


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>1325</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Aberdeen City Council</h3> <p>Issue No: 024 Issue date: 02 October 2009</p>	
	<p>Laboratory of the Public Analyst Old Aberdeen House Dunbar Street Aberdeen AB24 1UJ</p>	<p>Contact: Mr J Darroch Tel: +44 (0)1224 491648 Fax: +44 (0)1224 276873 E-Mail: jdarroch@aberdeencity.gov.uk Website:</p>
<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	ANALYSIS FOR THE PURPOSE OF ENFORCEMENT OF THE AGRICULTURE ACT 1970	METHODOLOGY TO MEET THE REQUIREMENTS FOR ENFORCEMENT OF THE AGRICULTURAL ACT 1970
	<u>Chemical Tests</u>	Documented In-House Methods in the Series PA/IHT/0000
	Aflatoxins	PA/IHT/2308 by High Performance Liquid Chromatography (HPLC)
	Arsenic and Selenium	PA/IHT/2520 by Hydride Generation AAS
	Ash	PA/IHT/0003
	Calcium and Magnesium	PA/IHT/2515 by Atomic Absorption Spectroscopy (AAS)
	Iron, Copper, Manganese, Zinc	PA/IHT/2510 by AAS
	Lead, Cadmium	PA/IHT/2511 by AAS
	Nitrogen	PA/VEM/0013 by Digestion Block using Titanium Catalyst and Hydrogen Peroxide
	Oil	PA/IHT/0215
Protein	PA/IHT/3001	
Sodium	PA/IHT/3008 by Flame Photometry	



1325

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ANIMAL FEEDING STUFFS BREAD AND BREAD PRODUCTS	<u>Chemical Tests</u> Crude fibre	PA/IHT/2062 using Fibretec system
ANIMAL FEEDINGSTUFFS FOOD and FOOD PRODUCTS	<u>Chemical Tests</u> Vitamin A and E	PA/IHT/2320 by HPLC (general and statutory method)
FERTILISERS	<u>Chemical Tests</u> Neutralising value Total Nitrogen Phosphorus - Soluble in Neutral Ammonia Citrate Phosphorous - Soluble in Water Potassium - Soluble in Water	Documented In-House Methods in the series PA/IHT/000 PA/IHT/3108 using back titration PA/IHT/3101 Chromium Powder Reduction Method PA/IHT/3103 Gravimetric Method PA/IHT/3104 Gravimetric Method PA/IHT/3107 by Flame Photometry PA/IHT/3106 Gravimetric Method
BODY FLUIDS/TISSUE Blood/Urine	<u>Chemical Tests</u> Alcohol	PA/IHT/9001



1325

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FOOD and FOOD PRODUCTS	ANALYSIS FOR THE PURPOSE OF THE FOOD SAFETY ACT 1990	METHODOLOGY TO MEET THE REQUIREMENTS FOR ENFORCEMENT OF THE FOOD SAFETY ACT 1990
	<u>Chemical Tests</u>	Documented Methods issued by the Association of Public Analysts Validation of Enforcement Methods Service (VEMS) in the series PA/VEM/0000 and Documented In-House Methods in the series PA/IHT/0000
BEVERAGES - ALCOHOLIC		
Spirits	Alcoholic Strength	PA/IHT/0401 by Obscuration using a Pyknometer
	Congeners	PA/VEM/0161 by GC
Wine	Acidity	PA/IHT/0081
BEVERAGES - NON-ALCOHOLIC		
Coffee and Coffee Products	Caffeine	PA/VEM/0059
Fruit Juice and Soft Drinks	Acesulfame-K, Aspartame, Benzoic Acid, Caffeine, Saccharin, Sorbic Acid	PA/IHT/2315 by HPLC and PA/IHT/2317 using HPLC
	Vitamin C	PA/IHT/2321 using HPLC reverse phase column and UV detection
	Water Soluble Synthetic Colour	PA/IHT/2309 by HPLC
CEREAL and BAKERY PRODUCTS		
Cereal, Flour, Starch and Bakery Products	3-monochloropropane-1,2-diol	PA/IHT/2171 using GCMS
Bread	Moisture	PA/VEM/0222
Bread and Flour Products	Propionic and Sorbic Acids	PA/IHT/2201
CONFECTIONERY and SUGARS		
Chocolate and Cocoa Products	Theobromine	PA/IHT/2313 by HPLC



