


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 1005</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>The City of Edinburgh Council</h3> <p>Issue No: 050 Issue date: 12 May 2022</p>	
	<p>Edinburgh Scientific Services 4 Marine Esplanade Edinburgh EH6 7LU</p>	<p>Contact: Charles Veitch Tel: +44 (0)131 555 7980 Fax: +44 (0)131 555 7987 E-Mail: scientific.services@edinburgh.gov.uk Website: www.edinburgh.gov.uk/scientificservices</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
ANIMAL FEEDING STUFFS	<u>Chemical Tests</u>	Documented In-House Methods:
	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ (small sample size)	Method FVU 329 using HPLC with immuno-affinity column and fluorescence detector
	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A (small sample size)	Method FIH072 using HPLC with immuno-affinity column and fluorescence detector
	Ash	F/IH/004 using gravimetry
	Acid insoluble ash	F/IH/31 using gravimetry
	Crude Fibre	FVU223 using Foss Fibertec
	Oil/Fat	F/IH/005 using acid digestion and soxhlet extraction
	Moisture	F/IH/006 using gravimetry
	Nitrogen	Method FVU 013 using digestion block
	Protein	F/IH/007, calculation based on Method FVU 013
Arsenic, Cadmium, Cobalt, Copper, Lead, Mercury, Selenium and Zinc	FIH073 using ICP-MS	
Vitamins A, and E	FIH064 using HPLC with UV/PDA detection	



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ANIMAL FEEDING STUFFS	<u>Microbiological Tests</u> Isolation and confirmation of: <i>Salmonella</i> spp.	Documented In-House Methods: Method M/018 using enrichment based on BS EN ISO 6579:2002 + A1:2007
FOODS and FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods:
- Alcoholic beverages	Alcoholic strength Alcoholic strength	Method FVU 163 by obscuration F/IH/020 using distillation and density measurement
	Congeners: Acetaldehyde Amyl alcohols Ethyl acetate Methanol 2-methylpropan-1-ol Propan-1-ol	Method FVU 161 using GC/FID
- Alcoholic beverages (cont'd)	Sugars: Fructose Glucose Sucrose	Method FIH053 using HPLC with pulsed amperometric detection
- Apple juice	Patulin	Method FIH079 using HPLC with UV detection
- Bakery products	Moisture	Method FVU 222 using gravimetry
- Dairy products	Nitrogen	FVU 013 using digestion block followed by steam distillation and titration of the distillate
	Total solids	Methods FVU 005, FVU 136 and FVU 148 using Gravimetry
- Cheese	Water content	Method FVU 294
- Cream	Protein	F/IH/007, calculation based on Method FVU 013
	Fat	FVU 108 using the Rose-Gottlieb method



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
- Cream (cont'd)	Fat	FVU 216 using the Gerber method
- Milk	Antibiotic residues and other inhibitory substances	Method FVU 260 using Delvotest SP kits
	Fat	FVU 004 using the Rose-Gottlieb method
	Fat	FVU 008 using the Gerber method
	Freezing point depression	Method FVU 147 using Thermistor Cryoscope
Milk and Milk Products	Milk-solids - non-fat	F/IH/008, calculation based on results of accredited tests
	Phosphatase activity	Method FIH067 using Fluorophos Instrument
Milk	Titrateable acidity	Method FVU 131 using titrimetry
- Fats and oils	Fatty acid composition	FVU 291 using capillary gas chromatography
	Free fatty acids	Method FVU 010 using titrimetry
	n-Butyric acid	Method FVU 289 using GC/FID
	Peroxide value	Method FVU 009 using titrimetry
- Fish and fish products	Fish content	F/IH/010, a calculated result based on accredited moisture fat, protein and carbohydrate test results
	Identification of species	FIH059 using DNA extraction, PCR-RFLP with detection of DNA fragments using the Agilent 2100 Bioanalyser
	Total volatile nitrogen	Method FVU 157 using titration
- Nuts, nut products	Aflatoxins - B ₁ , B ₂ , G ₁ , G ₂ (small sample size)	Method FVU 329 using immuno-affinity column/HPLC/fluorescence detector



