


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	Eurofins Laboratories Ltd	
	Issue No: 047 Issue date: 14 November 2011	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDINGSTUFFS BIOLOGICAL MATERIALS FOOD SEDIMENTS SOILS	<u>Chemical Tests</u> Determination of elemental extracts: Aluminium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Potassium, Sodium, Sulphur, Zinc	Documented In-House Methods identified by method number I/046 sample preparation procedure methods 1, 2 + 13 and ICP/003 by Inductively Coupled Plasma Spectrophotometry (ICP)
FOOD, BIOLOGICAL MATERIALS BOTANICAL MATERIAL SOILS	Fluoride	I/048 by fluoride electrode
SOILS	Mercury	I/052 by LECO analyser
FOODS, ANIMAL FEEDINGSTUFFS, DRIED FRUIT AND SPICES	Aflatoxin B1, B2, G1, G2 and Total	CHROM/120 by immunoaffinity column clean up and HPLC
FOODS, ANIMAL FEEDINGSTUFFS, DRIED FRUIT	Ochratoxin A	CHROM/123 by immunoaffinity column clean up and HPLC
COMPOUND FEEDS FINISHED PRODUCTS	<u>Chemical Tests</u> Amylase Neutral Detergent Fibre	Documented In-House Methods identified by method number H/016 following procedure MAFF PB1285: Prediction of Energy Values of Compound Foods for Farm Animals
	Ash	Q/001by Gravimetric Determination
	Crude Fibre	H/006 by Fibertec



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COMPOUND FEEDS FINISHED PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number	
	Neutral cellulase/gamanase digestibility	H/015 following procedure MAFF PB1285: Prediction of Energy Values of Compound Foods for Farm Animals	
	Nitrogen/Crude protein	Z/001 by Dumas procedure	
	Oil (free)	H/036 by solvent extraction	
	Oil (total)	H/034 by acid hydrolysis and solvent extraction	
	Sugar	H/044 by Luff-Schoorl method	
	Starch	H/050 by polarimetry	
DAIRY PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number	
	Milk Milk powder	Aflatoxin M ₁	CHROM/319 by immunoaffinity column clean-up and HPLC
	Buttermilk, powder Dairy spreads Milk powder, fat filled	Butterfat	CHROM/239 by Gas Chromatography (GC)
	Fat filled powders Milk, Raw, Heat-Treated, Semi-Skimmed and Skimmed Buttermilk, powder Milk powder, skimmed	Fat	K/001 by Röse Gottlieb based on BS EN ISO 1736:2008
	Butter, unsalted/untraced Butter, salted/untraced Butter, traced Garlic Butter	Fat	K/011 by solvent extraction and gravimetric determination
	Cheese Yogurt	Fat	K/014 by Schmid, Bondzynski Ratzlaff procedure
	Cream	Fat	K/001 by Röse Gottlieb method



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DAIRY PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
Milk, Milkfat	Fatty acid profile	CHROM/215 by GC based on draft IDF method
Butter, unsalted/untraced Butter, salted/untraced	Free fatty acids	K/015 by Alkali titration
Butteroil, untraced	Free fatty acids	K/015 by Alkali titration
Cream	Free fatty acids	K/059 and K/015 by Alkali titration
Milk powder	Insolubility index	K/020 based on IDF129A
	Moisture	K/072 based on ISO 5537: 2004/IDF 26 using Milky Master (drying oven)
Milk	Lactose	K/021 by polarimetry
Milk Milk products	Milkfat	CHROM/239 by GC methyl butyrate method
Butter, unsalted/untraced Butter, salted/untraced	Moisture	K/011 by gravimetric determination
Cheese	Moisture	K/047 by gravimetric determination
	Salt content	Q/031 by Volhard titration
Milk	Nitrogen (casein)	Z/003 by Kjeldahl
Buttermilk, powder Milk powder, skimmed	Nitrogen/Crude protein	Z/001 by Dumas procedure and calculation
Cheese, Yogurt, liquid milk, milk powder	Nitrogen/Crude protein	Z/002 by Kjeldahl procedure and calculation
Butteroil, untraced Butter, salted/untraced Butter, unsalted/untraced	Peroxide value	K/031 by photometric determination
Butter, salted/untraced	Salt	K/007 by Volhard titration
Spray process dried milk powders	Scorched particles	K/034 based on ADMI bulletin



