


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>Staffordshire Scientific Services</h3> <p>Issue No: 039 Issue date: 08 May 2017</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 FEEDING STUFFS	<p><u>Chemical Tests</u></p> <p>Development or modification of methods/analysis based on the techniques of HPLC, GC, AAS, ICP, UV-spectroscopy and microscopy</p> <p>Development and modification of methods and analysis based on gravimetric, titrimetric and wet chemical techniques</p> <p>Aflatoxins (B₁, B₂, G₁, G₂ and total aflatoxins)</p> <p>Arsenic</p> <p>Ash</p> <p>Copper</p> <p>Crude Fibre</p> <p>Crude Oils and Fats</p>	<p>Documented In-House Methods</p> <p>Documented In-House Procedures covered by Protocol SP4A</p> <p>Documented In-House Procedures using Generic Procedure SP4C</p> <p>F5104 by HPLC using Kobra cell</p> <p>F5076 by Atomic Fluorescence Spectrophotometry</p> <p>F5053 based on statutory method: using Muffle Oven (Reference and Routine)</p> <p>A5033 using ICP-OES</p> <p>A5012 sulphuric acid/potassium hydroxide digestion using Fibretech™ (Statutory Method) (Reference method)</p> <p>A5015 using Soxhlet solvent extraction (Method A and B) (Reference Method)</p>



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ANIMAL FEEDING STUFFS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
	Moisture	F5053 The statutory method using Oven (Reference Method)
	Moisture and free fat content	F5029 using SMARTTRAC™ Microwave analyser
	Mercury	G5030 using LECO AMA254 analyser
	Nitrogen and crude protein	F5052 Kjeldahl method F5157 by LECO Dumas analyser
	Vitamin A	G5085 by HPLC
	Vitamin E	G5050 by HPLC
	Lead Cadmium	A5039 by ICP - OES
Feeds and supplements	Development or modification of methods/analysis based on the techniques of HPLC, GC, AAS, ICP, UV-spectroscopy and microscopy	Documented In-House Procedures covered by Protocol SP4A
FERTILISERS	Selenium	G5044 using atomic fluorescence
	<u>Chemical Tests</u>	
	Nitrogen and crude protein	F5157 by LECO Dumas analyser
BEVERAGES, non-alcoholic		
Soft Drinks	Acesulfam-K Benzoic acid Caffeine Saccharin Sorbic acid	F5024 by HPLC
COCOA and CHOCOLATE PRODUCTS		
Cocoa, Chocolate	Ash (General method)	F5052 using Muffle Oven



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	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
Cocoa, Chocolate	Moisture (General method)	F5052 using Oven
DAIRY PRODUCTS		
Cheese	Water content (Reference and routine method)	F5073 using dried sand
Cream	Fat	F5101 by Rose-Gottlieb
	Phosphatase activity	F5182 by Fluorophos instrument
Milk, liquid	Fat	1) F5095 by Gerber Technique based on BS 696 Parts 1 and 2:1989 (withdrawn) 2) F5101 by Rose-Gottlieb (Reference Method)
	Freezing Point Depression	F5100 by Thermistor Cryoscope
	Phosphatase activity	F5182 by Fluorophos instrument
	Total solids	F5053 using Oven
FISH and FISH PRODUCTS Excluding canned products	Identification of fish species	F5103 using PCR - RFLP using Agilent 2100 Bioanalyser
FATS and OILS	Butyric acid	F5092 using Gas Chromatography
	Fatty acid profile	F5016 using Capillary Gas Chromatography
	Iodine value	F5022 by Titration
Fats, oils and emulsified fats and oils	Free fatty acids (total)	F5071 by Titration
	Iodine value	F5022 by Titration
	Peroxide value	F5070 by Titration
FLOUR and FLOUR PRODUCTS		
Bread	Moisture	F5053 using Oven