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
- Nuts, nut products spices	Aflatoxins - B1, B2, G1, G2 Ochratoxin A (small sample size)	Method FIH072 using immuno-affinity column/HPLC/ fluorescence detector
- Foods in general	Acidity	Method F/IH/013 by titration
	Alcohol content	Method F/IH/019 using GC/FID
	Compositional Analysis, Additives, Colourings, Preservatives and related contaminants	Development and modification of methods for analysis using the Flexible Scope Procedures GP/501 using HPLC
	Compositional Analysis, Additives, Colourings, Preservatives and related contaminants	Development and modification of methods for analysis using the Flexible Scope Procedures GP/601 using GC-FID
	Compositional Analysis, Additives, Colourings, Preservatives and related contaminants	Development and modification of methods for analysis using the Flexible Scope Procedures GP/701 using UV Spectrophotometry
	Compositional Analysis, contaminants, Allergens and Meat Species	Development and modification of methods for analysis using the Flexible Scope Procedures GP/1000 using ELISA test kits
	Artificial colours (quantitative)	Method FVU 104 using HPLC with UV detection
	Additives and flavouring: Acesulfame K Aspartame Benzoic acid Caffeine Saccharin Sorbic acid	Method F/IH/028 by HPLC with UV detection
	Ash	Method F/IH/004 using gravimetry
	Acid insoluble ash	Method F/IH/031 using gravimetry
	Butter fat	Method FVU 289 by calculation



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
- Foods in general (cont'd)	Arsenic, Cadmium, Mercury, Lead, Copper and Zinc	FIH073 using ICP-MS
	Energy value Kcal/100g kJ/100g	Method FVU 381, a calculated result based on accredited protein, carbohydrate, fat and alcohol in food test results
	Fat	F/IH/002 using Werner-Schmidt method
	Identification of materials	Development and modification of methods for analysis using Flexible Scope Procedure GP/300 using light microscopy
	Fat	Method F/IH/005 using acid digestion and Soxhlet extraction
	Free fat and Moisture	Method F/IH/018 using Gravimetry and Soxhlet extraction
	Moisture	Method F/IH/006 using gravimetry
	Monosodium glutamate	Method F/IH/036 using HPLC with UV detection
	Nitrogen	Method FVU 013 using digestion block followed by steam distillation and titration of the distillate
	pH	Method FVU 282
	Protein	Method F/IH/007, calculation based on results of accredited tests
	Soluble solids	Method FVU 247 using refractometer
	Sugars	Method F/IH/014 using HPLC with refractive index detection
	Sulphur dioxide	Method FVU 246 using iodine titration



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FOODS and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:
- Foods in general (cont'd)	Water activity	Method F/IH/021 using chilled mirror dew point technique
- Meats and meat products	Hydroxyproline	FVU 092 using UV/VIS spectrophotometry
	Meat content	Method F/IH/010, calculated result based on accredited test results
	Identification of meat species	Flexible Scope Procedure GP/1000 using enzyme immunoassay test kits
- Meats and meat products (raw and cooked)	Identification of meat species: Horse Pork	Method FPCR02 detection of equine and porcine Mitochondrial DNA using Real time qPCR technique with the Applied Biosystems OneStepPlus Real Time PCR
	Nitrite	Method FVU 288 using UV/VIS spectrophotometry
- Meats and meat products (raw and cooked) (cont'd)	Total volatile nitrogen	Method FVU 157 using titrimetry
- Soya based sauces	3-monochloropropan-1,2 -diol (3-MCPD)	Method FIH071 using GC-MS
- Spices and condiments	Examination	Method FVU 224 using optical microscopy
- Fruit products	Drained weight	Method FVU 052 using gravimetry
- Honey	Moisture content	Method FVU 265 using refractometer
	Ash	Method FVU 122 using gravimetry
	Water-insoluble solids	Method FVU 266 using gravimetry



