


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Tayside Scientific Services</h3> <p>Issue No: 053 Issue date: 13 February 2019</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number GAX based on SI 1999, No 1663 'The Feedingstuffs (Sampling and Analysis) Regulations
	Additives, colourings, preservatives and related contaminants	Development and modification of methods and analysis for food enforcement purposes using the Generic In-House Procedures PFG1 (HPLC, GC, UV-spectroscopy), PFG2 (AAS and ICP-OES), PFG3 (Microscopy) and PFG4 (gravimetric, titrimetric and other wet chemical techniques)
	Composition	
	Aflatoxin B1, B2, G1, G2 and Ochratoxin A	PF099 by HPLC fluorescence with Kobra Cell
	Deoxynivalenol	PF091 by immunoaffinity column separation and HPLC
	Zearalenone	PF088 by immunoaffinity column separation and HPLC
	Ash	GA008 based on EC152/2009
	Crude Fibre	GA010 based on EC152/2009
	Moisture	GA002 by oven drying based on EC152/2009
	Oil (total)	GA004 based on EC152/2009 Documented In-House Method identified by method number



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ANIMAL FEEDINGSTUFFS (cont'd)	<u>Chemical Tests (cont'd)</u> Nitrogen and crude protein Nitrogen and Protein Aflatoxins B ₁ , B ₂ , G ₁ and G ₂ Vitamins A and E Cobalt Copper Iron Manganese Zinc Cadmium Lead Arsenic Selenium <u>Health and Hygiene</u>	PG001 by Kjeldahl PF082 using the Dumas Combustion method PF059 using immuno-affinity column for clean-up followed by HPLC/Fluorescence detection PF061 using High Performance Liquid Chromatography GA013 using Flame Atomic Absorption Spectrometry GA012 using Flame Atomic Absorption Spectroscopy GA014 using Hydride Generation Atomic Absorption Spectrometry
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House procedure, PE007 using stereo-microscopy, polarised light microscopy and dispersion staining



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FOODS	<u>Chemical Tests</u>	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)
Cheese	Histamine	PF044 using HPLC
Cream	Acidity (titratable)	F/0251 by titration
	Fat	F/0216 by Gerber technique
Ice cream	Fat	PF090 based on BS ISO 2446:2008 using Gerber.
Milk, Liquid	Acidity (titratable)	VEMS F/0131
	Antibiotics	PF070 using Delvo kit
	Fat	F/0008 using Gerber technique
	Freezing Point	PF008 using Thermistor Cryoscope
	Phosphatase Activity	PF071 using Fluorophos
	Total solids	PF057 using Gravimetry
FAT	Butyric acid	F/0289 by gas chromatography
FATS and OILS	Peroxide value	F/0009 by titration
	Fatty acid profile	PF 051 GC/FID (analysis of fatty acids converted to fatty acid methyl esters)
	Free fatty acids	F/0010 by titration



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FOODS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Fish and fish products	Histamine	PF044 using HPLC
FISH - FRESH and FROZEN, FISH PRODUCTS and PROCESSED FISH	Ash Fat Moisture	PF012 by muffle furnace PF002 by oven drying and Soxhlet extraction
FLOUR PRODUCTS		
Bread	Moisture Propionic acid	F/0222 oven drying PF049 by Gas chromatography (GC)
HONEY	Hydroxymethyl furfural Identification of Pollen Grains Moisture	PF046 by HPLC PF045 by light microscopy F/0265 by refractometry
SPIRITS	Apparent and Actual Alcohol Congeners	1) PF021 by Pycnometry and Obscuration (Reference Method) 2) PF019 by density meter and Obscuration (Primary Method) F/0161 by Gas Chromatography
MEAT - FRESH and FROZEN MEAT PRODUCTS and PROCESSED MEAT	Ash Fat Moisture Nitrogen and crude protein	PF012 by muffle furnace PF002 by oven drying and Soxhlet extraction PF016 by Kjeldahl
FLESH FOODS and MEAT PRODUCTS	Total volatile nitrogen Hydroxyproline Calculation of apparent fish content	F/0157 by Distillation followed by titration PF011 based on BS 4401:Part 11:1995 PF017 by calculation



