


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>1278</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Glasgow City Council, trading as Glasgow Scientific Services</p> <p>Issue No: 060 Issue date: 28 April 2023</p>	
	<p>Glasgow Scientific Services 64 Everard Drive Glasgow G21 1XG</p>	<p>Contact: T Macbeth Tel: +44 (0)1412 760658 Fax: +44 (0)1412 760669 E-Mail: tracy.macbeth@glasgow.gov.uk</p>
<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
<p>AIRBORNE POLLUTANTS adsorbed on diffusion tubes</p> <p>ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos</p>	<p><u>Health and Hygiene</u></p> <p>Nitrogen dioxide adsorbed as nitrite on triethanolamine treated diffusion tubes</p> <p>Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite</p>	<p>Documented In-house Methods:</p> <p>LSD.ENV.40 using colorimetry</p> <p>Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021</p> <p>Documented In-House Method LSD.ENV.30, Method 1, using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248</p>
<p>CONSUMER PRODUCTS</p> <p>13A Rewirable and Non-rewireable Plugs</p>	<p><u>Electrical tests products</u></p> <p>Electrical safety</p>	<p>Documented In-house Methods:</p> <p>LSD.CAL.CON2 based on BS 1363-1:2016+A1:2018 (clauses 7 and 12 only excluding chamfer dimensions)</p>



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FEEDING STUFFS	<u>Chemical Tests</u> Ash Crude fibre Crude Oils and Fats Moisture Nitrogen Protein content of feeding stuffs	Documented In-house Methods: 1) No. F2062 based on Method M of EC 152/2009, using gravimetry 2) No. F2071 using gravimetry, Method M of Commission Regulation EC 152/2009 implemented by The Feed (Sampling and Analysis and Undesirable Substances) (Scotland) Regulations 2010 (Statutory Method) 1) No. F2049 based on Method I of EC 152/2009 using digestion with acid/alkali and gravimetry 2) No. F2072 using gravimetry, Method I of Commission Regulation EC 152/2009 implemented by The Feed (Sampling and Analysis and Undesirable Substances) (Scotland) Regulations 2010 (Statutory Method) No. F2073 using gravimetry, Method H of Commission Regulation EC 152/2009 implemented by The Feed (Sampling and Analysis and Undesirable Substances) (Scotland) Regulations 2010 (Statutory Method) No. F2061 based on Method A of EC 152/2009, using gravimetry No. F2045 using digestion block and titrimetry No. F7000.1, calculations based on nitrogen results



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FEEDING STUFFS (cont'd)	<u>Chemical Tests</u> (cont'd) Crude protein Metals: Cadmium, Copper Lead, Selenium Zinc Metals: Calcium, Copper Iron, Magnesium Manganese, Phosphorus Vitamin A Vitamin E	Documented In-house Methods (cont'd): Method No. F2070, based on Method C of Commission Regulation EC 152/2009 implemented by The Feed (Sampling and Analysis and Undesirable Substances) (Scotland) Regulations 2010 (Statutory Method) No. F2094A using microwave digestion and ICP/MS No. F2094A using microwave digestion or ashing and ICP-OES LSD.FEA.01 Method 2096 based on EC No.152/2009 HPLC/UV
FERTILISERS	<u>Chemical Tests</u> Total nitrogen in the absence of nitrates Total nitrogen by iron reduction in the presence of nitrates Ammoniacal nitrogen by cold distillation in the presence of ureic nitrogen Ammoniacal nitrogen by steam distillation (i.e. N in the form of ammonium salts) Total nitrogen by chromium reduction	Documented In-house Methods: LSD.FERT.01 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.02 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.03 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.04 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.05 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations"