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	
COOKING AND SEASONING SAUCES	3-monochloropropane-1,2-diol	PA/IHT/2171 using GCMS
DAIRY PRODUCTS		
Dairy Products	3-monochloropropane-1,2-diol	PA/IHT/2171 using GCMS
Butter	Fat, Water and Non-Fat Solids	PA/VEM/0120
	Salt	PA/VEM/0293
Cream	Acidity	PA/VEM/0251
	Fat - Routine	PA/VEM/0216 by Gerber Method
	Phosphatase	PA/IHT/0304
	Total Solids	PA/VEM/0136
Milk and Sugar Based Infant Food		
Milk	Fat	PA/VEM/0008 by Gerber method
	Antibiotics and other Inhibitory Substances	PA/VEM/0260 by Delvo Test
	Titrateable Acidity	PA/VEM/0131
	Freezing Point	1) PA/IHT/0307 by Thermistor Cryoscope (Routine Method) 2) PA/IHT/0306 by Thermistor Cryoscope (Reference Method)
	Phosphatase	PA/IHT/0301 (Routine)
	Total Solids	1) PA/VEM/0005 2) PA/VEM/0148



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FOOD and FOOD PRODUCTS (cont'd) DAIRY PRODUCTS Milk and Milk Products	<u>Microbiology Tests</u> Enumeration of : <i>Enterobacteriaceae</i> Aerobic Colony Count at 30°C Coagulase-positive staphylococci <i>Listeria monocytogenes</i> and <i>Listeria</i> species Detection of: <i>Listeria monocytogenes</i> <i>Salmonella</i> species Detection and enumeration of Enterobacteriaceae	PA/IHT/6505 by pour plate technique In house screening method based on ISO 21528-2:2004 PA/IHT/6001 PA/IHT/6507 by spread plate technique based on ISO 6888-1:1999 PA/IHT/6510 by spread plate technique based on ISO 11290-2:1998 , incorporating amendment 1:2004 PA/IHT/6513 by selective enrichment technique based on ISO 11290-1:1997 incorporating amendment 1:2004 PA/IHT/6508 by selective enrichment technique based on ISO 6579:2002 PA/IHT/6517 by MPN based on (ISO 21528-1:2004)
DESSERTS Ice Creams	<u>Chemical Tests</u> Fat	PA/IHT/0216 the Gerber Method



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	
FISH AND FISH PRODUCTS	3-monochloropropane-1,2-diol	PA/IHT/2171 using GCMS
	Chloride	PA/VEM/0128
	Fish Species Identification	1) PA/VEM/0151 by Iso-Electric Focussing 2) PA/IHT/0063 by Examination of skin and other distinguishing features
	Histamine	PA/VEM/0124 by Fluorescence spectrometry
	Total Volatile Basic Nitrogen	PA/VEM/0219
Prawns - Frozen, Cooked and Peeled	Ice Glaze	PA/VEM/0033
FRUIT and VEGETABLES		
Soft Fruit and Vegetables	Drained Weight	PA/VEM/0052
	Soluble Solids	1) PA/VEM/0247 2) PA/VEM/0250
HONEY and HONEY PRODUCTS	Acidity	PA/IHT/0071
	Ash	PA/VEM/0122
	Diastase activity	PA/IHT/0075
	Electroconductivity	PA/IHT/0076 EU reference method, Method 12
	Moisture	PA/VEM/0265
	Hydroxymethylfurfural	PA/IHT/2310 by HPLC
	Water Insoluble Solids	PA/VEM/0266



