

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>1639 Accredited to ISO/IEC 17025:2017</p>	<h3>Tayside Scientific Services</h3> <p><b>Issue No:</b> 066 <b>Issue date:</b> 19 December 2025</p> <table><tr><td>James Lindsay Place Dundee Technopole Dundee DD1 5JJ</td><td><b>Contact:</b> Mr M Kierszten <b>Tel:</b> +44 (0)1382 307170 <b>Fax:</b> +44 (0)1382 202085 <b>E-Mail:</b> michael.kierszten@dundee.gov.uk <b>Website:</b> www.dundee.gov.uk</td></tr></table>	James Lindsay Place Dundee Technopole Dundee DD1 5JJ	<b>Contact:</b> Mr M Kierszten <b>Tel:</b> +44 (0)1382 307170 <b>Fax:</b> +44 (0)1382 202085 <b>E-Mail:</b> michael.kierszten@dundee.gov.uk <b>Website:</b> www.dundee.gov.uk
James Lindsay Place Dundee Technopole Dundee DD1 5JJ	<b>Contact:</b> Mr M Kierszten <b>Tel:</b> +44 (0)1382 307170 <b>Fax:</b> +44 (0)1382 202085 <b>E-Mail:</b> michael.kierszten@dundee.gov.uk <b>Website:</b> www.dundee.gov.uk		
<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 FEEDINGSTUFFS	<p><u>Chemical Tests</u></p> <p>* Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>*Compositional Analysis, Additives, colourings, preservatives and related contaminants</p> <p>*Determination of Elements</p> <p>*Foreign Body identification</p> <p>*Compositional Analysis, Additives, colourings, preservatives and related contaminants</p>	<p>Documented In-House Methods identified by method number</p> <p>Development and modification of methods for analysis using Flexible Scope Procedure PFG 1 (HPLC, GC, GC-MS and UV spectroscopy)</p> <p>Development and modification of methods for analysis using Flexible Scope Procedure PFG 2 (AAS and ICP-OES)</p> <p>Development and modification of methods for analysis using Flexible Scope Procedure PFG 3 (Light Microscopy)</p> <p>Development and modification of methods for analysis using Flexible Scope Procedure PFG 4 (Gravimetric, titrimetric and other classical wet chemistry techniques)</p>



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ANIMAL FEEDINGSTUFFS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>*Aflatoxin B1, B2, G1, G2 and Ochratoxin A</p> <p>*Deoxynivalenol</p> <p>*Zearalenone</p> <p>*Ash</p> <p>*Crude Fibre</p> <p>*Moisture</p> <p>*Oil (total)</p> <p>*Nitrogen and Protein (by calculation)</p> <p>*Nitrogen and Protein (by calculation)</p> <p>*Vitamins A and E</p> <p>*Cobalt *Copper *Iron *Manganese *Zinc</p> <p>*Cadmium *Lead</p> <p>*Arsenic *Selenium</p>	<p>Documented In-House Method identified by method number</p> <p>PF099 by HPLC fluorescence with Kobra Cell</p> <p>PF091 by immunoaffinity column separation and HPLC</p> <p>PF088 by immunoaffinity column separation and HPLC</p> <p>GA008 based on EC152/2009</p> <p>GA010 based on EC152/2009</p> <p>GA002 by oven drying based on EC152/2009</p> <p>GA004 based on EC152/2009</p> <p>PF082 using the Dumas Combustion method</p> <p>PF016 using Kjeldahl based on BS ISO 937:2023</p> <p>PF061 using High Performance Liquid Chromatography</p> <p>GA013 using Flame Atomic Absorption Spectrometry</p> <p>GA012 using Flame Atomic Absorption Spectroscopy</p> <p>GA014 using Hydride Generation Atomic Absorption Spectrometry</p>