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FERTILISERS (cont'd)	<u>Chemical Tests</u> (cont'd) Ureic nitrogen by Xanthidrol method Nitric nitrogen by difference Ureic nitrogen by difference Phosphorus pentoxide soluble in mineral acid Phosphorus pentoxide soluble in neutral ammonium citrate Phosphorus pentoxide soluble in water Water Soluble Potassium Oxide Total soluble potassium by precipitation as potassium tetraphenyl borate	Documented In-house Methods (cont'd): LSD.FERT.11 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.12 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.13 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.06 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.07 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.08 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.09 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations" LSD.FERT.10 based on SI 1996, No. 1342 "The Fertilisers (Sampling and Analysis) Regulations"
FOODS (as specified) ALCOHOLIC DRINKS Wine Spirit Drinks	<u>Chemical Tests</u> Alcohol Histamine Density and Alcohol	Documented In-house Methods: F2090 using gas chromatography F2102 using HPLC with Fluorescence Detection F2005 using density meter



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FOODS (as specified) (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods (cont'd):
Spirit Drinks	Congeners: Acetaldehyde, Ethyl acetate Iso-amyl alcohols (sum of 2 methyl butan-1-ol & 3 methyl butan-1-ol) Iso butyl alcohol (3, methyl propan-1-ol), Methanol, 2 methyl butan-1-ol 3 methyl butan-1-ol, Propan-1-ol	F2107 using GC
	Total solids	F2029 using gravimetry
	Sugars	F2108 using ion chromatography
	Total, volatile and fixed acidity	F2064 using titrimetry
CEREALS, CEREAL PRODUCTS, DRIED FRUIT, VEGETABLES	Total dietary fibre (AOAC)	F0081 using enzymatic digestion and gravimetry
CEREALS, CEREAL PRODUCTS	Mycotoxins: aflatoxin B ₁ , aflatoxin B ₂ aflatoxin G ₁ , aflatoxin G ₂ deoxynivalenol, fumonisin B ₁ fumonisin B ₂ HT-2, T-2 ochratoxin A zearalenone	F2100 using Stable Isotope Dilution-LC-MS/MS
COCOA and CHOCOLATE PRODUCTS	Caffeine, Theobromine	F2038 using water extract and HPLC
	Total fat	F262 using Soxhlet apparatus
DAIRY PRODUCTS	Fat	F2030 using Rose Gottlieb
Butter	Salt	F293 using titrimetry
	Water, Fat, Solids Non Fat (SNF)	F120 using gravimetry
Cheese	Water	F294 using gravimetry
	Histamine	F2102 using HPLC with Fluorescence Detection



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DAIRY PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods (cont'd):
Cream	Fat	F2011 (BS 696:Part 2:1989) using Gerber tubes
	Phosphatase	F2012 using colorimetry
Milk	Reactivated Phosphatase	1) F2036 using spectrophotometry (reference method) 2) F2013 using colorimetry
	Acidity	F0131 (BS 1741:10-1:1989) using titrimetry
	Antibiotics	F2008 using inhibitory technique
	Fat	F0008 (BS 696:Part 2:1989) using Gerber tubes
	Freezing Point Depression	F2067 (based on BS EN ISO 5764:2002) using cryoscope
	Phosphatase	1) F2009 using colorimetry 2) F2035 using spectrophotometry
	Total solids	F0005 (BS 1741:Part 1:1987 BS 1741:Part 2:1990) using gravimetry
FAT	Butyric acid	F2026 using GC
	Preparation and analysis of Fatty Acid Methyl Esters: Saturates, monounstaurates, polyunstaurates, Trans, Omega 3 and Omega 6	F2106 using GC
FAT and FAT EXTRACTED FROM FOOD	Free fatty acids	F10 using titrimetry
	Peroxide value	F9 using titrimetry
FISH	Histamine	F2102 using HPLC with Fluorescence Detection



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FOODS – General	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods (cont'd):	
FISH	Species identification	F2098 using PCR-RFLP analysis using the Agilent 2100 Bioanalyser	
FISH AND FISH PRODUCTS	Chloride	F2091 using titrimetry	
FISHERY PRODUCTS	Total Volatile Basic Nitrogen	F0219 using distillation and titrimetry	
FLESH FOODS	Total Volatile Nitrogen	F157 using distillation and titrimetry	
FLOUR and FLOUR CONFECTIONERY	Propionic Acid	F2016 using gas chromatography with flame ionisation detection	
FLOUR PRODUCTS	Crude Fibre	F2049 using digestion with acid/alkali and gravimetry	
FOODS – Excluding those containing potato starch	Nitrate and Nitrite	F2048 using aqueous extraction and HPLC/UV detection	
	Acrylamide	F2117 using LC-MS/MS	
	Ash	F2033 using gravimetry	
	Benzoic and Sorbic Acids	1) F2023 using distillation and HPLC 2) F2037 using water extract and HPLC	
	Fat		1) F2040 by Werner-Schmidt acid hydrolysis 2) F2041 by Weibull-Stoldt gravimetry 3) F2092 using acid digestion and Soxcap solvent extraction
		Metals: Cadmium, Copper Lead, Selenium Zinc	No. F2094A using microwave digestion and ICP/MS



