


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>1282</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<h3>ALS Laboratories (UK) Limited</h3> <p><b>Issue No: 125    Issue date: 24 June 2019</b></p>	
	<p><b>Sands Mill</b> Huddersfield Road Mirfield West Yorkshire WF14 9DQ</p>	<p><b>Contact: Alexia Masters</b> Tel: +44 (0)1924 499776 Fax: +44 (0)1924 483731 E-Mail: alexia.masters@alsglobal.com Website: www.als-testing.co.uk</p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ</p> <p><b>Local contact</b> Adam Rush  Tel: +44 (0)1354 695858 Fax: +44 (0)1354 692215 Email: adam.rush@alsglobal.com Website: www.als-testing.co.uk</p>	<p>Chemical Microbiological Group Co-ordination Activities</p>	A
<p><b>Address</b> Francis House Lords Way Kingmoor Business Park Kingstown Carlisle Cumbria CA6 4SL</p> <p><b>Local contact</b> Ian O'Mahony  Tel: +44 (0)1228 674744 Fax: +44 (0)1228 674477 Email: ian.o'mahony@alsglobal.com Website: www.als-testing.co.uk</p>	<p>Microbiological (Food and Water)</p>	B
<p><b>Address</b> First Floor Building 550 Winch Road Kent Science Park Sittingbourne Kent ME9 8EF</p> <p><b>Local contact</b> Ailsa Mould  Tel: +44 (0)1795 858290 Fax: +44 (0)1795 410784 Email: ailsa.mould@alsglobal.com Website: www.als-testing.co.uk</p>	<p>Microbiological (Food and Water)</p>	C
<p><b>Address</b> 2 Bartholemews Walk Cambridgeshire Business Park Ely Cambridgeshire CB7 4ZE</p> <p><b>Local contact</b> Sharon Hanly  Tel +44 (0)1353 660040 Fax: +44 (0)1353 660050 Email: sharon.hanly@alsglobal.com Website: www.als-testing.co.uk</p>	<p>Chemical (Pharmaceutical) Microbiological (Pharmaceutical)</p>	E



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Location details	Activity	Location code
<b>Address</b> Sands Mill Huddersfield Road Mirfield West Yorkshire WF14 9DQ <b>Local contact</b> Hannah McAlister Tel: +44 (0)1924 499776 Fax: +44 (0)1924 483731 Email: hannah.mcalister@alsglobal.com Website: www.als-testing.co.uk	Microbiological (Food) Chemical (Food)	F
<b>Address</b> 10 Sandown Centre White Horse Business Park Trowbridge BA14 0XD <b>Local contact</b> Margaret Oulsnam Tel: +44(0)1225 769050 Fax: +44(0)1225 769080 Email: margaret.oulsnam@alsglobal.com Website: www.als-testing.co.uk	Microbiological (Food and water)	G
<b>Address</b> Yeomanry Road Battlefield Enterprise Park Shrewsbury Shropshire SY1 3EH <b>Local contact:</b> Ian O'Mahony Tel: +44 (0)1743 463322 Fax: +44 (0)1743 463323 Email: ian.o'mahony@alsglobal.com	Microbiological (Food and Water) Physical (Food)	S
<b>Address</b> 7 & 8 Aspen Court Bessemer Way Templeborough Rotherham S60 1FB <b>Local contact:</b> Hannah McAlister Tel: +44 (0)1709 369699 Fax: +44 (0)1709 369639 Email: hannah.mcalister@alsglobal.com	Microbiological (Food and Water) Physical (Food)	R



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate)  (excluding cheese)	<u>Chemistry Tests</u>	Documented In-House Methods	
	Acidity	AM/C/922 by Titration	A
	Aflatoxins B1, B2, G1, G2 and Total Aflatoxins	AM/R/999 using HPLC-immunoaffinity	A
	Aflatoxin M1	AM/R/993 using HPLC-immunoaffinity	A
	Amino Acid Profile: Total	AM/V/206 using HPLC	A
	Ash	AM/C/803 based on BS 4401:Part 1:1998 and Feeding Stuffs (Sampling and Analysis) Regulations 2010	A
	Benzoic acid/sodium benzoate Sorbic acid/potassium sorbate	AM/V/757	A
	Carbohydrate: available, by difference total, by difference Starch, by difference	By calculation: AM/C/901 using the Food Labelling Regulations 1984 (SI No 1305) and Feedingstuffs Regulations 2005	A
	Chloride	AM/C/603 using Potentiometric titration based upon JAOAC 1974	A
	Cholesterol	AM/V/114 using Gas Chromatography JAOAC 1993	A
Energy	AM/C/901 by calculation using Commission Regulation (EC) 2008/100 and 90/496	A	