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FOODS	<u>Chemical Tests</u> (cont'd)  *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Methods documented in 'Analytical Methods Manual for VEMS' Association of Public Analysts and identified by method number or Documented In-House Methods identified by method number PFx
Bakery wares e.g. bread, toasted bread, crisp bread and biscuits, potato products e.g. potato chips and crisps	*Acrylamide	PF105 by GC-MS
DAIRY PRODUCTS	*Fat	PF092 by alkaline hydrolysis (Rose Gottlieb method)
Cream	*Acidity (titratable)	F/0251 by titration
Milk, Liquid	*Fat  *Acidity (titratable)  *Antibiotics  *Fat  *Freezing Point  *Total solids	F/0216 by Gerber technique  VEMS F/0131  PF070 using Delvo kit  F/0008 using Gerber technique  PF008 using Thermistor Cryoscope  PF057 using Gravimetry
FAT	*Butyric acid	F/0289 by gas chromatography
Food Products, FATS and OILS	*Peroxide value	F/0009 by titration
FATS and OILS	*Fatty acid profile	PF 051 GC/FID (analysis of fatty acids converted to fatty acid methyl esters )
Food Products, FATS and OILS	*Free fatty acids	F/0010 by titration
FISH - FRESH and FROZEN, FISH PRODUCTS and PROCESSED FISH	*Ash	PF012 by muffle furnace



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FOODS (cont'd)	<u>Chemical Tests</u> (cont'd)  *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Methods documented in 'Analytical Methods Manual for VEMS' Association of Public Analysts and identified by method number or Documented In-House Methods identified by method number PFx
FISH - FRESH and FROZEN, FISH PRODUCTS and PROCESSED FISH	*Fat *Moisture  *Histamine	PF002 by oven drying and Soxhlet Extraction  PF117 by HPLC based on ISO 19343:2017
BREAD	*Propionic Acid	PF049 by Gas Chromatography (GC)
HONEY	*Hydroxymethyl furfural  *Identification of Pollen Grains	PF046 by HPLC  PF045 by light microscopy
SPIRITS	*Moisture  *Apparent and Actual Alcohol	F/0265 by refractometry  1) PF021 by Pycnometry and Obscuration (Reference Method) 2) PF019 by density meter and Obscuration (Primary Method)
MEAT - FRESH and FROZEN MEAT PRODUCTS and PROCESSED MEAT	*Congeners  *Ash  *Fat and Moisture  *Nitrogen and crude protein (by calculation)  *Nitrogen and protein (by calculation)	F/0161 by Gas Chromatography  PF012 by muffle furnace  PF002 by oven drying and Soxhlet extraction  PF082 by Dumas  PF016 using Kjeldahl based on BS ISO 937:2023
FLESH FOODS and MEAT PRODUCTS	*Total volatile nitrogen	F/0157 by Distillation followed by titration



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FOODS (cont'd)	<u>Chemical Tests</u> (cont'd)  *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Methods documented in 'Analytical Methods Manual for VEMS' Association of Public Analysts and identified by method number or Documented In-House Methods identified by method number PFx
MEAT and MEAT PRODUCTS	*Hydroxyproline	PF011 based on BS 4401:Part 11:1995
FISH AND FISH PRODUCTS	*Calculation of apparent fish content	PF017 by calculation
SOFT DRINKS	*Acesulfame K Aspartame Benzoic acid Caffeine Saccharin Sorbic acid	PF023 by HPLC
SOYA SAUCE	*3-monochloropropane-1,2-diol	PF100 by gas Chromatography with Mass Spectrometric detection (GC/MS) based on BS EN 14573:2004
FOODS, General	*Compositional Analysis, Additives, colourings, preservatives and related contaminants  *Determination of Elements  *Foreign Body identification  *Compositional Analysis, Additives, colourings, preservatives and related contaminants	Development and modification of methods for analysis using Flexible Scope Procedure PFG 1 (HPLC, GC, GC-MS and UV spectroscopy)  Development and modification of methods for analysis using Flexible Scope Procedure PFG 2 (AAS and ICP-OES)  Development and modification of methods for analysis using Flexible Scope Procedure PFG 3 (Light Microscopy)  Development and modification of methods for analysis using Flexible Scope Procedure PFG 4 (Gravimetric, titrimetric and other classical wet chemistry techniques)