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FOODS (cont'd)	<u>Chemical Tests</u> (cont'd)	
NUTS AND NUT PRODUCTS GRAINS AND SEEDS	Aflatoxins B ₁ , B ₂ , G ₁ and G ₂	PF059 using immuno-affinity column for clean-up followed by HPLC/Fluorescence detection
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 Spectroscopic detection (GC/MS) based on BS EN 14573:2004
FOODS, General	Additives, colourings, preservatives and related contaminants	Development and modification of methods and analysis for food enforcement purposes using the Generic In-House Procedures PFG1 (HPLC, GC, UV-spectroscopy), PFG2 (AAS and ICP-OES), PFG3 (Microscopy) and PFG4 (gravimetric, titrimetric and other wet chemical techniques)
	Composition	
	Ash Moisture]	PF012 by gravimetry
	Arsenic, Total and inorganic	PF107 by Hydride Generation Atomic Absorption
	Calcium	VEMS F/0183
	Chloride	PF078 using Ion Chromatography
	Dietary Fibre	PF027 by enzymatic digestion and gravimetry
	Ethanol	PF058 by GC-FID



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FOODS, General (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS, Water soluble (soft drinks, sugar confectionery)	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)	PF087 by HPLC-DAD
FOODS, General	Fat (total)	PF005 by acid digestion/extraction
	Aflatoxin B1, B2, G1, G2 and Ochratoxin A	PF099 by HPLC fluorescence with Kobra Cell
	Deoxynivalenol	PF091 by by immunoaffinity column separation and HPLC
	Zearalenone	PF088 by immunoaffinity column separation and HPLC
	Allergens, Contaminants and Protein Species	PF069 - Generic method for performance verification and use of commercial ELISA test kits
	Gluten	PF116 – by ELISA using the R-Biopharm RIDASCREEN R7001 and R7002 test kits
	Nitrate and Nitrite	PF033 by HPLC
	Nitrogen and crude protein	PF016 by Kjeldahl
	Nitrogen and Protein	PF082 using the Dumas Combustion method
	pH	PF065 based on VEMS F0282
	Sodium	PF052 by Flame Emission Spectrophotometry
	Soluble Solids in food	PF 079 using refractometry



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FOODS, General (cont'd)	<u>Chemical Tests</u> (cont'd)	
	Sorbic acid	PF050 by HPLC
	Sugars: (Total and Fructose, Galactose, Glucose, Lactose, Maltose, Sucrose)	PF022 by HPLC with Refractive Index detection
	Sulphur Dioxide	PF060 using Gravimetric weighing
	Cadmium and Lead	PF085 using ashing followed by ICP-OES
	Tin (except baby foods, infant formulae and dietary foods intended for infants)	VEMS F/0134 using acid digestion followed by Flame Atomic Absorption Spectrophotometry
	Vitamins A and E	PF061 using High Performance Liquid Chromatography
	Vitamin C	PF074 using HPLC
	Water activity	PF053 by hygrometer
	Apparent meat content	PF056 based on APA guidelines
	Energy value	F/0381 by calculation from analytical data
	MEAT and MEAT PRODUCTS	<u>Molecular Tests</u>
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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOODS, General (cont'd)	<u>Microbiological Tests</u>	Documented In-House Methods identified by method number PMFx based on/incorporating published procedures referenced by BS EN ISO Methods
	Detection:	
	<i>Campylobacter</i> spp	PMF025 based on ISO 10272-1:2017
	<i>Escherichia coli</i> O157	PMF014 based on BS EN ISO 16654:2017
	<i>Listeria monocytogenes</i>	PMF024 based on BS EN ISO 11290-1:2017
	<i>Salmonella</i> species	PMF009 based on BS EN ISO 6579-1:2017
FOOD, general	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
	Enumeration of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp	PMF021 based on BS EN ISO 11290:2017
	Enumeration of Yeasts and Moulds	PMF027 based on ISO 21527Parts 1 & 2: 2008
	Isolation and Enumeration:	
Ready-to-eat prepared foods	Aerobic Colony Count at 30°C	PMF015 using Plate count agar at 30°C for 48 hours using spiral plating technique
	<i>Bacillus cereus</i>	PMF011 based on BS EN ISO 7932:1998
	<i>Clostridium perfringens</i>	PMF008 based on ISO 7937:2004
	Enterobacteriaceae	PMF023 using Pour Plate based on BS EN ISO 21528-2:2017