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FOODS – General (cont'd)	<u>Chemical Tests</u> (cont'd) Metals: Calcium, Copper Iron, Magnesium Manganese, Phosphorus Moisture Mono sodium glutamate Nitrogen pH Sodium Sugars – total, fructose, glucose, sucrose, lactose, maltose and maltotriose Sulphur Dioxide Water activity	Documented In-house Methods (cont'd): No. F2094A using microwave digestion or ashing and ICP-OES F2034 using gravimetry F2103, using HPLC with uv detection 1) F2045 using digestion block and titrimetry 2) F2047 by Kjeldahl digestion and titrimetry F282 using Potentiometry F54 using flame photometry F2042 using water extract and HPLC 1) F2004 using distillation and Iodine titrimetry 2) F2021 using distillation and acid-base titrimetry 3) F2015 qualitative test using reduction of iodine F2046 using water activity meter



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FOODS – General (cont'd)	<u>Chemical Tests</u> (cont'd) Sample types/analytes out with the scope of any individual method of accreditation held Unknown contaminants/foreign bodies and other materials in or related to food capable of being classified or identified using microscopy	Documented In-house Methods (cont'd): Documented in-house method Management, Principles and Procedures for Flexible Scopes of Analysis LSD.QS.10 using existing extraction and measurement principles: GC, HPLC, ICP and UV /visible spectrometry, commercial allergen ELISA kits, and commercial meat species PCR kits developed under generic in-house flexible scope protocol procedure LSD.FEA.12 using appropriate preparation followed by microscopy
FRUIT and VEGETABLES Pesticide residues	See Appendix 1 at the end of this schedule for list of pesticides covered	F2101 using QuEChERS extraction, followed by LC-MS/MS
FRUIT JUICE, FORTIFIED FRUIT DRINKS	Vitamin C	F2109 using HPLC/UV detection
HERBS and SPICES AND OTHER VEGETABLE MATERIALS	Microscopical examination and identification	F0224/2 using microscopy
HONEY	Conductivity	F2089 using Conductivity Meter
	Hydroxymethylfurfural	F2044 using water extract and HPLC
	Moisture content	F2088 using Refractometry
MEAT and MEAT PRODUCTS	Ash	F0003 using gravimetry
MEAT and MEAT PRODUCTS	Fat	1) F0154 (BS 4401:Part 4:1970 BS 1741:Part 3:1987) using acid digestion, solvent extraction and gravimetry 2) F2003 using solvent extraction and gravimetry



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FOODS – General (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods (cont'd):
MEAT PRODUCTS: Raw and cooked (excluding cured and canned products)	Meat Species: Quantification and detection of Beef, Chicken, Horse and Pork DNA	F2117 using extraction by r-Biopharm Surefood PREP kit and Real Time qPCR using Surefood Animal Quant test kit using Bio-Rad CFX 96 thermal cycler
Cooked meat	Meat speciation: Qualitative detection of Pork, poultry, beef, lamb	F2053 using enzyme linked immunoassay kit Elisa-Kit Cooked Species Identification Kit
	L-hydroxyproline	F92 using UV spectroscopy
	Moisture	1) F2002 using gravimetry 2) F2024 using sand and gravimetry
	Nitrogen	F0001 (BS 4401:Part 2:1980) using acid digestion and titrimetry
	Starch (presence of)	F2032 using colorimetry
PRESERVES, FRUIT JUICES, SOFT DRINKS, MINCEMEAT, FRUIT CURDS AND HONEY	Soluble solids	F0247/2 using refractometer
SOFT DRINKS	Caffeine, Saccharin, Aspartame, Acesulfame K, Benzoic Acid and Sorbic Acid	F2104 using HPLC/UV
SOFT DRINKS AND FOOD COLOURING SOLUTIONS	Water Soluble Synthetic Colours	F2110 using HPLC/UV/VIS detection
SMOKED FISH	Sum of PAH4: benz(a)anthracene chrysene benz(b+j)fluoranthene benz(a)pyrene	F2119 using GC-MS/MS