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DAIRY PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
Butter, unsalted	Solids-not-fat	K/011 based on IDF 80, gravimetric and calculation
Cream, Milk, skimmed Milk, skimmed/buttermilk mixture	Solids-not-fat	K/046 by calculation
Fat filled powder	Starch, polarimetric	H/050 by polarimetry
Buttermilk Cream Milk, skimmed Milk, skimmed/buttermilk mixture	Total solids	K/037 by gravimetric determination
Milk	Titrateable acidity	K/002 by acid-base titration
FOODS - GENERAL & ENVIRONMENTAL SWABS, unless specified	<u>Chemical Tests</u>	
	Detection and quantification of Allergens	Methods developed and validated following the Flexible Scope procedure ALA/019 using sample preparation procedures and commercially available ELISA test kits
	Almond	ALA/024 using R-Biopharm Ridascreen FASR Almond ELISA kit
	Casein	ALA/016 using R-Biopharm Ridascreen FAST Casein ELISA kit
	Egg White Protein	ALA/015 using Neogen Egg Assay ELISA kit
	Gliadin R5	ALA/018 using R-Biopharm Ridascreen Gliadin ELISA kit
Fish (fresh, processed & canned), cheese, milk, wine	Histamine	ALA/010 using R-Biopharm Ridascreen Histamine ELISA kit
	Peanut	ALA/007 using Neogen Peanut Assay ELISA kit



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FOODS - GENERAL & ENVIRONMENTAL SWABS, unless specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Sesame	ALA/006 using ELISA SYSTEMS sesame seed protein assay kit
FOODS - GENERAL	Soya	ALA/023 using ELISA SYSTEMS soy protein assay kit
	<u>Microbiological Tests</u>	
	Qualitative detection of Staphylococcal Enterotoxin (serotypes A to E)	ALA/005 using 3M Tecra Staph Enterotoxin VIA ELISA kit
	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Ash	Q/001 by gravimetric determination
	Chloride	Q/012 by Volhard titrimetric method
	Colouring matter (artificial water soluble) Allura Red Brilliant Black BN Brilliant Blue FCF Carmoisine Erythrosine Green S Indigo Carmine Ponceau 4R Quinoline Yellow Patent Blue V Red 2G Sunset Yellow FCF Tartrazine	CHROM/130 by HPLC
	Dietary Fibre	H/085 following AOAC procedure using Fibretech system
	Fat	Q/002 by gravimetric determination
	Gluten	CHROM/124 by ELISA
beta - Lactoglobulin	CHROM/125 by ELISA	
Fatty acid profile	CHROM/215 by GC	



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FOODS - GENERAL (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Nitrogen and crude protein	1) Z/001 by Dumas combustion method 2) Z/002 by Kjeldahl
	Moisture	Q/005 by gravimetric determination
	Organic preservatives	CHROM/131 by HPLC
	Soya Protein	ALA/001 by ELISA (Neogen)
	Sugars	CHROM/104 by HPLC
	Sulphur dioxide	Q/020 by titrimetry
	Sweeteners	CHROM/129 by HPLC
	Water Activity	H/081 by water activity meter
CAKE, CHOCOLATE, COCOA	Theobromine/caffeine	CHROM/128 by HPLC
FOODS, FEEDING STUFFS	Iodine	ICPMS/002 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
WET and DRY FOODS (ash content >1%)	Ash	H/087 by microwave furnace
WET FOODS and WET PET FOODS (sugar content <15%) excludes raw petfood ingredients	Fat	H/086 by automated NMR
	Moisture (12-100%)	H/086 by automated microwave gravimetric analysis
FOOD, ANIMAL FEEDSTUFFS, BIOLOGICAL MATERIALS, SEDIMENT	Low level elements: Li, B, Fe, As, Se, Rb, Sr, Sn, Cs, Ba, Hg, U, Cd, Pb, Ni, Cr, Co, Mo, V, Cu, Mn, Zn, Al	I/046 - method 13 (sample extraction method) and ICPMS/010 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
SOILS	Low level elements: Mo, As, Se	I/046 - method 13 (sample extraction method) and ICPMS/010 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)



