Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

1325

Accredited to ISO/IEC 17025:2017

Aberdeen City Council

Issue No: 063 **Issue date:** 13 October 2026

Aberdeen Scientific Services Laboratory
James Hutton Institute Building
Craigiebuckler
Aberdeen
AB15 8QH

Contact: Laura Cruickshank
Tel: +44 (0)1224 764724
E-Mail: LaCruickshank@aberdeencity.gov.uk
Website: https://www.aberdeencity.gov.uk/

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 FEEDINGSTUFFS FOOD and FOOD PRODUCTS	Chemical Tests *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series V0000 and Documented In-House Methods in the series i0000
	*Contaminants & Composition	Development and Modification of Methods for the analysis of foods using Generic In-House Procedure i3000 for the techniques GC, GC-MS, HPLC, AAS, ICP-OES, UV/Visible Spectrophotometry, Microscopy and Classical Techniques
	*Aflatoxins - B1, B2, G1 and G2 and total aflatoxins	i2308 using HPLC
	*Ash	i0003
	*Lead and Cadmium	i2560 using ICP/OES
	*Mercury	i0152 using Cold Vapour AAS
	*Moisture	i0007 oven drying
	*Nitrogen	V0013 using Digestion Block with Titanium Catalyst and Hydrogen Peroxide
	*Oil	i0215 using Gravimetry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS FOOD and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series V0000 and Documented In-House Methods in the series i0000
Animal feeding stuffs, bread and bread products	*Crude fibre	i2062 using Fibretec system
	*Vitamin A and E	i2320 using HPLC (general and statutory method)
BEVERAGES - ALCOHOLIC	*Alcoholic Strength	i0401 using Obscuration using a Pyknometer
Spirits	*Congeners	V0161 using Gas Chromatography (GC)
Fruit Juice and Soft Drinks	*Acesulfame-K, Aspartame, Benzoic Acid, Caffeine, Saccharin, Sorbic Acid	i2317 using HPLC
	*Water Soluble Synthetic Colour	i2309 using HPLC
Bread	*Moisture	V0222 using Gravimetry
DAIRY PRODUCTS; Milk	*Fat	V0008 using Gerber method
	*Apparent meat content	P1086 by calculation based on APA guidelines
	*Freezing Point	i0307 using Thermistor Cryoscope (Routine Method)
	*Titratable Acidity	V0131 using Titrimetry
FISH AND FISH PRODUCTS	*Histamine	i2324 using HPLC
	*Total Volatile Basic Nitrogen	i0065 using Steam Distillation followed by Titrimetry
	*Calculation of apparent fish content	P1086 by calculation

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ANIMAL FEEDINGSTUFFS FOOD and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series V0000 and Documented In-House Methods in the series i0000
Prawns - Frozen, Cooked and Peeled	*Ice Glaze	V0033 using Gravimetry
Soft Fruit and Vegetables	*Drained Weight	V0052 using Gravimetry
Fruit and Vegetables	*Soluble Solids	V0247 using Refractometry
HONEY and HONEY PRODUCTS	*Diastase activity	i0075
	*Electrical conductivity	i0076 using EU reference method, Method 12
	*Moisture	V0265
	*Hydroxymethylfurfural	i2310 using HPLC
MEAT, GAME and POULTRY including processed products	*L(-)Hydroxyproline	V0092
	*Nitrite	i0101 using Spectrophotometry
	*Total Volatile Nitrogen in Flesh Foods	V0157
OILS and FATS	*Free Fatty Acids -	V0010
	*n-Butyric Acid	i2101 using GC
	*Peroxide Value	V0009
FOODS, General	*Additives, Colourings, Preservatives and Related Contaminants & Composition	Development and Modification of Methods for the analysis of foods using Generic In-House Procedure i3000 for the techniques GC, GC-MS, HPLC, AAS, ICP-OES, UV/Visible Spectrophotometry, Microscopy and Classical Techniques

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS, General (Cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series V0000 and Documented In-House Methods in the series i0000
	*Acrylamide	i2172 using GC-MS
	*Aflatoxins B_1 B_2 G_1 G_2 and total aflatoxins	i2308 using HPLC
	*Ash	i0003
	*Benzoic Acid and Sorbic Acid	i2302 using HPLC
	*Calculation of Energy Value	V0381
	*Chloride (Salt as Sodium Chloride by Calculation)	i2303 using Ion Chromatography
	*Ethanol	i2103 using GC
	*Fat	1) i0014 using Acid Digestion (Werner-Schmid Method) 2) i0214 using Alkaline Hydrolysis 3) i0215 using Acid Digestion and Soxhlet Extraction 4) i0217 using Soxhlet Extraction
	Fatty Acid Profile: Saturates Mono-unsaturates Poly-unsaturates	i2151 by analysing fatty acids converted to fatty acid methyl esters using GC