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FOODS – General (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods (cont'd):
SOY SAUCE	3-Monochloropropane-1,2-diol	F2112 using GC-MS/MS
TEA and COFFEE PRODUCTS	Caffeine	F2065 using water extract and HPLC /UV
FOOD, Specified Foods	<u>Calculations relating to food analysis</u>	
	Protein content of food	F7000.1
	Butterfat in fat and food	F7000.2
	Salt in aqueous phase	F7000.3
	Corrected Alcoholic strength of spirits after allowance for dissolved solids	F7000.4
	Added water in milk	F7000.5
	Dry fat free cocoa solids in cocoa and chocolate products	F7000.6
	Higher alcohols in potable spirits	F7000.7
	Fat in dry matter	F7000.9
	The energy value of food	F7000.10
	Added water in cured meats	F7000.11
	Fibre in dry matter	F7000.12
	Milk solids not fat (MSNF) in butter	F7000.13
	Sodium chloride content of food	F7000.14
	Milk solids non-fat based on Vieth's ratio (from protein or lactose content)	F7000.15
	Apparent meat content	F7000.16



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<p>FOOD (Product type as applicable to EC 2073/2005 Microbiological Criteria of Foodstuffs as amended)</p> <p>(Sprouted seeds only)</p>	<p><u>Microbiological Tests</u></p> <p>Detection of and confirmation:</p> <p><i>Salmonella</i> spp</p> <p><i>Listeria</i> spp including <i>Listeria monocytogenes</i></p> <p>Thermotolerant <i>Campylobacter</i></p> <p><i>Escherichia coli</i> O157</p> <p>Shiga toxin producing <i>E. coli</i> (STEC) DNA</p> <p>Enumeration and confirmation where applicable:</p> <p>Aerobic Colony Count at 30°C</p> <p>Enterobacteriaceae</p> <p>β-glucuronidase positive <i>Escherichia coli</i></p> <p><i>Listeria</i> spp including <i>Listeria monocytogenes</i></p> <p>Coagulase positive Staphylococci</p>	<p>Documented In-house Methods:</p> <p>ME/011 based on BS EN ISO 6579-1:2017+A1:2020 confirmation using Biomerieux API and serology</p> <p>ME/016 based on BS EN ISO 11290-1:2017</p> <p>ME/010 based on BS EN ISO 10272-1:2017</p> <p>ME/014 based on BS EN ISO 16654:2001+A1:2017</p> <p>Method 020 based on CEN ISO/TS 13136:2012 by Multiplex Real-Time PCR using Biotecon Foodproof STEC screening kit and BioRad CFX 96 analyser</p> <p>ME/005 using spiral plate based on BS EN ISO 4833-2:2013 Annex A</p> <p>ME/019 based on BS EN ISO 21528-2:2017</p> <p>ME/006 based on BS ISO 16649-2:2001</p> <p>ME/012 based on BS EN ISO 11290-2:2017</p> <p>ME/007 based on BS EN ISO 6888-1:1999+A2: 2018 confirmation using Microgen staph and Dnase plate or tube coagulase</p>



