


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING <b>1005</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>City of Edinburgh Council</h3> <p><b>Issue No:</b> 061      <b>Issue date:</b> 06 February 2026</p>	
	<p><b>Edinburgh Scientific Services</b> 4 Marine Esplanade Edinburgh EH6 7LU</p>	<p><b>Contact:</b> Sarah Green <b>Tel:</b> +44 (0)131 555 7980 <b>Fax:</b> +44 (0)131 555 7987 <b>E-Mail:</b> <a href="mailto:scientific.services@edinburgh.gov.uk">scientific.services@edinburgh.gov.uk</a> <b>Website:</b> <a href="http://www.edinburgh.gov.uk/scientificservices">www.edinburgh.gov.uk/scientificservices</a></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDING STUFFS	<p><u>Chemical Tests</u></p> <p>*Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>*Aflatoxins - B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub> (small sample size)</p> <p>*Aflatoxins - B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub> Ochratoxin A (small sample size)</p> <p>*Ash</p> <p>*Acid insoluble ash</p> <p>*Crude Fibre</p> <p>*Oil/Fat</p> <p>*Moisture</p> <p>*Nitrogen</p> <p>*Protein</p> <p>*Arsenic, *Cadmium, *Cobalt, *Copper, *Lead, *Mercury, *Selenium and *Zinc</p>	<p>Documented In-House Methods:</p> <p>Method FVU 329 using HPLC with immuno-affinity column and fluorescence detector</p> <p>Method FIH072 using HPLC with immuno-affinity column and fluorescence detector</p> <p>F/IH/004 using gravimetry</p> <p>F/IH/31 using gravimetry</p> <p>FVU223 using Foss Fibertec</p> <p>F/IH/005 using acid digestion and soxhlet extraction</p> <p>F/IH/006 using gravimetry</p> <p>Method FVU 013 using digestion block</p> <p>F/IH/007, calculation based on Method FVU 013</p> <p>FIH073 using ICP-MS</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDING STUFFS (cont'd)	<u>Chemical Tests</u> (cont'd)  *Vitamins A, and E  <u>Microbiological Tests</u>  Detection and confirmation of:  * <i>Salmonella</i> spp.	Documented In-House Methods:  FIH064 using HPLC with UV/PDA detection     Method M/018 using enrichment based on BS EN ISO 6579:2002 + A1:2007 with confirmation by API and serology
FOODS and FOOD PRODUCTS as specified	<u>Chemical Tests</u>  *Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	
Alcoholic beverages	*Alcoholic strength	Method FVU 163 by obscuration
Alcoholic beverages	*Alcoholic strength	F/IH/020 using distillation and density measurement
Alcoholic beverages	*Sugars: *Fructose *Glucose *Sucrose	Method FIH053 using HPLC with pulsed amperometric detection
Dairy products	*Nitrogen	FVU 013 using digestion block followed by steam distillation and titration of the distillate
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 as specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:
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	*Titratable 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
Fishery Products	*Total Viable Basic Nitrogen TVB-N	FVU 216 using steam distillation and titration



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FOODS and FOOD PRODUCTS as specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:
Nuts, nut products	*Aflatoxins - B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> (small sample size)	Method FVU 329 using immuno-affinity column/HPLC/fluorescence detector
Nuts, nut products and spices	*Aflatoxins - B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> Ochratoxin A (small sample size)	Method FIH072 using immuno-affinity column/HPLC/fluorescence detector
FOODS and FOOD PRODUCTS unspecified	*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
	*Arsenic, *Cadmium, *Mercury, *Lead, *Copper and *Zinc	FIH073 using ICP-MS



