Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

1005

Accredited to ISO/IEC 17025:2017

City of Edinburgh Council

Issue No: 064 **Issue date:** 13 November 2026

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDING STUFFS	Chemical Tests *Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDING STUFFS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
	*Vitamins A, and E	FIH064 using HPLC with UV/PDA detection
	Microbiological Tests	
	Detection and confirmation of:	
	**Salmonella* spp.	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	Chemical Tests	
	*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 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS as specified (cont'd)	Chemical Tests (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 219 using steam distillation and titration

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS as specified (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:
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
Nuts, nut products and spices	*Aflatoxins - B1, B2, G1, G2 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Chemical Tests (cont'd)	Documented In-House Methods:
FOODS and FOOD PRODUCTS unspecified (cont'd)	*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
	*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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Chemical Tests (cont'd)	Documented In-House Methods:
FOODS and FOOD PRODUCTS unspecified (cont'd)	*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	*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
(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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS as specified	Chemical Tests (cont'd)	Documented In-House Methods:
Soya based sauces	*3-monochloropran1,2 -diol (3-MCPD)	Method FIH071 using GC-MS
Spices and condiments	*Examination	Metho FVU 224 using optical microscopy
Fruit products	*Drained weight	Method FVU 052 using gravimetry
Honey	*Moisture content	Method FVU 265 using refractometer
	*Water-insoluble solids	Method FVU 266 using gravimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS unspecified unless stated	Microbiological Tests *Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625 Detection and confirmation:	Documented In-House Methods:
	**Escherichia coli* O157	Method M/041 using enrichment and immuno-magnetic separation based on BS EN ISO 16654:2001 + A2:2023
	**Listeria* spp. and *Listeria monocytogenes*	Method M/019 using enrichment based on BS EN ISO 11290-1:2017 with identification using API Listeria
	**Salmonella* spp.	Method M/018 using enrichment based on BS EN ISO 6579-1: 2017+A1:2020 with confirmation by API and serology
	Enumeration:	
	**Bacillus cereus* (presumptive)	Method M/024 using plate count PEMBA Agar
	*Enterobacteriaceae (presumptive and confirmed)	Method M/027 using plate count based on BS ISO 21528-2:2017
	*Enterococci	Method M/017 using plate count based on BS 4285-Part 3.11:1985
	**β*-glucuronidase positive *Escherichia coli*	Method M/051 using selective medium, based on BS ISO 16649-2:2001
	**Listeria* spp and *Listeria monocytogenes*	Method M/021 using enrichment and plate count based on BS EN ISO 11290-2:2017 with identification using API Listeria

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS unspecified unless stated (cont'd)	Microbiological Tests (cont'd)	Documented In-House Methods:
	Enumeration: (cont'd)	
	*Coagulase positive Staphylococci including *Staphylococcus aureus*	Method M/020 using plate count based on BS EN ISO 6888-1:2021
	*Total colony count at 30 °C	Method M/015 using pour plate count based on BS EN 4833-1:2013 +A1:2022
Shellfish (bivalve molluscan)	**β*-glucuronidase positive *Escherichia coli*	Method M/047 using MPN based on BS EN ISO 16649-3: 2015
Matrices with water activity >0.95	*Yeast and moulds	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS and FOOD PRODUCTS as specified (cont'd)	<u>Molecular Biology Tests</u> *Indicates analysis performed under Food Standards Scotland designation as an Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625 Detection of:	Documented In-House Procedure:
Bean Sprouts / Sprouted Seeds	*Presumptive Shiga Toxin Producing *Escherichia coli* 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 *Escherichia coli* (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 or Buffered Peptone Water Broth
Mince and Meat Products	* Presumptive Shiga Toxin Producing *Escherichia coli* (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 or Buffered Peptone Water Broth

