


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 1642	Central Science Laboratory	
	Issue No: 030	Issue date: 02 August 2004
	Sand Hutton York YO41 1LZ	Contact: Mr D A Shirling-Rooke Tel: +44 (0)1904 462586 Fax: +44 (0)1904 462111 E-Mail: d.shirling-rooke@csl.gov.uk Website: www.csl.gov.uk
Testing performed at permanent laboratory premises		

SUMMARY OF ACCREDITATION

FOOD & FOOD PRODUCTION

Animal feeding stuffs
Mycotoxins
Poly chlorinated compounds
Beverages, alcoholic
Carbon-13/carbon-12 ratio
Deuterium/hydrogen ratio
Oxygen Isotope Ratio
Heavy metals
Mycotoxins
Organic chemicals
Beverages, non-alcoholic
Acrylamide
MCPD
Metals
Mycotoxins
Patulin
Preservatives
Poly chlorinated compounds
Sweeteners
Cereals & cereal products
Mycotoxins
Pesticides
Confectionery & high sugar content products; honey
Pesticides
Cooking & seasoning sauces
MCPD
Dairy products
Dioxins & furans
Metals
Polyaromatic hydrocarbons
Fish & fish products
Pesticides
Foods, general - chemical analysis
Acrylamide
Genetically modified soya/maize
Heavy metals
MCPD
Metals
Mycotoxins
Pesticides
Poly chlorinated compounds
Food, general - microbiology
Aerobic plate count
Campylobacter
Clostridium botulinum
E coli - 0157

Listeria monocytogenes
Salmonella spp
Fruits & vegetables & products
Acrylamide
Dioxins & furans
Fungicides
Mycotoxins
Nitrate
Nitrite
Pesticides
Poly chlorinated compounds
Polyaromatic hydrocarbons
Grain & grain products, seeds & pulses
Dioxins & furans
Genetically modified soya/maize
Heavy metals
Herbicides
Mycotoxins
Pesticides
Polyaromatic hydrocarbons
Meat & meat products
Dioxins & furans
Drugs
Pesticides
Poly chlorinated compounds
Polyaromatic hydrocarbons
Packaging materials
Migration into foodstuffs



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	<p><u>Chemical Tests</u></p> <p>Detection of veterinary residues:</p> <p>β-Agonists</p> <p>Antimicrobials screen including: penicillins sulphonamides tetracyclins</p> <p>Dexamethasone</p> <p>Diethylstilbestrol</p> <p>Nortestosterone</p> <p>Testosterone</p> <p>Trenbolone</p> <p>Sulphonamides</p> <p>Zeranol</p> <p>Detection, confirmation and quantification of veterinary residues:</p> <p>Basic drugs including malachite green benzimidazoles levamisole nitroimidazoles</p> <p>Benzylpenicillin</p> <p>Ciprofloxacin Enrofloxacin Sarafloxacin</p>	<p>Documented In-House Methods identified by method number</p> <p>Method 26 using Enzyme Linked Immuno-Sorbent Assay (ELISA)</p> <p>1) Method 28 using Delvotest microbiological test kit</p> <p>2) Method 37 using PremiTest microbiological test kit</p> <p>Method 31 using ELISA</p> <p>Method 30 using ELISA</p> <p>Method 32 using ELISA</p> <p>Method 34 using ELISA</p> <p>Method 33 using ELISA</p> <p>Method 8 using High Performance Thin Layer Chromatography (HPTLC)</p> <p>Method 29 using ELISA</p> <p>Method 22 using multi-residue extraction and clean-up procedure</p> <p>Method 14 using HPLC</p> <p>Method 9 using HPLC</p>



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FRUITS and VEGETABLES (cont'd)	<u>Chemical Tests</u> (cont'd) Pesticide residues - detection and quantification covering the following compounds: aldicarb demeton-S-methyl disulfoton fenamiphos fenthion phorate terbufos thio meton Maleic hydrazide	PGB/042 by ethyl acetate extraction followed by oxidation and GC-FPD and GC-NPD PGB/093 using High Performance Liquid Chromatography (HPLC)
POMME FRUITS FRUIT BASED INFANT FOODS	Dodine	PGB/106 using HPLC-MS
LEAFY VEGETABLES	Promocarb	PGB/107 using HPLC-MS
	Inorganic bromide	PGB/127 GC-ECD and GC-MS
FOODS	ETU and ISO-PTU	PGB/109 using HPLC-MS
CEREALS FRUITS and VEGETABLES	Chlormequat	PGB/008 using HPLC-MS
FOODS, STORED AND PROCESSED	Phosphine	PGD/019 using GC-NPD and GC-MS
SAMPLE EXTRACTS prepared from animal feed, food and environmental samples	Target compound analysis (qualitative and quantitative)	PGE/001 using API, HPLC-MS and HPLC-MS/MS
FOODS	Pesticide residues - detection, quantification and confirmation by appropriately validated methods for the analyte/matrix combinations not covered by the specific methodology given in the scope of Accreditation	PGB/105 using GC,GC-MS,LC and LC-MS