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FOODS, General (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number PMFx based on/incorporating published procedures referenced by BS EN ISO Methods
Ready-to-eat prepared foods (cont'd)	Isolation and Enumeration (cont'd): <i>Escherichia coli</i>	PMF004 based on ISO 16649-2:2001 using surface spread technique
Shellfish	Coagulase positive Staphylococci (including <i>Staphylococcus aureus</i>) <i>Escherichia coli</i>	PMF006 based on BS EN ISO 6888-1:1999 PMF026 using MPN based on ISO 16649-3:2015
PLASTIC PACKAGING MATERIALS and MATERIALS IN CONTACT WITH FOODS	<u>Chemical Tests</u> Overall Migration into Aqueous Food Simulants by Total Immersion Overall Migration into Aqueous Food Simulants by Article Filling	Documented In-House Methods PF081 based on BS EN 1186-1:2002 and BS EN 1186-3:2002 using gravimetric weighing PF080 based on BS EN 1186-1:2002 and BS EN 1186-9:2002 using gravimetric weighing
WATERS	Examination for the purpose of enforcement of The Private Water Supplies (Scotland) Regulations 2006 (SI 2006/209), and Examination for the purpose of enforcement of The Public Water Supplies (Scotland) Regulations 2014 (SI 2014/364)	Methodology meeting the requirements of The Drinking Water Testing Specification
Private water supplies Drinking waters	Ammonia Chloride, Nitrate, Nitrite Colour Conductivity	PW034 using spectrophotometry PW026 using Ion Chromatography PW036 using Colorimetry PW013 using using conductivity meter



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WATERS (cont'd) Private water supplies Drinking waters (cont'd)	<u>Chemical Tests</u> Conductivity Iron, Manganese, Aluminium, Copper, Zinc Boron, Sodium, Sulphur (& Sulphate by calculation) Cadmium, Chromium, Nickel Lead pH pH Turbidity	Documented In-House Methods PW044 using Radiometer auto-analyser PW040 using ICP-OES PW041 using ICP-OES PW042 using ICP-OES PW008 using Electrothermal AAS PW015 using pH meter PW043 using Radiometer auto-analyser PW007 using Turbidity Meter
WATERS Private water supplies Drinking waters	<u>Microbiological Tests</u> Enumeration of: Total coliforms and <i>Escherichia coli</i> Total coliforms and <i>E Coli</i> Detection and enumeration of enterococci Isolation and enumeration of sporulated sulphite-reducing Clostridia and <i>Clostridium perfringens</i>	Documented In-House Methods PMW008 based on the Microbiology of Drinking Water (2016):Part 4D using the colilert system PMW001 based on the Microbiology of Drinking Water (2016):Part 4A using membrane filtration PMW009 based on the Microbiology of Drinking Water 2012:Part 5B using Enterolert™ PMW007 based on The Microbiology of Drinking Water 2010:Part 6 using membrane filtration



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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods
Private water supplies Drinking waters (cont'd)	Enumeration of (cont'd): Total Colony Count at 22 °C and 37 °C	PMW003 based on the Microbiology of Drinking Water (2012):Part 7A using YEA pour plate
WATERS	<u>Chemical Tests and Physical Tests</u>	Documented In-House Methods identified by method number PWx based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year
Raw, drinking and recreational waters	Alkalinity	PW018 ISBN 011 751 601 5, 1981
	Conductivity	PW013 ISBN 011 751 428 4, 1978
	Hardness, total	PW014 ISBN 011 751 600 7, 1981
	pH	PW015 ISBN 011 751 428 4, 1978
	Turbidity	PW007 ISBN 011 751 955 3, 1981
	Aluminium, Copper, Iron, Manganese, Zinc	PW040 using ICP-OES
	Cadmium, Chromium, Cobalt, Lithium, Molybdenum, Nickel, Strontium, Silver	PW042 using ICP-OES