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<p>- Foods in general</p>	<p><u>Microbiological Tests</u></p> <p>Isolation and enumeration of:</p> <p>Total colony count at 30 °C</p> <p>Total coliforms and <i>Escherichia coli</i></p> <p><i>Escherichia coli</i></p> <p><i>Bacillus cereus</i></p> <p><i>Clostridium perfringens</i></p> <p><i>Enterobacteriaceae</i></p> <p><i>Enterococci faecalis</i></p> <p><i>Listeria and Listeria monocytogenes</i></p> <p><i>Staphylococcus aureus</i></p> <p><i>Campylobacter</i> spp</p> <p><i>Escherichia coli</i> O157</p>	<p>Documented In-House Methods:</p> <p>Method M/015 using pour plate count based on BS EN 4833-1:2013</p> <p>Method M/044 using chromogenic medium</p> <p>Method M/051 using colony count based on BS ISO 16649-2:2001</p> <p>Method M/024 using plate count based on BS EN ISO 7932:1998</p> <p>Method M/022 using plate count based on BS EN ISO 7937:2004</p> <p>Method M/027 using plate count based on BS ISO 21528-2:2017</p> <p>Method M/017 using plate count based on BS 4285-Part 3.11:1985</p> <p>Method M/021 using enrichment and plate count based on BS EN ISO 11290-2:2017 with identification using API Listeria</p> <p>Method M/020 using plate count based on BS EN ISO 6888-1:1999</p> <p>Method M/023 using Preston enrichment broth incubated at 37°C for 48 hours and plating onto CCDA and Chromogenic agar and incubated at 41.5°C for 48hours with confirmation by morphology, motility, oxidase, Oxoid campy latex, and biochemical identification using API Campy test</p> <p>Method M/041 using enrichment and immuno-magnetic separation based on BS EN ISO 16654:2001 + AMD 1:2017</p>



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FOODS and FOOD PRODUCTS (cont'd) - Foods in general (cont'd)	<u>Microbiological Tests</u> (cont'd) Isolation and confirmation of: (cont'd) <i>Listeria</i> spp. and <i>Listeria monocytogenes</i> <i>Salmonella</i> spp. <i>Yeast and moulds</i>	Documented In-House Methods: Method M/019 using enrichment based on BS EN ISO 11290-1:2017 with identification using API Listeria Method M/018 using enrichment based on BS EN ISO 6579-1: 2017: Method M/045 using spread plate method based on ISO 21527-1:2008 in products with water activity greater than 0.95
Shellfish (bivalve molluscan) - Foods in general (cont'd)	Enumeration of <i>E. coli</i> Isolation and enumeration of: <i>Escherichia coli</i> <i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Method M/047 using MPN based on BS EN ISO 16649-3: 2015 Method M/051 using selective medium, based on BS ISO 16649-2:2001 Method M/021 using enrichment and plate count based on BS EN ISO 11290-2:2017 with identification using API Listeria
FOODS and FOOD PRODUCTS - Foods in general (cont'd)	<u>Microbiological Tests</u> (cont'd) Isolation and confirmation of: (cont'd) <i>Enterobacteriaceae</i> <i>Staphylococcus aureus</i> <i>Salmonella</i> spp	Documented In-House Methods based on the methods specified in the Food Hygiene (Scotland) Regulations 2006 Method M/027 using plate count based on BS ISO 21528-2:2017 Method M/020 using plate count based on BS EN ISO 6888-1:1999 Method M/018 using enrichment and plating based on BS EN ISO 6579-1:2017