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)		
MEAT, GAME and POULTRY including processed products	3-monochloropropane-1,2-diol	PA/IHT/2171 using GCMS	
	L(-)Hydroxyproline	PA/VEM/0092	
	Identification of Meat Species in cooked meat and Meat Products	PA/IHT/0083 using ELISA immunoassay kit	
	Nitrite	PA/IHT/0101	
	Soya Protein	PA/VEM/0292	
	Sulphur Dioxide	1) PA/VEM/0158 by Distillation and Gravimetry 2) PA/VEM/0360 by Distillation and Titrimetry	
OILS and FATS	Total Volatile Nitrogen in Flesh Foods	PA/VEM/0157	
	Fatty Acid Profile	PA/IHT/2151 by analysing fatty acids converted to fatty acid methyl esters using GC	
	Free Fatty Acids -	PA/VEM/0010	
	n-Butyric Acid	PA/IHT/2101	
SOUPS, BROTHS and SAUCES	Peroxide Value	PA/VEM/0009	
	- Vinegar	Acetic Acid	PA/VEM/0176
SPICES	- Chilli powder	Sudan I colour	PA/IHT/2322 by HPLC
	FOODS, General	Acesulfame-k, Aspartame and Saccharin in Water Soluble Foods	PA/IHT/2312 by HPLC
Aflatoxins B ₁ B ₂ G ₁ G ₂		PA/IHT/2308 by HPLC	
Arsenic		PA/IHT/2520 by Hydride Generation AAS	



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS, General (cont'd)	Ash	PA/IHT/0003
	Benzoic Acid and Sorbic Acid	PA/IHT/2302 by HPLC
	Calculation of Energy Value	PA/VEM/0381
	Calcium and Magnesium	PA/IHT/2515 by AAS
	Chloride	PA/VEM/0301 PA/IHT/2303 by HPLC
	Dietary Fibre	PA/IHT/2051 by Englyst Fiberzym Kit Method PA/VEM/0081 by AOAC method
	Ethanol	PA/IHT/2102 by GC
	Fat	1) PA/IHT/0014 by Acid Digestion (Werner-Schmid Method) 2) PA/IHT/0214 by Alkaline Hydrolysis 3) PA/IHT/0215 by Acid Digestion and Soxhlet Extraction 4) PA/IHT/0217 by Soxhlet Extraction 5) PA/IHT/0218 using Soxhtherm Extraction
	Generic Protocol for the Development of Methods of Analysis	PA/IHT/3000 based on High Performance Liquid Chromatography, Atomic Absorption Spectrometry, Inductively Coupled Plasma Spectrometry, Ultra-Violet/Visible Spectrophotometry and Microscopy
	Glucose, Fructose and Sucrose in Water Soluble Foods	PA/IHT/2311 by HPLC
	Herbs, Spices and Vegetable Materials	PA/VEMS/0224 by Microscopy



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS, General (cont'd)	Ingredients	PA/IHT/0005 by Gravimetry
	Lead and Cadmium < 0.1 mg/Kg Pb and < 0.5 mg/Kg Cd	PA/IHT/2501 by AAS
	> 0.1 mg/Kg Pb and > 0.5 mg/Kg Cd	PA/IHT/2505 by AAS
	> 0.5 mg/Kg Pb and > 0.2 mg/Kg Cd	PA/IHT/2511 by AAS
	Mercury	PA/IHT/0152 by Cold Vapour AAS
	Metals: Iron, Copper, Manganese and Zinc	PA/IHT 2510 by AAS
	Moisture	PA/IHT/0007 PA/IHT/0008 by Drying on Sand
	Monosodium Glutamate	PA/IHT/2316 by HPLC
	Nitrate and Nitrite	PA/IHT/2307 by HPLC
	Nitrogen	PA/VEM/0013 by Digestion Block using Titanium Catalyst and Hydrogen Peroxide
	Organic Phosphorus Lipids	PA/VEM/0258 by Colorimetry
	Phosphorus	PA/VEM/0257 by Colorimetry
	pH	PA/VEM/0282
	Potassium	PA/IHT/2502 by Flame Photometry (FP)
	Selenium	PA/IHT/ 2520b by Hydride generation/AAS
	Fructose, Glucose, Sucrose, Maltose and Lactose	PA/IHT/2318 using HPLC
	Sodium	PA/IHT/2503 by FP