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FOODS, General (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>*Ash      ]</p> <p>*Moisture      ]</p> <p>*Arsenic, Total and inorganic</p> <p>*Calcium</p> <p>*Chloride, *Salt as Sodium Chloride (calculation), *Salt in Aqueous Phase (Calculation)</p> <p>*Dietary Fibre</p> <p>*Ethanol</p> <p>*Fat (total)</p> <p>*Aflatoxin B1, B2, G1, G2 and Ochratoxin A</p> <p>*Deoxynivalenol</p> <p>*Synthetic Food Colour (Water soluble): Allura Red (E129) Amaranth (E123) Brilliant Blue (BFCF) Carmoisine (E122) Green S Patent Blue (E131) Ponceau 4R (E124) Quinoline Yellow FCF (E104) Red 2G (E128) Sunset yellow ( E110) Tartrazine (E102)</p>	<p>Methods documented in 'Analytical Methods Manual for VEMS' Association of Public Analysts and identified by method number or Documented In-House Methods identified by method number PFx</p> <p>PF012 by gravimetry</p> <p>PF107 by Hydride Generation Atomic Absorption</p> <p>VEMS F/0183</p> <p>PF078 using Ion Chromatography</p> <p>PF027 by enzymatic digestion and gravimetry</p> <p>PF058 by GC-FID</p> <p>PF005 by acid digestion/extraction</p> <p>PF099 by HPLC fluorescence with Kobra Cell</p> <p>PF091 by immunoaffinity column separation and HPLC</p> <p>PF087 by HPLC-DAD</p>
FOODS, Water soluble (soft drinks, sugar confectionery)		



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FOODS, General (cont'd)	<u>Chemical Tests</u> (cont'd)  *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625	Methods documented in 'Analytical Methods Manual for VEMS' Association of Public Analysts and identified by method number or Documented In-House Methods identified by method number PFx
FOODS, General	*Zearalenone  *Allergens, Contaminants and Protein Species  *Gluten  *Nitrate and Nitrite  *Nitrogen and Protein (by calculation)  *Nitrogen and Protein  *pH  *Sodium  *Soluble Solids in food  *Sorbic acid  *Sugars: (Total and Fructose, Galactose, Glucose, Lactose, Maltose, Sucrose)  *Sulphur Dioxide  *Cadmium and Lead  *Tin	PF088 by immunoaffinity column separation and HPLC  PF069 - Flexible Scope method for performance verification and use of commercial ELISA test kits  PF116 – by ELISA using the R-Biopharm RIDASCREEN R7001 and R7002 test kits  PF033 by HPLC  PF082 using the Dumas Combustion method  PF016 using Kjeldahl based on BS ISO 937:2023  PF065 based on VEMS F0282  PF052 by Flame Emission Spectrophotometry  PF 079 using refractometry  PF050 by HPLC  PF022 by HPLC with Refractive Index detection  PF060 using Gravimetric weighing  PF085 using ashing followed by ICP-OES  VEMS F/0134 using acid digestion followed by Flame AAS



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FOODS, General (cont'd)	<u>Chemical Tests</u> (cont'd)  *Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625  *Vitamins A and E *Vitamin C *Water activity *Apparent meat content *Energy value	Documented In-House Methods identified by method number PFx  PF061 using HPLC PF074 using HPLC PF053 by hygrometer PF056 based on APA guidelines F/0381 by calculation from analytical data
FOODS (as specified)	<u>Molecular Tests</u>	
MEAT and MEAT PRODUCTS	*Species identification (qualitative) beef pork lamb horse chicken turkey	PF098 using RT-PCR
FISH and FISH PRODUCTS	*Species identification (qualitative)	PF094 using PCR-RFLP and Agilent 2100 Bioanalyser
Animal Feeding Stuffs, Foods and Waters	*Detection and/or determination of DNA sequences for speciation, genetically modified organisms (GMO's), allergens and microorganisms	Development and modification of methods for analysis using Flexible Scope Procedure PFG5 (PCR, qPCR, PCR-RFLP)
DIFFUSION TUBE SAMPLERS	<u>Chemical Tests</u>  Nitrogen dioxide	Documented In-House Methods  PE002 by spectrophotometry