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FOODS and FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods based on the methods specified in the Food Hygiene (Scotland) Regulations 2006
- Foods in general (cont'd)	Isolation and confirmation of: (cont'd)	
	<i>Listeria spp and Listeria monocytogenes</i>	Method M/019 using enrichment and plating based on BS EN ISO 11290-1:2017 with identification using API Listeria'
	<i>Escherichia coli O157</i>	Method M/041 using enrichment, immuno-magnetic separation and plating based on BS EN ISO 16654:2001 + AMD 1 :2017
Raw Poultry	Enumeration:	
	<i>Campylobacter spp.</i>	Method M/060 based on ISO 10272-2:2017 with confirmation using Oxidase, Aerobic Growth Capability, Motility and Morphology
FOODS and FOOD PRODUCTS (cont'd)	<u>Molecular Biology Tests</u>	Documented In-House Procedure:
Processed Meat Products, Raw and Processed Poultry	Detection of:	
	Campylobacter jejuni DNA	MPCR08 by real time PCR of "CaD-F" target specific Probes and Primers, using the ABI Step One Plus Thermocycler, following primary enrichment in Modified Preston Broth. Confirmation of culturable organisms using the Instagene extraction procedure and real time PCR for the detection of the CaD-F gene.
Bean Sprouts / Sprouted Seeds	Shiga Toxin Producing <i>Escherichia coli</i> DNA specific to stx1, stx2 and eae genes	MPCR09 by real time PCR of stx1, stx2 and eae target specific Probes and Primers following primary enrichment in Modified Tryptone Soya Broth.



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FOODS and FOOD PRODUCTS (cont'd)	<u>Molecular Biology Tests (cont'd)</u>	Documented In-House Procedure:
Dairy Products	Detection of: Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR012 by real time PCR of stsx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth
Mince and Meat Products	Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR013 by real time PCR of stsx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth
FOODS and FOOD PRODUCTS, ANIMAL FEEDING STUFFS, ENVIRONMENTAL SAMPLES (soils and waters)	Detection and Identification of Bacteria DNA using Specific Genomic Sequences	Development and modification of methods and analysis using the Flexible Scope Procedure GP1103 using Real Time PCR
POLLUTANTS AND EFFLUENTS:	<u>Chemical Tests</u>	Documented In-House Method:
Atmospheric	Nitrogen dioxide (collected by diffusion tubes)	Method EA/017 based on Apling A J, et al, Warren Spring Laboratory, LR 311 (AP), 1979 using spectrophotometry
SWABS	<u>Microbiological Tests</u>	Documented In-House Methods:
- Environmental swabs	Sample preparation Total colony count at 30 °C Coliforms <i>Escherichia coli</i>	Method M/046 followed by Method M/015 using plate count based on BS EN 4833-1:2013 Method M/044 using plate count on chromogenic medium Method M/044 using plate count on chromogenic medium



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WATERS Potable, surface, ground water	<u>Chemical Tests</u> Alkalinity Ammonia and ammonium ion Colour Dry residue at 180 °C Electrical conductivity pH Turbidity Lead Chloride Nitrate Sulphate Residual disinfectant	Documented In-House Methods: Method W/010 based on SCA Method, 1981 (ISBN 011 75116015) Method W/012 based on SCA Method, 1981 (ISBN 011 75116939) Method W/021 based on SCA Method, 1981, 1988 (ISBN 011 7519553, ISBN 011 7520837) Methods W/005 based on SCA Method, 1980 TDS (ISBN 011 751957X) Method W/004 based on SCA Method, 1978 (ISBN 011 7514284) Method W/003 based on SCA Method, 1978 (ISBN 011 7514284) Method W/022 based on SCA Method, 1981 (ISBN 011 7519553) W/015 using ETA-AAS Method W/024 using ion chromatography Method W/024 using ion chromatography Method W/024 using ion chromatography Method W/017 based on SCA Method, 1980 (ISBN 011 7514934)



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WATERS (Cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water
Potable waters	Isolation and confirmation of: <i>Escherichia coli</i> O157	Method M/030 using enrichment and immuno-magnetic separation based on BS EN ISO 16654:2001 + AMD 1:2017
	<i>Salmonella</i> spp	Method M/006 using enrichment based on The Microbiology of Drinking Water (2006) Part 9, including additional secondary enrichment in MKTTn and isolation on XLD and BGA agars
Potable, surface, ground water	Isolation and enumeration of: <i>Total viable colony count at 22 °C and 37 °C</i>	Method M/001 using membrane filtration
Potable waters	<i>Legionella</i> spp	1) Method M/008 based on ISO 11731:1998 (Withdrawn) 2) Method M/058 based on ISO 11731-2:2004 (Withdrawn)
Potable, surface, ground water	<i>Total coliforms and Escherichia coli</i>	Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D
Potable, surface, ground water (cont'd)	Total coliforms and <i>Escherichia coli</i>	M/042 using membrane filtration and chromogenic medium
	<i>Enterococci</i>	Method M/004 using membrane filtration based on The Microbiology of Water (2012) Part 5A
	<i>Pseudomonas aeruginosa</i>	Method M/010 using membrane filtration
Potable, surface, ground water, closed hot and cold water systems water and spa bath water (excluding cooling tower and high bio-burden waters)	Detection and quantification of: <i>Legionella</i> species DNA	Method MPCR01 using RT-PCR