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FRUIT PRODUCTS and PROCESSED FRUIT	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
Fruit Juice	Ash (Routine method)	F5052 using Muffle Oven
	Vitamin C	F5091 by HPLC
FRUIT PRODUCTS and PROCESSED FRUIT, VEGETABLE PRODUCTS and PROCESSED VEGETABLES		
Fresh fruit and Vegetables	Vitamin C	F5034 by Titration
Canned Fruit Canned Vegetables	Drained weight (General method)	F5056 by Gravimetric technique
HONEY and HONEY PRODUCTS	Moisture	F5072 by Refractive Index
	Water Insoluble Solids	F5075
Spirits	Alcoholic strength	F5102 by density meter
	Congeners: Methanol n-propanol isobutanol 2 methyl butanol 3 methyl butanol	F5088 by Gas Chromatography
MEAT - FRESH or FROZEN MEAT PRODUCTS and PROCESSED MEAT	Moisture	F5052 (Reference Method) using Oven
	Nitrite	F5064 by Colourimetry
	Nitrogen and crude protein	F5001 based on BS 4401:Part 2:1980 using Digestion Block (Reference method)
MEAT - FRESH or FROZEN MEAT PRODUCTS and PROCESSED MEAT	Ash	F5052by muffle oven



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FOOD (cont'd) PRESERVES	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
FOODS, General	Development or modification of methods/analysis based on the techniques of HPLC, GC, ICP, UV-spectroscopy	Documented In-House Procedures covered by Protocol SP4A
	Residual allergens including Gluten, peanut, histamine and soya	SP4B Generic Protocol for the use of Immunoassay methods
	Development and modification of methods and analysis based on gravimetric, titrimetric and wet chemical techniques	Documented In-House Procedures using Generic Procedure SP4C
	Aflatoxins (B ₁ , B ₂ , G ₁ , G ₂ and total aflatoxins)	F5104 by HPLC using Kobra cell
	Identification of animal species for cow, pig, sheep, chicken, goat and horse	F5189 using DNA extraction, amplification and qualitative detection by Real-Time PCR
	Ash	1) F5025 by CEM microwave ash method 2) F5052 by muffle furnace
	Chloride	F5045 by Titration
	Dietary Fibre	F5038 by AOAC Gravimetric method
	Fat (Total)	F5054 by Werner - Schmid
	Identification of colouring matter (water soluble)	F5087 by Paper Chromatography
	Identification and quantification of colouring matter (artificial water soluble) -Allura Red; Ponceau 4R; Sunset yellow; Tartrazine	F5080 by HPLC
	Lead and Cadmium	F5042 by ICP-OES
	Moisture and free fat	F5029 using SMARTTRAC™ analyser



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FOODS, General	<u>Chemical Tests</u> (cont'd) Metals: Calcium Copper Iron Magnesium Potassium Sodium Zinc Moisture Nitrogen and Crude Protein Phosphorus Potassium Sodium Sugars Sulphur Dioxide Tin Total Volatile Nitrogen Vitamin A Vitamin E	Documented In-House Methods F5048 by ICP-OES F5053 Routine using the oven F5051 by block digestion F5157 by LECO Dumas analyser F5047 by uv/vis spectrometry F5046 by Flame photometry F5043 by Flame photometry F5007 by HPLC F5096 by iodine titration F5028 by ICP-OES F5065 by Titration G5085 by HPLC G5050 by HPLC
FOODS, Including fish and shellfish	Arsenic	F5076 by Atomic Fluorescence Spectrophotometry
FOOD DRINKS	Alcohol	F5019 by GC
	Vitamin C	F5020 by Titration
AIR	Nitrogen Oxide (Nox)	E5049 using a passive adsorption tube followed by colorimetric analysis using UV/visible spectrometry



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WATERS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number 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, potable	Anions: Chloride Fluoride Nitrate Sulphate	W5152 by Ion Chromatography (IC)
	Alkalinity	W5149 (ISBN 011 751 601 5:1981)
	Ammonia	W5150 (ISBN 011 751 613 9:1981)
	Colour	W5148 (ISBN 011 751 955 3:1981)
	Conductivity	W5147 (ISBN 011 751 428 4:1978)
	Metals covering: Calcium Copper Iron Lead Magnesium Manganese Potassium Sodium Zinc	W5151 by ICP -OES
	pH	W5146 (ISBN 0117514284:1978)
END		