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
POLLUTANTS AND EFFLUENTS:	Chemical Tests	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	Chemical Tests (cont'd)	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)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Microbiological Tests	Documented In-House Methods
	Detection and confirmation:	
Drinking waters	*Salmonella* 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
	Enumeration:	
Drinking Water, surface, ground water	Total aerobic colony count at 22 °C and 37 °C	Method M/001 based on The Microbiology of Drinking Water (2020) Part 7
Drinking waters	*Legionella spp*	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
Drinking, surface, ground water	Total coliforms and *Escherichia coli*	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
	Pseudomonas aeruginosa	Method M/010 using membrane filtration based on the Microbiology of Drinking Water (2015) Part 8

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd) Drinking, surface, ground water, closed hot and cold water systems water and spa bath water (excluding cooling tower and high bio-burden waters)	<u>Molecular Biology Tests</u> Detection of: *Legionella* species DNA	Documented In-House Procedure: Method MPCR01 using RT-PCR
WATERS (cont'd) Drinking waters (including Public and Private Water Supplies)	<u>Chemical 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) Ammonia and ammonium ions Colour Electrical conductivity Turbidity Anions: Fluoride Chloride Nitrate Nitrite Phosphate Sulphate Antimony Arsenic Lead Selenium	Documented In-House Methods: Methodology meeting the requirements of The Drinking Water Testing Specification Method W/012 using UV Spectrophotometry Method W/021 using UV Spectrophotometry Method W/004 using conductivity meter Method W/022 using Turbidity Meter Method W/024 using ion chromatography Method W042 using ICP-MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Microbiological Tests	Documented In-House Methods:
Drinking waters (including Public and Private Water Supplies) (cont'd)	Analysis for the purpose of enforcement of: - The Water Supply (Water Quality) (Scotland) Regulations 2014 - The Private Water Supplies (Scotland) Regulations 2017 (SSI2017/281)	Methodology meeting the requirements of The Drinking Water Testing Specification
	Enumeration and confirmation:	
	Enterococci	Method M/004 based on The Microbiology of Drinking Water (2012) Part 5A
	Coliforms and *Escherichia coli*	Method M/049 using Colilert based on The Microbiology of Drinking Water (2016) Part 4D
	Sulphite Reducing Clostridia and *Clostridium perfringens*	Method M/007 based on The Microbiology of Drinking Water (2021) Part 6
	Total aerobic colony count at 22 °C and 37 °C	Method M/001 based on The Microbiology of Drinking Water (2020) Part 7
WATERS: Waste and Effluents	Chemical Tests	Documented In-House Methods:
	Biological Oxygen Demand	Method W036 based on MEWAM 1981 using by colorimetry (Hach Lange system)
	Chemical Oxygen Demand	Method W/037 using Spectrophotometry (Hach-Lange COD Analyzer)
	Suspended Solids	Method W029 using Gravimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SWIMMING POOL WATERS	Chemical Tests (cont'd)	Documented In-House Methods:
	pH	Method W/003 based on SCA Method 1978 B
	Conductivity	Method W/004 based on SCA Method 1978 A
	Calcium	Method W/008 based on SCA Method 1981
	Alkalinity	Method W/010 based on SCA Method 1978 A
	Residual disinfectant: Free residual chlorine Monochloramine Dichloramine Combined Chlorine Total Residual Chlorine	Documented In-House Method W/017 based on SCA Method, 1980 (ISBN 011 7514934)
	Turbidity	Method W/022 based on SCA Method, 1981 (ISBN 011 7519553)
	Microbiological Tests	Documented In-House Methods based on The Microbiology of Drinking Water 2002
	Enumeration of:	
	Total aerobic colony count at 22°C and 37°C	Method M/001 based on the Microbiology of Drinking Water (2020) Part 7
	Total coliforms and *Escherichia coli*	M/042 using membrane filtration and chromogenic medium
	Pseudomonas aeruginosa	Method M/010 using membrane filtration based on the Microbiology of Drinking Water (2015) Part 8
END		