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WATERS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods identified by method number PWx based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year
Raw, drinking and recreational waters (cont'd)	Barium, Boron, Calcium, Magnesium, Potassium, Phosphorus, Sodium, Sulphur Total Hardness & Sulphate by calculation	PW041 using ICP-OES
	Lead	PW008 based on ISBN 011 752 003 9, 1987 and ISBN 011 752 095 0, 1988 by Electrothermal AAS
Drinking water	Free chlorine	PW047 by colourimetry
	Chlorine, total	PW048 by colourimetry
Raw, drinking, recreational waters and wastewaters	Chloride Fluoride Nitrate Nitrite Sulphate	PW026 ISBN 011 752 331 3, 1990 using Ion Chromatography
Drinking, ground waters and landfill leachates	Alkalinity	PW046 by titration using Radiometer auto-analyser
	Conductivity	PW044 using Radiometer auto-analyser
	pH	PW043 using Radiometer auto-analyser
	Total organic carbon	PW039 using sealed tube methodology



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WATERS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods identified by method number PWx based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year
WASTEWATERS Untreated and treated domestic and industrial wastewaters and leachates	Cadmium Copper Iron Lead Manganese Nickel Zinc Calcium Chromium Magnesium Potassium Sodium Alkalinity (total) Ammonia Biochemical Oxygen Demand (5 day) Chemical Oxygen Demand Conductivity pH Phosphate	PW027 by Flame Atomic Absorption Spectrophotometer PW005 using Flame Atomic Absorption Spectrophotometer PW028 by Flame Atomic Absorption Spectrophotometer PW005 using Flame Atomic Absorption Spectrophotometer PW032 using Flame Atomic Absorption Spectrophotometer PW018 using Titrimetry PW034 using spectrophotometry PW011 ISBN 011 752 212 0, 1988 PW033 ISBN 011 751 915 4, 1986 PW013 using conductivity meter ISBN 011 751 428 4, 1978 PW015 ISBN 011 751 428 4, 1978 PW026 ISBN 011 752 331 3, 1990 using Ion Chromatography



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WATERS (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-House Methods identified by method number PWx based on/incorporating published procedures in the HMSO series 'Methods for the Examination of Water and Associated Materials' referenced by ISBN number and year
Untreated and treated domestic and industrial wastewaters and leachates (cont'd)	Solids, suspended	PW016 ISBN 011 751 957 X, 1980
WATERS	<u>Microbiological Tests</u>	
Raw, drinking and recreational waters	Isolation and Enumeration: <i>Coliforms and Escherichia coli</i>	1) PMW001 based on MDW 2016, Part 4A 2) PMW008 based on the Microbiology of Drinking Water (2016): Part 4D using the colilert system
	Colony Count at 22° and 37°	PMW003 based on MDW 2012, Part 7A using YEA pour plate
	Enterococci	PMW009 based on MDW 2012 Part 5B using Enterolert
WATERS Swimming pool Spa pool Drinking water supplies Drinking water (excluding Natural Mineral and Bottled Waters)	Enumeration of: <i>Pseudomonas aeruginosa</i>	PMW010 MPN using Pseudalert at 38°C
	Detection: <i>Campylobacter</i> spp	PMF025 based in ISO 10272-1:2017
	<i>Legionella</i> spp	PMW002 based on ISO 11731: 2017 Matrix A & B. Procedure 8, 9, 10.



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WATERS (cont'd)	<u>Molecular Tests</u>	Documented In-House Methods identified by method number PMWx, based on International Standards
WATERS Drinking Recreational (man made)	Detection and Quantification of DNA from <i>Legionella pneumophila</i>	PMW011 based on ISO/TS 12869:2012 by Real-Time PCR using filtration, Aquadien DNA Extraction Kit, Bio-Rad iQ Check Test Kit and Agilent MX3005 analyser
WATERS Drinking	Detection of: 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
DIFFUSION TUBE SAMPLERS	<u>Chemical Tests</u> Nitrogen dioxide	Documented In-House Methods PE002 by spectrophotometry
END		