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FOODS and FOOD PRODUCTS unspecified (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>*Additives and flavouring: Acesulfame K Aspartame Benzoic acid Caffeine Saccharin Sorbic acid</p> <p>*Ash</p> <p>*Acid insoluble ash</p> <p>*Butter fat</p> <p>*Energy value *Kcal/100g *kJ/100g</p> <p>*Fat</p> <p>*Identification of materials</p> <p>*Fat</p> <p>*Free fat and Moisture</p> <p>*Moisture</p> <p>*Monosodium glutamate</p> <p>*Nitrogen</p> <p>*pH</p>	<p>Documented In-House Methods:</p> <p>Method F/IH/028 by HPLC with UV detection</p> <p>Method F/IH/004 using gravimetry</p> <p>Method F/IH/031 using gravimetry</p> <p>Method FVU 289 by calculation</p> <p>Method FVU 381, a calculated result based on accredited protein, carbohydrate, fat and alcohol in food test results</p> <p>F/IH/002 using Werner-Schmidt method</p> <p>Development and modification of methods for analysis using Flexible Scope Procedure GP/300 using light microscopy</p> <p>Method F/IH/005 using acid digestion and Soxhlet extraction</p> <p>Method F/IH/018 using Gravimetry and Soxhlet extraction</p> <p>Method F/IH/006 using gravimetry</p> <p>Method F/IH/036 using HPLC with UV detection</p> <p>Method FVU 013 using digestion block followed by steam distillation and titration of the distillate</p> <p>Method FVU 282</p>



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FOODS and FOOD PRODUCTS unspecified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
	*Nitrogen	Method FVU 013 using digestion block followed by steam distillation and titration of the distillate	
	*pH	Method FVU 282	
	*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	
	*Water activity	Method F/IH/021 using chilled mirror dew point technique	
	MEAT and MEAT PRODUCTS (raw and cooked)	*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
*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	
*Total volatile nitrogen		Method FVU 157 using titrimetry	



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FOODS and FOOD PRODUCTS as specified  Soya based sauces  Spices and condiments  Fruit products  Honey	<u>Chemical Tests</u> (cont'd)  *3-monochloropropan1,2 -diol (3-MCPD)  *Examination  *Drained weight  *Moisture content  *Water-insoluble solids	Documented In-House Methods:  Method FIH071 using GC-MS  Metho FVU 224 using optical microscopy  Method FVU 052 using gravimetry  Method FVU 265 using refractometer  Method FVU 266 using gravimetry



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<p>FOODS and FOOD PRODUCTS unspecified unless stated</p>	<p><u>Microbiological Tests</u></p> <p>*Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>Detection and confirmation:</p> <p>*<i>Campylobacter</i> spp.</p> <p>*<i>Escherichia coli</i> O157</p> <p>*<i>Listeria</i> spp. and <i>Listeria monocytogenes</i></p> <p>*<i>Salmonella</i> spp.</p> <p>Enumeration:</p> <p>*<i>Bacillus cereus</i> (presumptive)</p> <p>*Enterobacteriaceae (presumptive and confirmed)</p>	<p>Documented In-House Methods:</p> <p>Method M/023 using Preston enrichment broth incubated at 37°C for 48 h and plating onto CCDA and Chromogenic agar and incubated at 41.5°C for 48h 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 + A2:2023</p> <p>Method M/019 using enrichment based on BS EN ISO 11290-1:2017 with identification using API Listeria</p> <p>Method M/018 using enrichment based on BS EN ISO 6579-1: 2017+A1:2020 with confirmation by API and serology</p> <p>Method M/024 using plate count PEMBA Agar</p> <p>Method M/027 using plate count based on BS ISO 21528-2:2017</p>



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FOODS and FOOD PRODUCTS unspecified unless stated (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:
Raw Poultry	Enumeration: (cont'd)  * <i>Campylobacter</i> spp	Method M/060 based on ISO 10272-2:2017+A1:2023 with confirmation using Oxidase, Aerobic Growth Capability, Motility and Morphology
Shellfish (bivalve molluscan)	*Enterococci  *β-glucuronidase positive <i>Escherichia coli</i>  *β-glucuronidase positive <i>Escherichia coli</i>  * <i>Listeria</i> spp and <i>Listeria monocytogenes</i>	Method M/017 using plate count based on BS 4285-Part 3.11:1985  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
Matrices with water activity >0.95	*Coagulase positive Staphylococci including <i>Staphylococcus aureus</i>  *Total colony count at 30 °C  *Yeast and moulds	Method M/020 using plate count based on BS EN ISO 6888-1:2021  Method M/015 using pour plate count based on BS EN 4833-1:2013 +A1:2022  Method M/045 using spread plate method based on BS EN ISO 21527-1:2008 in products with water activity greater than 0.95
ENVIRONMENTAL SWABS	Total colony count at 30 °C	Method M/046 (preparation) followed by Method M/015 using plate count based on BS EN 4833-1:2013+A1: 2022