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FOOD and FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	
FOODS, General (cont'd)	Sulphur Dioxide - Routine	PA/IHT/2001
	Synthetic Colours in Water Soluble Foods	PA/IHT/2309 by HPLC
	Tin	PA/VEM/0134
	Vitamin C	PA/IHT/ 2319 using HPLC
	<u>Physical Tests</u>	Documented In-House Methods in the series PA/IHT/0000
	Water activity	PA/IHT/0085
	<u>Microbiology Tests</u>	Documented In-House Methods in the series PA/IHT/0000
	Enumeration of :	
	Aerobic Colony Count in Foods:	
	at 30 °C	1) PA/IHT/6101 by pour plate technique based on ISO 4833:2003
	at 22 °C, 30 °C and 37 °C	2) PA/IHT/6103 by spread plate technique based on BS 5763-5:1981
	at 30 °C	3) PA/IHT/6104 by spiral plater based on BS 5763-5:1981 adapted for spiral plater
	<i>Bacillus cereus</i>	PA/IHT/6502 by spread plate technique based on ISO 7932:1998
Coliforms	PA/IHT/6406 by pour plate technique based on ISO 4832:2006	
<i>Clostridium perfringens</i>	PA/IHT/6509 by pour plate technique based on ISO 7937:2004	
<i>Enterobacteriaceae</i>	PA/IHT/6505 by pour plate technique based on ISO 21528-2:2004	



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FOOD and FOOD PRODUCTS (cont'd)	<u>Microbiology Tests</u> (cont'd)	
FOODS, General (cont'd)	Enumeration of : (cont'd)	
	<i>Escherichia coli</i>	PA/IHT/6403 based on ISO 16649-2:2001 using surface plating
	β -glucuronidase positive <i>E coli</i> in prepared shellfish	PA/IHT/6402 by MPN based on ISO 16649-3:2005
	<i>Listeria monocytogenes</i> and <i>Listeria</i> species	PA/IHT/6510 by spread plate technique based on ISO 11290-2:1998, incorporating amendment 1:2004
	<i>Pseudomonas</i>	PA/IHT/6511 by spread plate technique based on BS 7857-1:1996
	Coagulase-positive staphylococci	PA/IHT/6507 by spread plate technique based on ISO 6888-1:1999
	Detection of :	
	Thermotolerant <i>Campylobacter</i>	PA/IHT/6501 by selective enrichment technique
	<i>Escherichia coli</i> O157	PA/IHT/6408 by Immuno-magnetic separation based on ISO 16654:2001
	<i>Listeria monocytogenes</i>	PA/IHT/6513 by selective enrichment technique based on ISO 11290-1:1997 incorporating amendment 1:2004
	<i>Salmonella</i> species	PA/IHT/6508 by selective enrichment technique based on ISO 6579:2002
- Chicken meat (raw)	Thermotolerant <i>Campylobacter</i> spp	PA/IHT/6514 by selective enrichment technique based on ISO 10271-1:2006



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POLLUTANTS AND EFFLUENTS ATMOSPHERIC	<u>Chemical Tests</u>	Documented In-House Methods in the series PA/IHT/0000 as listed below
- Air	Nitrogen Dioxide	PA/IHT/8001
	Titration of Hydrogen Peroxide Solutions (as part of the determination of sulphur dioxide concentration)	PA/IHT/8010
WATERS Private water supplies Potable waters (including Public water supplies)	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 Water Supply (Water Quality) (Scotland) Regulations 2001 (SI 2001/207)	Methodology meeting the requirements of The Drinking Water Testing Specification
	<u>Chemical Tests</u>	Documented In-House Methods
	Ammonia	PA/IHT/4101 using Spectrophotometry
	Colour	PA/IHT/4208 using Spectrophotometry
	Conductivity	PA/IHT/4204 using conductivity meter
	Nitrate, Chloride, Sulphate,	PA/IHT/4102 using Ion Chromatography
	pH	PA/IHT/4203 using pH Meter
	Turbidity	PA/IHT/4205 using Turbidity Meter
	Nitrite	PA/IHT/4104 using Spectrophotometry
	Iron	PA/IHT/4010 using spectrophotometry
	Lead, Manganese	PA/IHT/4005 using ETA-AAS