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FEEDING STUFFS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Moisture	H/077 based on BS EN ISO 712:2009
FOODS - GENERAL	Calculations relating to food analysis	Q/035 by calculation
	Added Water Apparent Fat Free Meat Apparent Total Meat Apparent Total Fish Content EU Meat Content Total Carbohydrate Carbohydrate (available) Collagen Collagen:Protein ratio Excess Connective Tissue Excess Fat Total Energy (as Kcals and KJ)	
MEATS and MEAT PRODUCTS	Hydroxyproline	Q/029 by SKALAR analysis
	Cooked Meat species	ALA/003 by ELISA (Tepnel Biosystems)
	Raw Meat Species	ALA/002 by ELISA (Tepnel Biosystems)
PLASTICS	Lead and Cadmium	I/046 and ICPMS 010 by microwave digestion followed by ICPMS
PAINT	Lead	I/046 and ICPMS 010 by microwave digestion followed by ICP-MS
FRUITS, VEGETABLES and HERBS	<u>Chemical Tests</u>	
	Pesticide residues - detection, quantification and confirmation	Methods developed and validated following the Flexible Scope procedure PRES/066 Flexible scope procedure using GC-MS and LC-MS, using GC-MS and LC-MS/MS, for analytes not covered by the specific methodology given in the scope of accreditation below



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FRUITS, VEGETABLES and HERBS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
Heptachlor: excluding lettuce	Multi-Residue Pesticide Screen covering the following compounds: (cont'd)	PRES/069 EMR extraction + analysis by PRES/021 using GC-MS (cont'd)
Indoxacarb: excluding herbs	heptachlor heptachlor epoxide heptenophos hexachlorobenzene hexaconazole imazalil	
Isocarbofos: excluding potato & pome fruit	indoxacarb iodofenphos iprodone isazophos isobenzan isocarbofos isodrin isofenphos isofenphos-methyl kresoxim-methyl lambda-cyhalothrin lenacil leptophos malaaxon malathion mecarbam mepanipyrim metalaxyl metazachlor	
Methacrifos: excluding potato & pome fruit	methacrifos methidathion metrafenone mevinphos myclobutanil	
Omethoate: excluding citrus fruit	ofurace omethoate op-DDT oxadiazon oxadixyl oxyfluorfen	
Paclobutrazol: excluding citrus fruit	paclobutrazol parathion parathion-methyl penconazole pendimethalin	



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FRUITS, VEGETABLES and HERBS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
Terbufos: excluding potato	Multi-Residue Pesticide Screen covering the following compounds: (cont'd)	PRES/069 EMR extraction + analysis by PRES/021 using GC-MS (cont'd)
Triadimenol: excluding herbs	tecnazene tefluthrin terbufos terbutryn tetrachlorvinphos tetraconazole tetradifon tetramethrin thiabendazole tolclophos-methyl triadimefon triadimenol triazophos trifloxystrobin trifluralin vinclozolin	
	Multi-Residue Pesticide Screen covering the following compounds:	PRES/069 EMR extraction + analysis by PRES/068 using Liquid Chromatography Mass Spectrometry (LC/MS/MS)
	acephate acetamiprid aldicarb aldicarb sulfone aldicarb sulfoxide azoxystrobin benalaxyl bupirimate buprofezin cadusaphos carbendazim carbofuran carbofuran-3-hydroxy dimethoate dimoxystrobin ethoprophos fenamiphos fenarimol fenbuconazole fenpropimorph	