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd)          (Animal feeding stuffs)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
	Fat (oil)	1) AM/C/101 using Soxhlet, Method A based on Feeding Stuffs (Sampling and Analysis) Regulations 2010	A
		2) AM/C/102 using acid hydrolysis, Method B based on Feeding Stuff Regulations 2010	A
		3) AM/C/103 based on Werner-Schmidt Method BS 4401:Part 4:1970	A
		4) AM/C/104 using mixed solvents based on Bligh and Dyer Method	A
	Fatty Acid Composition/Profile - Saturated fats - Monounsaturated fats - Polyunsaturated fats - cis:trans analysis - non-normalised analysis - % actual fatty acids	AM/C/107 using Gas Chromatography based on BS EN ISO 12966-2:2017	A
	Free Fatty acid	AM/C/108 based on BS EN ISO 660:2009	A
	Fibre:		
	1) Crude	AM/C/300 using fibre-cap method - digestion	A
	2) Dietary	AM/C/302 based on Englyst method	A
3) Dietary	1) AM/C/309 based on AOAC Method No 985.29  2) AM/C/309 using the ANKOM Dietary Fibre Analyser based on AOAC method 985.29	A  A	
Hydroxyproline and Collagen	AM/C/998 using Colorimetry BS 4401:Part 11:1995	A	



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
(Fishmeal, fish food and food products excluding beer and cheese)	Histamine	AM/V/212 using HPLC with fluorescence detection	A
(Food Products and ALS-supplied environmental swab rinse liquid)	Quantitative determination of Almond	AMR/R/263 by ELISA using Bio-Check kit	A
(Food products and ALS-supplied environmental swab rinse liquid)	Quantitative determination of $\beta$ -lactoglobulin	AMR/R/262 by ELISA using Bio-Check kit	A
(Food Products and environmental swab rinse liquid)	Gluten/Gliadin content: quantitative	AM/R/253 by R5 Mendez Extraction and ELISA technique	A
(Food products and environmental swabs)	Quantitative (foods) and qualitative (swabs) determination of Casein and Caseinates	AMR/R/254 by ELISA using AgraQuant kit	A
(Excluding samples containing more than 20% Chicken)	Quantitative determination of Egg white protein (ovomuroid)	AMR/R/255 by ELISA using Bio-Check kit	A
	Quantitative determination of Soya (soya trypsin inhibitor)	AMR/R/256 by ELISA using Bio-Check kit	A
(Food products, processed and unprocessed, and environmental swabs)	Quantitative determination of Peanut	AMR/R/257 by ELISA using Bio-Check kit	A
	Quantitative determination of Mustard	AMR/R/258 by Elisa using Bio-Check kit	A
(Foods, liquids and environmental swabs excluding chia seeds, chocolate and chocolate containing products)	Quantitative determination of Sesame	AMR/R/264 by ELISA using Bio-Check kit	A
(Poultry/Turkey Feed)	Metabolisable Energy (Hartel)	By calculation: AM/C/901 Feedingstuffs Regulations 2005	A



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
(Fish and Meat Products)	Meat Content: Lean Total	By calculation: AM/C/902 by Stubbs and Moore	A
Food and Feed samples for samples containing more than 20% moisture and less than 25% sugar. Excluding herbs and spices and samples containing alcohol	Moisture content	1) AM/C/1017 by microwave drying	A
	Ochratoxin A	2) AM/C/801 based on Feeding Stuff Regulations 2000  AM/R/960 HPLC - Fluorescence detection with immunoaffinity columns	A
(Beverages)	Ethanol	AM/V/917 using GC	A
	Peroxide Value	AM/C/112 BS 684 2.14:2001	A
	Nitrogen/Protein	AM/C/224, by DUMAS technique	A
	pH	1) ESGM-C014 using pH meter	A
		2) ACP 037 based on BS 4401: Part 9:1975 and BS 770: Part 5:1976	S, R
(Animal Feeds and Cereal Based Foods)	Starch	AM/C/401 using Polarimetric technique based on EC Directive 79/1999/EC	A
	Sugars - Totals	AM/C/403 based on Luff-Schoorl Method and Feeding (Sampling and Analysis) Regulations 2010	A
(Food products and pure sugars)	Sugars – Total and Individual: Fructose, Galactose, Glucose, Lactose, Maltose, Sucrose	AM/C/1014 by Ion exchange chromatography	A



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
Food, Food Products, Feed, Pet Food and Sweeteners	Polyols: Erythritol, Inositol, Isomalt, Lactitol, Maltitol, Mannitol, Sorbitol, Xylitol	AM/C/409 using ion exchange chromatography with pulsed electrochemical detection	A
	Sulphur dioxide	AM/C/925 based on Monier Williams procedure	A
	Tryptophan, Total	AM/V/228 using HPLC based on Official Journal of the European communities, directive 2000-45-EC	A
(Meat and meat Products)	Water: Added	By calculation: AM/C/902 Meat Products and Spreadable Fish Products Regulations 1984 (SI No 1566)	A
	Total Fat and Moisture	AM/C/1015 by oven drying and Pulsed NMR	A
	Metals: Calcium Copper Iron Magnesium Manganese Phosphorus Potassium Sodium (including as salt by calculation) Zinc	AM/C/1002 using ICP-OES	A
Meat, meat products, brine, vegetables, animal feeds and baby foods	Determination of the nitrite and nitrate content	AM/V/1004 using high performance anion exchange chromatography based on BS EN 12014-4:2005	A