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ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid)	<u>Chemical Tests</u> Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs) Polychlorinated dibenzofurans (PCDFs) Polychlorinated biphenyls (PCBs) (Non- <i>ortho</i> and <i>ortho</i>) Polybrominated diphenyl ethers Polybrominated diphenyl ethers (PBDEs)	Documented In-House Methods Standard operating procedures contained in FSQE Manual 1 using Gas Chromatography, High Resolution Isotope Dilution Mass Spectrometry with ¹³ C - labelled internal standards
FOODS	Polynuclear aromatic hydrocarbons (PAHs)	SOP 12 using Gas Chromatography, High Resolution Mass Spectrometry
BACON BEER CHEESE	N-nitrosodimethylamine N-nitrosodiethylamine	SOP 10 using Gas Chromatography, Low Resolution Mass Spectrometry Method 12 using GC-Thermal Energy Analyser detection
FOODS and BEVERAGES	Acesulfame-K Aspartame	F61 using HPLC
	Acrylamide	F63 using Gas Chromatography Mass Spectrometry (GC-MS)
	Benzoic acid Sorbic acid	F60 using HPLC
	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSQ4/01 using immuno-affinity column clean-up and HPLC with post column derivatisation
	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A	FSQ4/11 using immuno-affinity column clean-up and HPLC with post column derivatisation
	Nitrate Nitrite	F10 using HPLC
	Aflatoxin M ₁	FSQ4/03 using immuno-affinity clean-up and HPLC
	Deoxynivalenol	FSQ4/10 using immuno-affinity clean-up and HPLC



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FOODS and BEVERAGES (cont'd)	<u>Chemical Tests</u> (cont'd)	
	Fumonisin B ₁ , B ₂ , B ₃	FSQ4/14 using immuno-affinity clean-up and HPLC
	3-Monochloropropane-1, 2-Diol (3-MCPD)	FSQ4/07 using GC-MS
	Ochratoxin A	FSQ4/02 using immuno-affinity column clean-up and HPLC
	Patulin	FSQ4/04 using HPLC
	Sterigmatocystin	FSQ4/09 using HPLC
	Zearalenone	FSQ4/08 using immuno-affinity column clean-up and HPLC
CEREALS and CEREAL PRODUCTS	Trichothecenes	FSQ4/13 using solid phase clean-up and GC-MS
SOY SAUCE	1,3 Dichloropropan-2-ol (DCP)	FSQ4/15 by GC-MS
SOYA/MAIZE FLOUR MAIZE KERNELS SOYA BEANS FOODS BEVERAGES (near neutral pH)	Detection of: Genetically modified soya/maize	Standard Operation Procedures covering sample preparation, DNA extraction, Polymerase Chain Reaction (PCR) amplification and electrophoretic detection
MATRICES/ELEMENTS THAT ARE ACID DIGESTABLE/SOLUBLE INCLUDING: ANIMAL FEEDS BEVERAGES FOODS SAMPLES OF CLINICAL ORIGIN (covering blood, serum and organs of animal/human origin) CROPS	Single and multi-elemental analysis Arsenic Mercury Selenium Bromine Chlorine Iodine	BITES-1 and supporting extraction procedures using inductively coupled plasma - mass spectrometry (ICP-MS) BITES-2 and supporting extraction procedures using hydride generation ICP-MS BITES-5 and alkaline extraction (TMAH) using ICP-MS
FOODS and BEVERAGES		
FRUITS AND BEVERAGES	D/H _I and D/H _{II} ratio determination for ethanol	SOP FSQ4/AUTH/001 and SOP FSQ4/AUTH/002 using SNIF-NMR



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FOODS and BEVERAGES (cont'd)	<u>Chemical Tests</u> (cont'd)	
FRUITS and BEVERAGES (cont'd)	¹³ C/ ¹² C ratio determination for ethanol	SOP FSQ4/AUTH/001 and SOP FSQ4/AUTH/003 using GC-C-IRMS
	¹⁸ O/ ¹⁶ O ratio determination	SOP FSQ4/AUTH/004 using CO ₂ -EQ-IRMS
PLASTIC PACKAGING MATERIALS	<u>Chemical/Physical Tests</u>	
	Overall migration from packaging materials into fatty food simulants by total immersion	FSQC/OM1
	Overall migration from packaging materials into aqueous food simulants by total immersion	FSQC/OM2
	<u>Microbiological Tests</u>	Documented In-House Procedures
TISSUE MATERIAL FROM BADGERS	Detection of: Mycobacterium bovis	MIC1/008 for pooled samples
FOODSTUFFS	Enumeration of: Total viable colony count	MIC 3/009 based on BS EN ISO 4833:2003 at 30°C
	Detection of: <i>Campylobacter spp</i> (Thermotolerant)	MIC3/003 using Park and Sanders Broth, modified Preston Broth (based on 5763:Part 17:1996) and modified Exeter Broth (based on Humphrey <i>et al</i> 1995)
	<i>Clostridium botulinum</i> and <i>Clostridium botulinum</i> toxins	MIC1/001
	<i>Escherichia coli</i> 0157 (verocytotoxigenic strains)	MIC4/001 based on BS EN ISO 16654:2001
	<i>Listeria monocytogenes</i>	MIC3/002 based on BS EN ISO 11290-1:1997



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FOODSTUFFS (cont'd)	<u>Microbiological Tests</u> (cont'd) Detection of: (cont'd) <i>Salmonella</i> spp	 MIC 3/001 based on EN 12824:1998 and BS EN ISO 6579:2002
	END	