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FOODS and FOOD PRODUCTS	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Detection:</p> <p>Shiga toxin producing <i>E. coli</i> (STEC) DNA</p> <p>Enumeration and confirmation where applicable:</p> <p><i>Bacillus cereus</i> (presumptive)</p> <p><i>Clostridium perfringens</i></p> <p>Enterobacteriaceae</p> <p>β-glucuronidase positive <i>Escherichia coli</i></p> <p><i>Listeria monocytogenes</i></p> <p>Coagulase positive Staphylococci</p> <p>Aerobic Colony Count at 30°C</p>	<p>Documented In-house Methods: (cont'd)</p> <p>Method 020 based on CEN ISO/TS 13136:2012 by Multiplex Real-Time PCR using Bioteccon Foodproof STEC screening kit and BioRad CFX 96 analyser</p> <p>ME/009 using spiral plate based on BS EN ISO 7932:2004+A1:2020</p> <p>ME/008 based on BS EN ISO 7937:2004</p> <p>ME/019 based on BS EN ISO 21528-2:2017</p> <p>ME/006 based on BS ISO 16649-2:2001</p> <p>ME/012 based on BS EN ISO 11290-2:2017</p> <p>ME/007 based on BS EN ISO 6888-1:1999+A2: 2018 confirmation using Microgen staph and Dnase plate or tube coagulase</p> <p>ME/005 using spiral plate based on BS EN ISO 4833-2:2013 Annex A</p>



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SHELLFISH – Live	<u>Chemical Tests</u>	Documented in house methods
Mussels	Domoic acid (amnesic shellfish poisoning toxin, ASP): Quantitative method	F2113 using HPLC-UV based on EURL Harmonised SOP, v1, 2008
Mussels	Lipophilic toxins (AZA 1, AZA 2, AZA 3, DTX 1, DTX 2, hYTX, OH YTX, OH hYTX, Okadaic acid, PTX 1, PTX 2, YTX): Quantitative method	F2114 using LC-MS/MS based on EURL Harmonised SOP, v5 2015
Mussels	Paralytic shellfish poisoning toxin (PSP; STX, dcSTX, NEO, dcNEO, GTX 1,4, GTX 2,3, GTX 5, GTX 6, dc GTX 2,3, C1,2): Semi-quantitative screening	F2115 using HPLC-FLD, based on AOAC Official method 2005.06
Mussels	Paralytic shellfish poisoning toxin (PSP; STX, dcSTX, NEO, dcNEO, GTX 1,4, GTX 2,3, GTX 5, GTX 6, dc GTX 2,3, C1,2): Quantitative method	F2116 using HPLC-FLD, based on AOAC Official method 2005.06
	<u>Microbiological Tests</u>	
	<i>Escherichia coli</i>	ME/015 using multiple tube technique based on BS EN ISO 16649-3:2015
TOYS AND TOY PACKAGING	<u>Mechanical and Physical Tests</u>	Documented In-House Methods based on EN 71-1:2014+A1:2018
	Physical examination and description & General examination of materials	BS EN 71-1 2014+A1:2018 4.1 & 4.2 Material & Assembly
	Assessment of sheeting	BS EN 71-1 2014+A1:2018 4.3 Examination of Sheeting
	Toy bags	BS EN 71-1 2014+A1:2018 4.4 Examination of Toy Bags
	Assessment of glass components	BS EN 71-1 2014+A1:2018 4.5 Examination of glass components



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TOYS AND TOY PACKAGING (cont'd)	<u>Mechanical and Physical Tests</u> (cont'd)	Documented In-House Methods based on EN 71-1:2014+A1:2018
	Assessment of expanding material	BS EN 71-1 2014+A1:2018 4.5 Examination of glass components
	Edges	BS EN 71-1 2014+A1:2018 4.7 Examination of Edges
	Points and wires	BS EN 71-1 2014+A1:2018 4.8 Examination of Points and Wires
	Protruding parts	BS EN 71-1 2014+A1:2018 4.9 Examination of Protruding Parts
	Driving mechanisms	BS EN 71-1 2014+A1:2018 4.10.2 Examination of Parts Moving Against Each Other – Driving Mechanisms
	Hinges	BS EN 71-1 2014+A1:2018 4.10.3 Examination of Parts Moving Against Each Other – Hinges
	Springs	BS EN 71-1 2014+A1:2018 4.10.4 Examination of Parts Moving Against Each Other – Springs
	Mouth actuated toys	BS EN 71-1 2014+A1:2018 4.11 A, B, D Mouth Actuated Toys and Other Toys Intended to be Put in Mouth
	Balloons	BS EN 71-1 2014+A1:2018 4.11 Examination of Balloons
	Cords of toy kites and other flying toys	BS EN 71-1 2014+A1:2018 4.13 Examination of Cords of Toy Kites & Other Flying Toys
Enclosures: Masks and Helmets	BS EN 71-1 2014+A1:2018 4.14.2 Examination of Enclosures - Masks and Helmets	
Aquatic toys	BS EN 71-1 2014+A1:2018 4.18 Examination of Aquatic & All Inflatable Toys	