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FRUITS, VEGETABLES and HERBS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Multi-Residue Pesticide Screen covering the following compounds: (cont'd)</p> <p>fluazifop-butyl flusilazole heptenophos imazalil imidacloprid isazophos isocarbofos isofenphos-methyl malaoxon malathion mepanipyrim metalaxyl methamidophos methomyl monocrotophos omethoate oxamyl oxydemeton-methyl paclobutrazole picoxystrobin pirimifos-methyl propamocarb prometryn propanil pymetrozine pyraclostrobin pyriproxyfen simazine spinosad thiabendazole thiacloprid triadimefon triadimenol triazophos trifloxystrobin</p>	<p>Documented In-House Methods identified by method number</p> <p>PRES/069 EMR extraction + analysis by PRES/068 using LC/MS/MS (cont'd)</p>



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FRUITS, VEGETABLES and HERBS (cont'd)	<u>Chemical Tests</u> (cont'd) Multi-Residue Pesticide Screen covering the following compounds: 2-phenyl phenol azoxystrobin acephate aldrin atrazine azinphos-methyl benalaxyl bifenthrin biphenyl bitertanol bromopropylate bupirimate 3-hydroxycarbofuran buprofezin carbaryl carbofuran chlorfenvinphos chlorothalonil chlorpropham chlorpyrifos chlorpyrifos-methyl chlorthal dimethyl chlozolate cyfluthrin lambda-cyhalothrin cypermethrin cyproconazole cyprodinil deltamethrin DDT diazinon dichlofluanid dicloran dichlorvos dieldrin difenoconazole dimethoate diphenylamine endosulfan endrin ethion ethoprophos	Documented In-House Methods identified by method number PRES/005 Ethyl Acetate extraction + analysis by PRES/021 using GC-MS



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FRUITS, VEGETABLES and HERBS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Multi-Residue Pesticide Screen covering the following compounds: (cont'd)</p> <p>ethoxyquin etrimfos fenamiphos fenarimol fenhexamid fenitrothion fenpropathrin fenpropimorph fenthion fenvalerate fipronil flusilazole fonophos HCB alpha-HCH beta-HCH delta-HCH gamma-HCH heptachlor heptachlor epoxide heptenophos hexaconazole imazalil iprodione isazophos isofenphos kresoxim-methyl malaixon malathion mecarbam mepanipyrim metalaxyl methacriphos methamidophos methidathion mevinphos monocrotophos myclobutanil ofurace omethoate oxadixyl</p>	<p>Documented In-House Methods identified by method number</p> <p>PRES/005 Ethyl Acetate extraction + analysis by PRES/021 using GC-MS</p>



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FRUITS, VEGETABLES and HERBS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Multi-Residue Pesticide Screen covering the following compounds: (cont'd)</p> <p>paclobutrazol parathion-methyl parathion penconazole pendimethalin permethrin phenthoate phosalone pirimicarb phosmet phosphamidon pirimiphos-ethyl pirimiphos-methyl prochloraz procymidone propamocarb prometryn propargite propachlor propiconazole prothiophos propanil propoxur propyzamide pyrazophos pyridaphenthion pyrimethanil quinalphos quintozene simazine tebuconazole tebufenpyrad tecnazene tefluthrin tetrachlorvinphos tetradifon thiabendazole tolclophos-methyl tolylfluanid triadimefon triadimenol</p>	<p>Documented In-House Methods identified by method number</p> <p>PRES/005 Ethyl Acetate extraction + analysis by PRES/021 using GC-MS (cont'd)</p>



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FRUITS, VEGETABLES and HERBS (cont'd)	<u>Chemical Tests</u> (cont'd) Multi-Residue Pesticide Screen covering the following compounds: (cont'd) trifloxystrobin trifluralin triazophos vinclozolin Pesticide methods covering the following specific compounds:	Documented In-House Methods identified by method number PRES/005 Ethyl Acetate extraction + analysis by PRES/021 using GC-MS (cont'd)
CITRUS FRUITS	2,4 D	PRES/054 by LC-MS
PEARS	Chlormequat and Mepiquat Determination of: Abamectin Dithiocarbamates Inorganic bromide	PRES/041 using LC-MS PRES/046 by HPLC-fluorescence detection PRES/007 using GC-MS PRES/009 using GC-MS
Potato and onion only	Maleic hydrazide	PRES/011 using HPLC
Mushrooms	Nicotine	PRES/076 using LC-MS/MS
LEACHATES	<u>Chemical Tests</u> Ammonia Chloride Nitrate	Documented In-House Methods identified by method number AQUA/001 by Aqua 800 Autoanalyser and Spectrophotometric determination AQUA/002 by Aqua 800 Autoanalyser and Spectrophotometric determination AQUA/003 by Aqua 800 Autoanalyser and Spectrophotometric determination