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FOODS, General	<p><u>Microbiological Tests</u></p> <p>*Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>Detection:</p> <p>*<i>Campylobacter</i> spp</p> <p>*<i>Escherichia coli</i> O157</p> <p>*<i>Listeria monocytogenes</i></p> <p>*<i>Salmonella</i> species</p> <p>*Shiga Toxin-Producing <i>Escherichia coli</i> (Presumptive)</p> <p>Enumeration:</p> <p>*<i>Listeria monocytogenes</i> and other <i>Listeria</i> spp</p> <p>*Yeast and Moulds</p>	<p>Documented In-House Methods identified by method number PMFx based on/incorporating published procedures referenced by BS EN ISO Methods</p> <p>PMF025 based on ISO 10272-1:2017 + AMD 1:2023</p> <p>PMF014 based on BS EN ISO 16654:2001 + A2:2023</p> <p>PMF024 based on BS EN ISO 11290-1:2017</p> <p>PMF009 based on BS EN ISO 6579-1:2017 AMD 1 :2020</p> <p>PMF029 based on CEN ISO/TS 13136:2012 by Multiplex Real-Time PCR using Life Technologies extraction and PCR test kit and Agilent MX3005 analyser</p> <p>PMF021 based on BS EN ISO 11290-2:2017</p> <p>PMF027 based on ISO 21527Parts 1 &amp; 2: 2008</p>
Ready-to-eat prepared foods	<p>*Aerobic Colony Count at 30°C</p> <p>*<i>Bacillus cereus</i></p> <p>*<i>Clostridium perfringens</i></p>	<p>PMF015 using Plate count agar at 30°C for 48 hours using spiral plating technique</p> <p>PMF011 based on BS EN ISO 7932:2004 AMD 1:2020</p> <p>PMF008 based on BS EN ISO 15213-2:2023</p>



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FOODS, General (cont'd)	<p><u>Microbiological Tests</u> (cont'd)</p> <p>*Indicates analysis performed under Food Standards Scotland designation as Official Laboratory in accordance with assimilated European law AEUL OCR 2017/625</p> <p>Enumeration (cont'd):</p> <p>*Enterobacteriaceae</p> <p>*<i>Escherichia coli</i></p> <p>*Coagulase positive Staphylococci (including <i>Staphylococcus aureus</i>)</p>	<p>Documented In-House Methods identified by method number PMFx based on/incorporating published procedures referenced by BS EN ISO Methods</p> <p>PMF023 using Pour Plate based on BS EN ISO 21528-2:2017</p> <p>PMF004 based on ISO 16649-2:2001 using surface spread technique</p> <p>PMF006 based on BS EN ISO 6888-1:2021 + AMD 1 :2023</p>
Shellfish	* <i>Escherichia coli</i>	PMF026 using MPN based on ISO 16649-3:2015



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WATERS  Drinking waters (Non Regulatory), Raw Water and Recreational Water  Swimming pool, Spa pool, , Drinking water (Non Regulatory), (excluding Natural Mineral and Bottled Waters)  Drinking (Non Regulatory) Recreational (man made)	<u>Microbiological Tests</u>  Enumeration: Total coliforms and <i>Escherichia coli</i>  Enterococci  Total Colony Count at 22 °C and 37 °C  <i>Pseudomonas aeruginosa</i>  <i>Campylobacter</i> spp  <i>Legionella</i> spp  <u>Molecular Tests</u>  Detection and Quantification of DNA from <i>Legionella pneumophila</i>	Documented in house methods based on the Microbiology of Drinking Waters  PMW008 based on the Microbiology of Drinking Water (2016):Part 4D using the colilert system  PMW009 based on the Microbiology of Drinking Water 2012:Part 5B using EnterolertTM  PMW003 based on the Microbiology of Drinking Water (2020):Part 7A using YEA pour plate  PMW010 MPN using Pseudalert at 38°C based on MDW 2015 Part 8 Method C  PMF025 based in ISO 10272-1:2017 + AMD 1:2023  PMW002 based on ISO 11731: 2017 Matrix A & B. Procedure 8, 9, 10  Documented In-House Methods identified by method number PMWx, based on International Standards  PMW011 based on ISO/TS 12869:2019 by Real-Time PCR using filtration, Aquadien DNA Extraction Kit, Bio-Rad iQ Check Test Kit and Agilent MX3005 analyser



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Waters (cont'd)	Molecular Tests (cont'd)  Detection of:	Documented in house methods
Drinking (Non Regulatory)	Shiga Toxin-Producing <i>Escherichia coli</i> (Presumptive)	PMF029 based on CEN ISO/TS 13136:2012 by Multiplex Real-Time PCR using Life Technologies extraction and PCR test kit and Agilent MX3005 analyser
END		