Surface, Ground, Waste and Leachate Waters	Chloride	Documented In-House Method LSD.WAT.01, Method 25 using colorimetry in association with Aquakem 300 analyser
Pool waters	Dimethyl hydantoin	Documented In-House Method LSD.INS.04, Section 1, Method 1 using HPLC with UV detection
Pool waters	pH	Documented In-House Method LSD.WAT.02, Method 7 using potentiometry



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WATERS (cont'd) for types as indicated for each test	<u>Chemical Tests</u> (cont'd)	
Pool waters	Total and free residual chlorine	Documented In-House Method LSD.WAT.02, Method 12 using titrimetry
Pool waters	Total dissolved solids	Documented In-House Method LSD.WAT.02, Method 13 using gravimetry
WATERS	<u>Microbiological Tests</u>	
- potable waters	Detection and Enumeration of:	
- swimming pool waters	<i>Pseudomonas aeruginosa</i>	Documented In-House Method No MEX/55 using membrane filtration followed by selective isolation and confirmation based on the Microbiology of Drinking Water (2002):Part 8
WATERS	Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), and Examination for the purpose of enforcement of The Water Supply (Water Quality) (Scotland) Regulations 2001 (SI 2001/207)	Methodology meeting the requirements of The Drinking Water Testing Specification
Private water supplies	<u>Microbiological Tests</u>	
Potable waters	Detection and enumeration of <i>enterococci</i>	Documented In-House Method MEX/57 based on BS EN ISO 7899-2:2000 and the Microbiology of Drinking Water 2006:Part 5
	Detection and enumeration of <i>Clostridium perfringens</i>	Documented In-House Method MEX/58 based on The Microbiology of Drinking Water 2009:Part 6



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WATERS (cont'd) Private water supplies Potable waters (cont'd)	<u>Microbiological Tests</u> (cont'd)	
	Detection and Enumeration of:	
	Total Coliform and <i>E coli</i> count	Documented In-House Method No MEX/54 using membrane filtration based on the Microbiology of Drinking Water (2009):Part 4
	Total Coliform and <i>E coli</i> count	Documented In-House Method MEX/56 using Colilert based on the Microbiology of Drinking Water (2009):Part 4, Section D
	TVC at 22 °C	Documented In-House Method No MEX/52 using pour plate based on the Microbiology of Drinking Water (2002):Part 7
	TVC at 37 °C	Documented In-House Method No MEX/51 using pour plate based on the Microbiology of Drinking Water (2002):Part 7
	<u>Chemical Tests</u>	
	Conductivity	Documented In-House Method LSD.WAT.02, Method 3 using electrical resistance measurement
	Non-Purgeable Organic Carbon (NPOC)	Documented In-House Method LSD.WAT.02, Method 8 using Dohrmann DC-190 analyser
	Sulphate	Documented In-House Method LSD.WAT.01, Method 29 using colorimetry in association with Aquakem 300 analyser
Ammonium	Documented In-House Method LSD.WAT.01, Method 17 using colorimetry in association with Aquakem 300 analyser	
Chloride	Documented In-House Method LSD.WAT.01, Method 20 using colorimetry in association with Aquakem 300 analyser	



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<p>WATERS (cont'd)</p> <p>Private water supplies Potable waters (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Colour</p> <p>Cyanide (total)</p> <p>Fluoride</p> <p>Metals: Aluminium Antimony Arsenic Barium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Total phosphorus Potassium Selenium Silver Sodium Strontium Vanadium Zinc Total Hardness (calculation using Calcium and Magnesium)</p> <p>Nitrate</p>	<p>Documented In-House Method LSD.WAT.02, Method 1 using spectrophotometry</p> <p>Documented In-House Method 30 using distillation followed by colorimetry using discrete analyser</p> <p>Documented In-House Method LSD.WAT.01, Method 24 using colorimetry in association with Aquakem 300 analyser</p> <p>Documented In-House Methods LSD.WAT.02, Method 35, and LSD.INS.02, Section 10 using ICP-MS</p> <p>Documented In-House Method LSD.WAT.01, Method 18 using colorimetry in association with Aquakem 300 analyser</p>



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<p>WATERS (cont'd)</p> <p>Private water supplies Potable waters (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p>Nitrite</p> <p>PAH Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(ghi)perylene Indeno(1,2,3-cd)pyrene</p> <p>pH</p> <p>Trihalomethanes and chlorinated solvents Bromodichloromethane Bromoform Chloroform Chlorodibromomethane Tetrachloroethene Tetrachloromethane Trichloroethene</p> <p>Turbidity</p> <p><u>Organoleptic Tests</u></p> <p>Qualitative Taste and Odour</p> <p>Quantitative Taste and Odour</p>	<p>Documented In-House Method LSD.WAT.01, Method 19 using colorimetry in association with Aquakem 300 analyser</p> <p>Documented In-House Method LSD.INS.04, Section 1, Method 4 using HPLC/fluorescence</p> <p>Documented In-House Method LSD.WAT.02, Method 7 using potentiometry</p> <p>Documented In-House Method LSD.INS.05, Section 1, Method 2 using solvent extraction/gas chromatography</p> <p>Documented In-House Method LSD.WAT.02, Method 2 using nephelometry</p> <p>Documented In-House Method MEX/60 based on The Determination of Taste and Odour in Potable Waters 1994:HMSO</p> <p>Documented In-House Method MEX/61, using assessed panel based on The Determination of Taste and Odour in Potable Waters 1994:HMSO</p>
	END	