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WATERS Private water supplies Potable waters (including Public water supplies) (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods (cont'd)
	Sodium	PA/IHT/4515 using Ion Chromatography PA/IHT/4009 using Flame Photometry
	<u>Microbiological Tests</u>	Documented In-House Methods based on MDW Methods
	Enumeration of:	
	Total Coliforms and <i>Escherichia coli</i>	PA/IHT/7401 by membrane filtration and PA/IHT/7404 by Colilert based on MDW (2002) Part 4
	Heterotrophic Colony Count	PA/IHT/7001 by pour plate technique based on MDW (2007) Part 7
WATERS - Pollutants and Effluents: Liquid Non-potable, Raw, Surface, Groundwaters and Wastewaters	<i>Enterococci</i>	PA/IHT/7604 by membrane filtration based on MDW (2006) Part 5
	Sulphite-Reducing Clostridia and <i>Clostridium perfringens</i>	PA/IHT/7602 by membrane filtration based on MDW (2007) Part 6
	<u>Chemical and Physical Tests</u>	Documented In-House Methods in the series PA/IHT/0000 as listed below
	Alkalinity	PA/IHT/4506
	Ammonia	PA/IHT/4504 by Spectrophotometry
	Biochemical Oxygen Demand (BOD)	PA/IHT/4514
	Chemical Oxygen Demand (COD)	PA/IHT/4513
	Chloride, Nitrate, Phosphate and Sulphate	PA/IHT/4503 by HPLC
Conductivity	PA/IHT/4502	
Total copper	PA/IHT/4517 by AAS	



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WATER (cont'd) Potable, Raw, Surface and Groundwaters (cont'd)	<u>Chemical Tests</u> (cont'd)	
	Elemental Analysis: (cont'd)	
	- Magnesium	PA/IHT/4515 by HPLC PA/IHT/4006 by Flame AAS
	- Manganese	PA/IHT/4005 by ETA- AAS PA/IHT/4008 by FAAS
	- Nitrate	PA/IHT/4102 by HPLC
	- Nitrite	PA/IHT/4104 by Spectrophotometry
	- Potassium	PA/IHT/4515 by HPLC PA/IHT/4009 by FP
	- Sodium	PA/IHT/4515 by HPLC PA/IHT/4009 by FP
	- Sulphate	PA/IHT/4102 by HPLC
	- Zinc	PA/IHT/4008 by Flame AAS
	Permanganate Index	PA/IHT/4213
	pH	PA/IHT/4203
	Total Hardness	PA/IHT/4206 by Titration
	Total Dissolved Solids	PA/IHT/4222
	Total Solids	PA/IHT/4223
Turbidity	PA/IHT/4205 by Nephelometry	
SWIMMING POOL WATERS	<u>Chemical Tests</u>	
	Total, Combined and Free Chlorine	PA/IHT/4219
	Total Dissolved Solids	PA/IHT/4222
	Total Solids	PA/IHT/4223



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<p>WATER Raw, potable and recreational waters</p>	<p><u>Microbiology Tests</u></p> <p>Enumeration:</p> <p>Heterotrophic Colony Count</p> <p>Total Coliforms and <i>Escherichia coli</i></p> <p><i>Pseudomonas aeruginosa</i></p> <p>Sulphite-Reducing Clostridia and <i>Clostridium perfringens</i></p> <p><i>Enterococci</i></p> <p>Detection of :</p> <p><i>Escherichia coli</i> O157:H7</p> <p>Enumeration of:</p> <p>Coagulase-positive staphylococci in pool and spa waters</p>	<p>Documented In house methods based on/incorporating published procedures in The Microbiology of Drinking Water (MDW)</p> <p>PA/IHT/7001 by pour plate technique based on MDW (2007) Part 7</p> <p>PA/IHT/7401 by membrane filtration and PA/IHT/7404 by Colilert based on MDW (2002) Part 4</p> <p>PA/IHT/7601 by membrane filtration based on MDW (2002) Part 8</p> <p>PA/IHT/7602 by membrane filtration based on MDW (2007) Part 6</p> <p>PA/IHT/7604 by membrane filtration based on MDW (2006) Part 5</p> <p>PA/IHT/7605 by immuno-magnetic separation based on MDW (2002) Part 4</p> <p>PA/IHT/7606 by membrane filtration (a customer specified method)</p>
	<p>END</p>	