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<p>WATERS (Cont'd)</p> <p>Potable waters (including Public and Private Water Supplies)</p>	<p><u>Chemical Tests</u></p> <p>Analysis for the purpose of enforcement of:</p> <ul style="list-style-type: none"> - The Water Supply (Water Quality) (Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281) <p>Ammonia and ammonium ions</p> <p>Colour</p> <p>Electrical conductivity</p> <p>Turbidity</p> <p>Anions: Fluoride Chloride Nitrate Nitrite Phosphate Sulphate</p> <p>Antimony Arsenic Mercury Selenium</p> <p>Lead</p>	<p>Documented In-House Methods:</p> <p>Methodology meeting the requirements of The Drinking Water Testing Specification</p> <p>Method W/012 using UV Spectrophotometry</p> <p>Method W/021 using UV Spectrophotometry</p> <p>Method W/004 using conductivity meter</p> <p>Method W/022 using Turbidity Meter</p> <p>Method W/024 using ion chromatography</p> <p>Method W042 using ICP-MS</p> <p>Method W/015 ETV-AAS</p>



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<p>WATERS (Cont'd)</p> <p>Potable waters (including Public and Private Water Supplies) (cont'd)</p>	<p><u>Microbiological Tests</u></p> <p>Analysis for the purpose of enforcement of:</p> <ul style="list-style-type: none"> - The Water Supply (Water Quality) (Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281) <p>Faecal <i>enterococci</i></p> <p>Coliforms and <i>E coli</i></p> <p>Detection and enumeration of:</p> <p>Coliforms and E coli</p> <p>Isolation and confirmation of:</p> <p>Sulphite Reducing Clostridia and Clostridium perfringens</p>	<p>Methodology meeting the requirements of The Drinking Water Testing Specification</p> <p>Method M/004 based on The Microbiology of Drinking Water (2012) Part 5A</p> <p>Method M/042 based on The Microbiology of Drinking Water (2016) Part 4B</p> <p>Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4 D</p> <p>Method M/007 based on The Microbiology of Drinking Water (2015) Part 6</p>
<p>WATERS: Waste and Effluents</p>	<p><u>Chemical Tests</u></p> <p>Biological Oxygen Demand</p> <p>Chemical Oxygen Demand</p> <p>Suspended Solids</p>	<p>Documented In-House Methods:</p> <p>Method W036 based on MEWAM 1981 using by colorimetry (Hach Lange system)</p> <p>Method W/037 using Spectrophotometry (Hach-Lange COD Analyzer)</p> <p>Method W029 using Gravimetry</p>



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SWIMMING POOL WATERS	<u>Chemical Tests</u> pH Conductivity Calcium Alkalinity Residual disinfectant; Free residual chlorine Monochloramine Dichloramine Combined Chlorine Total Residual Chlorine Turbidity <u>Microbiological Tests</u> Enumeration of: Total aerobic colony count at 22°C and 37°C Total coliforms and <i>Escherichia coli</i> <i>Pseudomonas aeruginosa</i>	Documented In-House Methods: Method W/003 based on SCA Method 1978 B Method W/004 based on SCA Method 1978 A Method W/008 based on SCA Method 1981 Method W/010 based on SCA Method 1978 A Documented In-House Method W/017 based on SCA Method, 1980 (ISBN 011 7514934) Method W/022 based on SCA Method, 1981 (ISBN 011 7519553) Documented In-House Methods based on The Microbiology of Drinking Water 2002 Method M/001 using membrane filtration M/042 using membrane filtration and chromogenic medium Method M/010 using membrane filtration
END		