


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>Accredited to ISO/IEC 17025:2017</b></p>	<p align="center"><b>The City of Edinburgh Council</b></p> <p align="center"><b>Issue No: 057      Issue date: 21 February 2025</b></p>	
	<p><b>Edinburgh Scientific Services</b>  <b>4 Marine Esplanade</b>  <b>Edinburgh</b>  <b>EH6 7LU</b></p>	<p><b>Contact: Charles Veitch</b>  <b>Tel: +44 (0)131 555 7980</b>  <b>Fax: +44 (0)131 555 7987</b>  <b>E-Mail: <a href="mailto:scientific.services@edinburgh.gov.uk">scientific.services@edinburgh.gov.uk</a></b>  <b>Website: <a href="http://www.edinburgh.gov.uk/scientificservices">www.edinburgh.gov.uk/scientificservices</a></b></p>
<p align="center"><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>  *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Aflatoxins - B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>  <small>(small sample size)</small></p> <p>*Aflatoxins - B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>  Ochratoxin A  <small>(small sample size)</small></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>*Vitamins A, and E</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> <p>FIH064 using HPLC with UV/PDA detection</p>



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ANIMAL FEEDING STUFFS	<u>Microbiological Tests</u>  *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625  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>  *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:
- Alcoholic beverages	*Alcoholic strength  *Alcoholic strength	Method FVU 163 by obscuration  F/IH/020 using distillation and density measurement
- Alcoholic beverages (cont'd)	*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  *Fat  *Fat	F/IH/007, calculation based on Method FVU 013  FVU 108 using the Rose-Gottlieb method  FVU 216 using the Gerber method



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
- Milk	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	
	*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



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
Fishery Products	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625  *Total Viable Basic Nitrogen TVB-N	FVU 216 using steam distillation and titration
- 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 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 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



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FOODS and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
- Foods in general (cont'd)	<p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*Arsenic, *Cadmium, *Mercury, *Lead, *Copper and *Zinc</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>FIH073 using ICP-MS</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>



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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)	*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	
	*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
- Foods in general (cont'd)	*Water activity	Method F/IH/021 using chilled mirror dew point technique
- Meats and meat products	8Hydroxyproline	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
	*Total volatile nitrogen	Method FVU 157 using titrimetry



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<p>FOODS and FOOD PRODUCTS (cont'd)</p> <ul style="list-style-type: none"> <li>- Soya based sauces</li> <li>- Spices and condiments</li> <li>- Fruit products</li> <li>- Honey</li> </ul>	<p><u>Chemical Tests</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>*3-monochloropropan1,2 -diol (3-MCPD)</p> <p>*Examination</p> <p>*Drained weight</p> <p>*Moisture content</p> <p>*Ash</p> <p>*Water-insoluble solids</p>	<p>Documented In-House Methods:</p> <p>Method FIH071 using GC-MS</p> <p>Metho FVU 224 using optical microscopy</p> <p>Method FVU 052 using gravimetry</p> <p>Method FVU 265 using refractometer</p> <p>Method FVU 122 using gravimetry</p> <p>Method FVU 266 using gravimetry</p>



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FOODS and FOOD PRODUCTS unless specified (cont'd)	<p><u>Microbiological Tests</u></p> <p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>Detection and confirmation of:</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 of:</p> <p>*<i>Bacillus cereus</i></p> <p>*<i>Clostridium perfringens</i></p> <p>*Enterobacteriaceae</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</p> <p>Method M/024 using plate count based on BS EN ISO 7932:1998 +A1:2020</p> <p>Method M/022 using plate count based on BS EN ISO 15213-2:2023 with in-house confirmation using NMM and LG</p> <p>Method M/027 using plate count based on BS ISO 21528-2:2017</p>





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FOODS and FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods:
Raw Poultry	<p>*Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625</p> <p>Enumeration:</p> <p>*<i>Campylobacter</i> spp</p> <p>*<i>Enterococci faecalis</i></p>	<p>Method M/060 based on ISO 10272-2:2017+A1:2023 with confirmation using Oxidase, Aerobic Growth Capability, Motility and Morphology</p> <p>Method M/017 using plate count based on BS 4285-Part 3.11:1985</p>
Shellfish (bivalve molluscan)	<p>*<i>Escherichia coli</i></p> <p>*<i>Escherichia coli</i></p> <p>*<i>Listeria</i> spp and <i>Listeria monocytogenes</i></p> <p>*<i>Staphylococcus aureus</i></p> <p>*Total colony count at 30 °C</p> <p>*Yeast and moulds</p>	<p>Method M/047 using MPN based on BS EN ISO 16649-3: 2015</p> <p>Method M/051 using selective medium, based on BS ISO 16649-2:2001</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 6888-1:2021</p> <p>Method M/015 using pour plate count based on BS EN 4833-1:2013 +A1:2022</p> <p>Method M/045 using spread plate method based on BS EN ISO 21527-1:2008 in products with water activity greater than 0.95</p>
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 (cont'd)	<u>Molecular Biology Tests</u>  *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625  Detection of:	Documented In-House Procedure:
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
Dairy Products	*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
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 stx1, 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



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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
WATERS		
Potable, 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)



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WATERS (cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods
Potable waters	Detection and confirmation of:  <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	Enumeration of:  Total viable colony count at 22 °C and 37 °C	Method M/001 based on The Microbiology of Drinking Water (2020) Part 7
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	Total coliforms and <i>Escherichia coli</i>	1) Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D 2) Method M/042 using membrane filtration and chromogenic medium
	Enterococci	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 based on the Microbiology of Drinking Water (2015) Part 8



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<p>WATERS (cont'd)</p> <p>Potable, surface, ground water, closed hot and cold water systems water and spa bath water (excluding cooling tower and high bio-burden waters)</p> <p>Potable waters (including Public and Private Water Supplies)</p>	<p><u>Chemical Tests</u></p> <p>Detection and quantification of: <i>Legionella</i> species DNA</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:</p> <ul style="list-style-type: none"> <li>Fluoride</li> <li>Chloride</li> <li>Nitrate</li> <li>Nitrite</li> <li>Phosphate</li> <li>Sulphate</li> </ul> <p>Antimony</p> <p>Arsenic</p> <p>Lead</p> <p>Selenium</p>	<p>Documented In-House Methods:</p> <p>Method MPCR01 using RT-PCR</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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WATERS (cont'd)  Potable waters (including Public and Private Water Supplies) (cont'd)	<u>Microbiological Tests</u>  Analysis for the purpose of enforcement of: - The Water Supply (Water Quality) (Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281)  Enumeration and confirmation:  Enterococci  Coliforms and <i>Escherichia coli</i>  Sulphite Reducing Clostridia and <i>Clostridium perfringens</i>	Methodology meeting the requirements of The Drinking Water Testing Specification  Method M/004 based on The Microbiology of Drinking Water (2012) Part 5A  1) Method M/042 based on The Microbiology of Drinking Water (2016) Part 4B 2) Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D  Method M/007 based on The Microbiology of Drinking Water (2020) Part 6
WATERS: Waste and Effluents	<u>Chemical Tests</u>  Biological Oxygen Demand  Chemical Oxygen Demand  Suspended Solids	Documented In-House Methods:  Method W036 based on MEWAM 1981 using by colorimetry (Hach Lange system)  Method W/037 using Spectrophotometry (Hach-Lange COD Analyzer)  Method W029 using Gravimetry



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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 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		