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD and FOOD PRODUCTS (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series V0000 and Documented In-House Methods in the series i0000
	*Glucose, Fructose and Sucrose in Water Soluble Foods	i2311 using HPLC
	*Herbs, Spices and Vegetable Materials	V0224 by Microscopy
	*Ingredients	i0005 using Gravimetry
	*Mercury	i0152 using Cold Vapour AAS
	*Moisture	1) i0007 oven drying 2) i0008 drying on sand
	*Monosodium Glutamate	i2316 using HPLC
	*Nitrate and Nitrite	i2307 using HPLC
	*Nitrogen	V0013 by Digestion Block using Titanium Catalyst and Hydrogen Peroxide
	*pH	V0282
	*Total Sugars, Fructose, Glucose, Sucrose, Maltose and Lactose	i2318 using HPLC
	*Sodium (salt by calculation)	i2540 using ICP-OES
	*Sulphur dioxide	i2001
	*Synthetic Colours in Water Soluble Foods	i2309 using HPLC
	*Tin	i2530 using ICP-OES
	Water activity	i0085

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD and FOOD PRODUCTS (cont'd)	Microbiology Tests *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented In-House Methods in the series i0000
FOODS, General	Detection of:	
	**Listeria monocytogenes* and *Listeria* species	i6513 using selective enrichment technique based on ISO 11290-1:2017
	**Salmonella* spp	i6508 using selective enrichment technique based on ISO 6579-1:2017+A1:2020
	*Aerobic Colony Counts at 30˚C	i6101 using Plate Count Agar by pour plate Incubation for 48h
	*Aerobic Colony Counts at 30˚C	i6101 based on BS EN ISO 4833-1:2013+A1 2022
	*Aerobic Colony Counts at 30˚C	i6103 based on BS EN ISO 4833-2:2013+A1 2022
	Aerobic Colony Counts at 30˚C, 37˚C and 22˚C	i6103 using spread plate technique with Plate count agar for 48h or 72h
	Aerobic Colony Counts at 30˚C	i6104 using plate count agar at 30°C for 48h (spiral plating)
	Presumptive *Bacillus cereus*	i6502 In-house method using Chromogenic Bacillus cereus agar
	**Clostridium perfringens*	i6509 based on BS EN ISO 15213-2:2023 with in-house confirmation using lactose gelatine medium and motility nitrate medium
	*B-glucuronidase positive *Escherichia coli*	i6403 In-house method using spread plate technique with TBX agar

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOD and FOOD PRODUCTS (cont'd)	Microbiology Tests *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Documented In-House Methods in the series i0000
General Foods Including Dairy and Milk Products	*Enterobacteriaceae, confirmed	i6505 using pour plate technique In house screening method based on ISO 21528-2:2017
	*Coagulase-positive staphylococci	i6507 based on BS EN ISO 6888-1:2021+A1:2023 with confirmation using Staphytect plus latex kit and DNase agar
	**Listeria monocytogenes* and *Listeria* species	i6510 based on BS EN ISO 11290-2:2017 with confirmation using oxidase, catalase, gram stain and Gold Standard Diagnostics Microgen- ID
Dairy and Milk Products	*Coliforms, confirmed	i6406 using pour plate technique based on BS ISO 4832:2006
	*Aerobic Colony Counts at 30˚C	i6001 based on BS EN ISO 4833-1:2013+A1 2022