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TOYS AND TOY PACKAGING (cont'd)	<u>Specific Requirements for Children Under 36 Months</u>	Documented In-House Methods based on EN 71-1:2014+A1:2018
	Toys containing a heat source	BS EN 71-1 2014+A1:2018 4.21 Examination of Toys Containing a Non electrical Heat Source
	Small balls	BS EN 71-1 2014+A1:2018 4.22 Examination of Small Balls
	Magnets	BS EN 71-1 2014+A1:2018 4.23 Examination of Magnets
	Yo-yo balls	BS EN 71-1 2014+A1:2018 4.25 Yo-Yo Balls
	Toys attached to a food	BS EN 71-1 2014+A1:2018 4.26 Toys Attached to Food
	General hazards & size of small toys and removable components	BS EN 71-1 2014+A1:2018 5.-5.1 General Requirements for Children Under 36 Months
	Filling materials	BS EN 71-1 2014+A1:2018 5.2 Examination of Filling Materials
	Adhesion of plastic sheeting	BS EN 71-1 2014+A1:2018 5.3 Adhesion of Plastic Sheeting
	Cords on toys	BS EN 71-1 2014+A1:2018 5.4-5.4.9 Cords, Chains and Electrical Cables in Toys
	Liquid filled toys	BS EN 71-1 2014+A1:2018 5.5 Examination of Liquid-Filled Toys
Glass and porcelain	BS EN 71-1 2014+A1:2018 5.7 Examination of Glass and Porcelain	
Shape and size of certain toys	BS EN 71-1 2014+A1:2018 5.8 Examination of the Shape and Size of Certain Toys	
Toys comprising monofilament fibres	BS EN 71-1 2014+A1:2018 5.9 Examination of Toys Comprising Monofilament Fibres	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
TOYS AND TOY PACKAGING (cont'd)	<u>Specific Requirements for Children Under 36 Months (cont'd)</u> Small balls Play figures Hemispheric shaped toys Suction cups Straps to be worn <u>Packaging and Labelling Requirements</u> Packaging Labelling assessment	Documented In-House Methods based on EN 71-1:2014+A1:2018 BS EN 71-1 2014+A1:2018 5.10 Examination of Small Balls BS EN 71-1 2014+A1:2018 5.11 Examination of Play Figures BS EN 71-1 2014+A1:2018 5.12 Examination of Hemispheric Shaped Toys BS EN 71-1 2014+A1:2018 5.13 Examination of Suction Cups BS EN 71-1 2014+A1:2018 5.14 Examination of Straps to be Worn Documented In-House Methods based on EN 71-1:2014+A1:2018 BS EN 71-1 2014+A1:2018 6.0 Examination of Packaging BS EN 71-1 2014+A1:2018 7.0 Labelling



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WATERS (non regulatory)	<u>Chemical Tests</u>	Documented In-house Methods:
Surface, Ground, Waste, Land Leachate	Ammoniacal Nitrogen	LSD.WAT.01, Method 26 using colorimetry in association with Aquakem 300 analyser
Surface, Ground, Trade Effluent and Land Leachates	Nitrite	LSD.WAT.01, Method 28 using colorimetry in association with Aquakem 300 analyser
Drinking, Surface, Ground, Trade Effluent, Recreational (man made), Land Leachates	pH and Conductivity	LSD.WAT.02, Method 45, using potentiometry automated Mantech instrumentation
Drinking, Surface, Ground, Land Leachates	Total Organic Carbon (NPOC)	LSD.WAT.02, Method 8 using Hach IL-550 instrument
Surface, Ground, Trade Effluent, Land Leachates	Total Oxidised Nitrogen and Nitrate	LSD.WAT.01, Method 27 using colorimetry in association with Aquakem 300 analyser
Surface, Ground, Trade Effluent, Land Leachates	Chemical Oxygen Demand (COD)	LSD.WAT.02, Method 20 using Colorimetry
Drinking, Surface, Ground, Trade Effluent, Land Leachates, Recreational (man made)	Sulphate	LSD.WAT.01, Method 29 using colorimetry in association with Aquakem 300 analyser
Drinking	Alkalinity	LSD.WAT.02, Method 4 using titrimetry
Drinking, Surface, Ground	Ammonium	LSD.WAT.01, Method 17 using colorimetry in association with Aquakem 300 analyser
Drinking, Surface, Ground	Chloride	LSD.WAT.01, Method 20 using colorimetry in association with Aquakem 300 analyser
Drinking	Colour	LSD.WAT.02, Method 1 using spectrophotometry
Drinking	Nitrate	LSD.WAT.01, Method 18 using colorimetry in association with Aquakem 300 analyser