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FOODS and FOOD PRODUCTS as specified (cont'd)	<p><u>Molecular Biology Tests</u></p> <p>*Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>Detection of:</p>	Documented In-House Procedure:
Bean Sprouts / Sprouted Seeds	*Presumptive 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 or Buffered Peptone Water Broth
Dairy Products	* Presumptive Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR012 by real time PCR of stx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth or Buffered Peptone Water Broth
Mince and Meat Products	* Presumptive Shiga Toxin Producing <i>Escherichia coli</i> (STEC) DNA specific to stx1, stx 2 and eae genes	MPCR013 by real time PCR of stx1, stx2 and eae target specific Probes and Primers, following primary enrichment in Modified Tryptone Soya Broth or Buffered Peptone Water 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 by spectrophotometry



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



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<p>WATERS (cont'd)</p> <p>Drinking Water, surface, ground water</p> <p>Drinking waters</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Enumeration:</p> <p>Total aerobic colony count at 22 °C and 37 °C</p> <p><i>Legionella spp</i></p>	<p>Documented In-House Methods</p> <p>Method M/001 based on The Microbiology of Drinking Water (2020) Part 7</p> <p>1) In-House Method M/008 Concentration by filtration followed by washing procedure. Plating of 3 portions onto GVPC agar (Heat, Acid, Untreated). Confirmation by BCYE and identification using Latex Agglutination</p> <p>2) In-House Method M/058 Concentration by filtration followed by acid treatment and direct plating onto GVPC. Confirmation by BCYE and identification using Latex Agglutination</p>
<p>Drinking, surface, ground water</p>	<p>Total coliforms and <i>Escherichia coli</i></p> <p>Enterococci</p> <p><i>Pseudomonas aeruginosa</i></p>	<p>1) Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D</p> <p>2) Method M/042 using membrane filtration and chromogenic medium</p> <p>Method M/004 using membrane filtration based on The Microbiology of Water (2012) Part 5A</p>
<p>Drinking, surface, ground water, closed hot and cold water systems water and spa bath water (excluding cooling tower and high bio-burden waters)</p>	<p>Detection and quantification of: <i>Legionella</i> species DNA</p>	<p>Method M/010 using membrane filtration based on the Microbiology of Drinking Water (2015) Part 8</p> <p>Method MPCR01 using RT-PCR</p>



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<p>WATERS (cont'd)</p> <p>Drinking 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"> <li>- The Water Supply (Water Quality) (Scotland) Regulations 2014</li> <li>- The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281)</li> </ul> <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 Lead Selenium</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>



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<p>WATERS (cont'd)</p> <p>Drinking 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"> <li>- The Water Supply (Water Quality) (Scotland) Regulations 2014</li> <li>- The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281)</li> </ul> <p>Enumeration and confirmation:</p> <p>Enterococci</p> <p>Coliforms and <i>Escherichia coli</i></p> <p>Sulphite Reducing Clostridia and <i>Clostridium perfringens</i></p> <p>Total aerobic colony count at 22 °C and 37 °C</p>	<p>Documented In-House Methods:</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/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D</p> <p>Method M/007 based on The Microbiology of Drinking Water (2021) Part 6</p> <p>Method M/001 based on The Microbiology of Drinking Water (2020) Part 7</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 (cont'd)</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 based on the Microbiology of Drinking Water (2020) Part 7  M/042 using membrane filtration and chromogenic medium  Method M/010 using membrane filtration based on the Microbiology of Drinking Water (2015) Part 8
END		