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	Chemical and Physical Tests	Documented In-House Methods in the series i0000 as listed below
Surface and Ground waters	Metals Antimony Arsenic Barium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Sodium Tin Titanium Vanadium Zinc Total Hardness by Calculation	i4524 using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Surface and Ground waters (cont'd)	Ammonium	i4520 using Hach "sealed tube" Spectrophotometry
	Chloride Nitrate Sulphate Phosphate	i4102 using Ion Chromatography
	Nitrite	i4104 by Spectrophotometry
	pH	i4203 using pH Meter
	Suspended Solids	i4512 using gravimetry
Ground Water and Landfill Leachates	Total Organic Carbon (TOC)	i4521 using Hach "sealed tube" Spectrophotometry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (Cont'd)	Chemical and Physical Tests (cont'd)	Documented In-House Methods in the series i0000 as listed below
Landfill Leachates	Antimony Arsenic Barium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Sodium Tin Titanium Vanadium Zinc Total Hardness by Calculation	i4524 using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
	Ammonium	i4520 using Hach "sealed tube" Spectrophotometry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	<u>Chemical Tests</u>	Methodology meeting the requirements of The Natural Mineral Water, Spring Water and Bottled Drinking Water (Including Scotland) (No.2) Regulations 2007
Landfill Leachates (cont'd)	Chloride Nitrate Sulphate	i4102 using Ion Chromatography
	Suspended Solids	i4512 using gravimetry
	Nitrite	i4104 by Spectrophotometry
	pH	i4203 using pH Meter
Surface Water, Ground Water and Landfill Leachates	COD	i4519 using Hach "sealed tube" Spectrophotometry
Drinking Water (non-regulatory)	Metals: Aluminium Boron Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Nickel Potassium Sodium Zinc Total Hardness by Calculation	i4523 Metals by ICP-OES
	Ammonium	i4520 using Hach "sealed tube" Spectrophotometry
	Chloride Nitrate Phosphate Sulphate	i4102 using Ion Chromatography
	Colour	i4208 using Spectrophotometry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Chemical Tests (cont'd)	Methodology meeting the requirements of The Natural Mineral Water, Spring Water and Bottled Drinking Water (Including Scotland) (No.2) Regulations 2007
Drinking Water (non-regulatory) (cont'd)	Conductivity	i4204 using conductivity meter
	Nitrite	i4104 using Spectrophotometry
	pH	i4203 using pH meter
	Turbidity	i4205 by Nephelometry
Bottled Water	pH	i4203 using pH meter
Swimming Pool Water	pH	i4203 using pH meter
	Total, Combined and Free Chlorine	i4219 using titrimetry
WATERS	Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), The Water Intended for Human Consumption (Private Supplies) (Scotland) Regulation 2017 and The Public Water Supplies (Scotland) Regulation 2014 Chemical Tests	Methodology meeting the requirements of The Drinking Water Testing Specification
Drinking Water	pH	i4203 using pH meter
Drinking Water	Turbidity	i4205 by Nephelometry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), The Water Intended for Human Consumption (Private Supplies) (Scotland) Regulation 2017 and The Public Water Supplies (Scotland) Regulation 2014	Methodology meeting the requirements of The Drinking Water Testing Specification
WATERS	<u>Microbiology Tests</u> Enumeration:	Documented In house methods based on/incorporating published procedures in The Microbiology of Drinking Water (MDW)
Private water supplies Drinking waters (including Public water supplies)	Heterotrophic Colony Count	i7001 using pour plate technique based on MDW (2020) Part 7A
	Coliforms (confirmed) *Escherichia coli* (confirmed)	i7404 using Colilert based on MDW (2016) Part 4D
	Sulphite-Reducing Clostridia and *Clostridium perfringens*	i7602 using membrane filtration based on MDW (2021) Part 6
	Enterococci	i7604 using membrane filtration based on MDW (2012) Part 5A
Raw, drinking and recreational waters	Heterotrophic Colony Count	i7001 using pour plate technique based on MDW (2020) Part 7A
Raw, drinking and recreational waters	Total Coliforms and *Escherichia coli*	i7404 using Colilert based on MDW (2016) Part 4D
Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)	Total Coliforms and *Escherichia coli*	i7401 using membrane filtration based on MDW (2016) Part 4A
Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)	*Pseudomonas aeruginosa*	i7601 using membrane filtration based on MDW (2015) Part 8
Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)	Sulphite-Reducing Clostridia and *Clostridium perfringens*	i7602 using membrane filtration based on MDW (2021) Part 6

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), The Water Intended for Human Consumption (Private Supplies) (Scotland) Regulation 2017 and The Public Water Supplies (Scotland) Regulation 2014	Methodology meeting the requirements of The Drinking Water Testing Specification
WATERS	Microbiology Tests (cont'd) Enumeration: (cont'd)	Documented In house methods based on/incorporating published procedures in The Microbiology of Drinking Water (MDW)
Raw, drinking and recreational waters, bottled spring and mineral water (still and sparkling)	Enterococci	i7604 using membrane filtration based on MDW (2012) Part 5A
ATMOSPHERIC POLLUTANTS	Chemical Tests	Documented In-House Methods in the series i0000
Air	Nitrogen Dioxide	i8001 using Spectrophotometry
END		