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-house Methods: (cont'd)
Drinking, Surface, Ground	Nitrite	LSD.WAT.01, Method 19 using colorimetry in association with Aquakem 300 analyser
Drinking	Silicate	LSD.WAT.01, Method 22 using colorimetry in association with Aquakem 300 analyser
Drinking, Surface, Ground, Waste, Land Leachates	Soluble Reactive Phosphate	LSD.WAT.01, Method 23 using colorimetry in association with Aquakem 300 analyser
Drinking	Turbidity	LSD.WAT.02, Method 2 using nephelometry
Recreational (man made)	Alkalinity	LSD.WAT.02, Method 10 using titrimetry
Drinking	Trihalomethanes and chlorinated solvents: Bromodichloromethane Bromoform Chloroform Chlorodibromomethane Tetrachloroethene Tetrachloromethane Trichloroethene	LSD.WAT.02. Method 39, by Headspace Gas Chromatography Mass Spectrometry
Recreational (man made)	Calcium (hardness)	LSD.WAT.01, Method 21 using colorimetry in association with Aquakem 300 analyser
Recreational (man made), Surface, Ground, Trade Effluent, Land Leachates	Chloride	LSD.WAT.01, Method 25 using colorimetry in association with Aquakem 300 analyser
Recreational (man made)	Total and free residual chlorine	LSD.WAT.02, Method 12 using titrimetry
Recreational (man made)	Total dissolved solids	LSD.WAT.02, Method 13 using gravimetry



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS Drinking (regulatory tap and ground water)	<p>Examination for the purpose of enforcement of The Water Intended for Human Consumption (Private Supplies) (Scotland) Regulations 2017, and Examination for the purpose of enforcement of The Public Water Supplies (Scotland) Regulations 2014 No. 364</p> <p><u>Microbiological Tests</u></p> <p>Enumeration and confirmation of:</p> <p>Enterococci</p> <p><i>Clostridium perfringens</i></p> <p>Total Coliform and <i>E. coli</i> count</p> <p>Total Coliform and <i>E. coli</i> count</p> <p>Total Aerobic Colony Count at 22°C</p> <p>Total Aerobic Colony Count at 37°C</p>	<p>Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS):</p> <p>MEX/57 based on Microbiology of Drinking Water 2012:Part 5</p> <p>MEX/58 based on The Microbiology of Drinking Water 2021:Part 6</p> <p>MEX/54 using membrane filtration based on the Microbiology of Drinking Water (2016):Part 4</p> <p>MEX/56 using Colilert based on the Microbiology of Drinking Water (2016):Part 4, Section D</p> <p>MEX/52 using pour plate based on the Microbiology of Drinking Water (2020):Part 7</p> <p>MEX/51 using pour plate based on the Microbiology of Drinking Water (2020):Part 7 and The Management and Treatment of Swimming Pool Water published by the Pool Water Treatment Advisory Group (2012)</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS Drinking (regulatory tap and ground water) (cont'd)	<u>Chemical Tests</u> (cont'd)	Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS): (cont'd)
	Non-Purgeable Organic Carbon (NPOC)	LSD.WAT.02, Method 8 using Hach IL-550 instrument
	Sulphate	LSD.WAT.01, Method 29 using colorimetry in association with Aquakem 300 analyser
	Ammonium	LSD.WAT.01, Method 17 using colorimetry in association with Aquakem 300 analyser
	Chloride	LSD.WAT.01, Method 20 using colorimetry in association with Aquakem 300 analyser
	Colour	LSD.WAT.02, Method 1 using spectrophotometry
	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)	LSD.WAT.02, Method 35, using ICP-MS (Thermo X-Series or iCAPO instruments)
	Nitrate	LSD.WAT.01, Method 18 using colorimetry in association with Aquakem 300 analyser
	Nitrite	LSD.WAT.01, Method 19 using colorimetry in association with Aquakem 300 analyser