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LEACHATES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Nitrite	AQUA/004 by Aqua 800 Autoanalyser and Spectrophotometric determination
	Orthophosphates	AQUA/005 by Aqua 800 Autoanalyser and Spectrophotometric determination
	Solids (total)	N/023 by gravimetric determination
NUTRIENT SOLUTIONS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Ammonia	AQUA/001 by Aqua 800 Autoanalyser and Spectrophotometric determination
	Alkalinity (as bicarbonate)	N/001 by Titration
	Boron, Calcium, Copper, Iron, Magnesium, Manganese, Phosphorus, Potassium, Sodium, Sulphate, Zinc	ICP/005 by ICP
	Chloride	AQUA/002 by Aqua 800 Autoanalyser and Spectrophotometric determination
	Nitrate	AQUA/003 by Aqua 800 Autoanalyser and Spectrophotometric determination
TOY TESTING - 0.07M HCl extracts	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Potentially toxic elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ICPMS/004 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)



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SOILS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number
	Conductivity	B/009 by conductivity meter
	Magnesium, extractable	B/018 extraction and ICP/006 by ICP
	pH, extractable	B/003
	Phosphorus, (Olsens-extractable)	AQUA/012 by Aqua 800 Autoanalyser and Spectrophotometric determination
	Potassium, extractable	B/018 extraction and ICP/006 by ICP
WATERS Raw and potable waters	<u>Physical Tests</u>	
	Density	B/029 by gravimetric determination
	<u>Chemical Tests</u>	
	Alkalinity (as carbonate or bicarbonate)	N/002 by potentiometric determination
	Calcium, Magnesium, Potassium, Sodium, Sulphur	ICP/005 by Inductively Coupled Plasma Spectrophotometry (ICP)
	Ammonia	AQUA/001 by Aqua 800 Autoanalyser and spectrometric determination
	Chloride	AQUA/002 by Aqua 800 Autoanalyser and spectrometric determination
	Nitrate	AQUA/003 by Aqua 800 Autoanalyser and spectrometric determination
	Nitrite	AQUA/004 by Aqua 800 Autoanalyser and spectrometric determination
	Orthophosphates	AQUA/005 by Aqua 800 Autoanalyser and spectrometric determination



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WATER - potable, processed, ground water and polluted effluents	<u>Chemical Tests</u> Low level elements: Al, Cr, Co, Mn, Fe, Ni, Cu, Zn, As, Se, Sb, Cd, Hg, Pb, Sn, Mo, Li, Be, B, Rb, Sr, Ba,	N/036 (sample extraction method) and ICPMS/009 by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
WASTEWATERS Untreated and treated domestic and industrial waste waters	<u>Chemical Tests</u> Aluminium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Potassium, Sodium, Sulphur, Zinc Ammonia Nitrate Nitrite Orthophosphates Solids (total)	ICP/003 by Inductively Coupled Plasma spectrophotometry (ICP) AQUA/001 by Aqua 800 Autoanalyser and spectrometric determination AQUA/003 by Aqua 800 Autoanalyser and spectrometric determination AQUA/004 by Aqua 800 Autoanalyser and spectrometric determination AQUA/005 by Aqua 800 Autoanalyser and spectrometric determination N/023 by Gravimetric determination
WATERS Raw and potable WASTE WATERS Untreated and treated domestic and industrial waste waters LEACHATES NUTRIENT SOLUTIONS	<u>Physical Tests</u> Conductivity pH	Documented In-House Methods identified by method number N/011 using a platinum conductivity cell N/018 measured by pH electrode
	END	