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<p>WATERS Drinking (regulatory tap and ground water) (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>pH and Conductivity</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>Methodology meeting the requirements of The Drinking Water Testing Specification (DWTS): (cont'd)</p> <p>LSD.WAT.02, Method 45, using potentiometry automated Mantech instrumentation</p> <p>LSD.WAT.02, Method 39 by Headspace Gas Chromatography Mass Spectrometry</p> <p>LSD.WAT.02, Method 2 using nephelometry</p> <p>MEX/60 based on The Determination of Taste and Odour in Drinking Waters 2014: Environment Agency</p> <p>MEX/61, using assessed panel based on The Determination of Taste and Odour in Drinking Waters 2014: Environment Agency</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (non regulatory) Drinking (including bottled), Recreational (man made)	<u>Microbiological Tests</u> Enumeration and confirmation of: Enterococci <i>Clostridium perfringens</i> Total Coliform and <i>E. coli</i> count Total Coliform and <i>E. coli</i> count Total Aerobic Colony Count at 22°C Total Aerobic Colony Count at 37°C	Documented In-house Methods: MEX/57 based on Microbiology of Drinking Water 2012:Part 5 MEX/58 based on The Microbiology of Drinking Water 2021:Part 6 MEX/54 using membrane filtration based on the Microbiology of Drinking Water (2016):Part 4 MEX/56 using Colilert based on the Microbiology of Drinking Water (2016):Part 4, Section D MEX/52 using pour plate based on the Microbiology of Drinking Water (2020):Part 7 MEX/51 using pour plate based on the Microbiology of Drinking Water (2020):Part 7 and The Management and Treatment of Swimming Pool Water published by the Pool Water Treatment Advisory Group (2012)
Recreational (man made), Drinking (bottled)	<i>Pseudomonas aeruginosa</i>	MEX/55 using membrane filtration followed by selective isolation and confirmation based on the Microbiology of Drinking Water (2015):Part 8
WATERS (cont'd) Drinking (including bottled), Recreational (man made), Process (cooling waters)	<i>Legionella</i> spp and <i>L. pneumophila</i> sg 1 & 2-14	MEX/62 based on ISO 11731:1998 (withdrawn) confirmation using Oxoid latex kit. <i>L. pneumophila</i> 1, 2-14 and species



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (non regulatory) Drinking (including bottled), Recreational (man made) WATER, Drinking	<u>Microbiological Tests</u> Detection: Shiga toxin producing <i>E. coli</i> (STEC) DNA (Presumptive)	Documented In-house Methods: Method 020 based on CEN ISO/TS 13136:2012 by Multiplex Real-Time PCR using Bioteccon Foodproof STEC screening kit and BioRad CFX 96 analyser
END		



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Appendix 1:

Pesticides determined by in-house method F2101		
acephate	imidacloprid	pymetrozine
atrazine	kresoxim-methyl	pyrazophos
azinphos-methyl	linuron	simazine
azoxystrobin	metazachlor	tebuconazole
carbaryl	methabenzthiazuron	terbutylazine
chlorpyrifos	methamidophos	terbutryn
chlorpyrifos-methyl	methidathion	thiabendazole
cyanazine	methomyl	tolcofos-methyl
cyprodinil	metoxuron	tolyfluanid
demeton-S-methyl	metribuzin	
dichlorvos	omethoate	
dimethoate	pirimiphos-methyl	
diuron	profenfos	
ethion	prometryn	
imazalil	prothiofos	