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FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate)  (Fish and Meat Products)  (Fruits, vegetables, fungi and cereals)  High water content; High acid and high water content; High sugar and low water content; High oil content and intermediate water content; High starch and/or protein content and low water and fat content	<u>Chemistry Tests</u> (cont'd)  Pesticide Residues:	Documented In-House Methods	
	Dithiocarbamates (as CS <sub>2</sub> )	AM/R/240 using GCMS	A
	Ivermectin	AM/R/206 using HPLC	A
	Chlormequat and Mepiquat	AM/R/231 using LC-MS	A
	Pesticide multi-residue screen and quantitation – See Appendix 1 at end of this schedule for the list of pesticides covered	AM/R/110 using GC-MS; flame photometric detection; HPLC fluorescence	A
	Identification, quantification and confirmation of pesticide residues  See Appendix 2 at end of this schedule for the list of pesticides covered	AM/R/1003 QuEChERS extraction with LC-MS/MS and GC-MS/MS Detection	A
Sudan red, Para Red and Butter Yellow Dyes  DAIRY PRODUCTS (as specified)  Milk and Cream  Cows' milks (whole, partly/fully skimmed), buttermilk, creams, non-cultured dairy products	<u>Chemical/Physical Tests</u>  Phosphatase	AM/R/244 using LC-MS/MS  1) ESGM C007 by the Aschaffenburg and Mullen (A&M) Method  2) ESGMC008 by Fluorophos (excluding testing for reactivation and microbial phosphatase)	A  F  F





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FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate) (cont'd)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
Milk, Cream and Cheese	Fat content	ESGM C011 based on Gerber method BS 696:Parts 1 and 2:1989 (withdrawn)	F
Milk, Butter, Cream and Condensed Milk	Determination of Fat	ESGM C018 by Rose Gottlieb	F
Butter and Cheese	Salt content	ESGM C017 (Chloride Meter)	F
Cheese	Fat in dry matter (by calculation)	ESGM C015/ESGM C011/ ESGM C016	F
Milk, Butter and Cheese	pH	ESGM C014 using pH meter	F
Cheese	Moisture content (and dry matter, by calculation)	ESGM C015 (microwave method)	F
Butter, Cheese and Concentrate Milk samples	Moisture content (and dry matter, by calculation)	ESGM C016 by oven drying	F
Butter	Total Solids	By calculation: ESGM-C016	F
ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, DRINKS, PHARMACEUTICAL PRODUCTS, e.g. CAPSULES, PASTILLES AND TABLETS, MEDICATIONS (restricted matrices specified as appropriate)	Vitamin A (Retinol) Vitamin E (Alpha tocopherol)	AM/V/702 using HPLC based on Analyst, August 1985, based on Volume 11, 110 and Pure and Applied Chemistry, 1988, Volume 60, p878-892	A
(Excluding Silage)	Beta Carotene	AM/V/906 using HPLC	A
(Excluding pharmaceutical products)	Vitamin B <sub>3</sub> complex (Nicotinic acid and Nicotinamide)	AM/V/751 using HPLC	A



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, DRINKS, PHARMACEUTICAL PRODUCTS, e.g. CAPSULES, PASTILLES AND TABLETS, MEDICATIONS (restricted matrices specified as appropriate) (cont'd)	<u>Chemistry Tests</u> (cont'd)	Documented In-House Method		
	Vitamin B <sub>1</sub> (Thiamine) Vitamin B <sub>2</sub> (Riboflavin)	AM/V/703 using HPLC	A	
	(Excluding pharmaceutical products or drinks)	Vitamin B <sub>6</sub> (Pyridoxine)	AM/V/752 using HPLC	A
		Vitamin B <sub>12</sub> (Cyanocobalamin)	AM/V/754, Biacore Instrumentation	A
	(Excluding vegetable products)	Vitamin B complex (Free Folic Acid)	AM/V/1006 by immunoaffinity assay with HPLC detection	A
		Vitamin C (Ascorbic acid)	AM/V/710 using HPLC	A
	(Excluding pharmaceutical products or drinks)	Vitamin B <sub>6</sub> (Pyridoxine)	AM/V/752 using HPLC	A
		Vitamin C (Ascorbic acid)	AM/V/710 using HPLC	A
		Vitamin D <sub>2</sub> & D <sub>3</sub> (Cholecalciferol & Ergocalciferol)	AM/V/723 using HPLC	A
	(Premixes, Supplements, Tablets and Pastilles)	Vitamin D <sub>2</sub> & D <sub>3</sub> (Cholecalciferol & Ergocalciferol)	AM/ V/707 using HPLC	A
(Premixes, Supplements, Tablets and Raw Materials)	Vitamin E (Alpha tocopherol acetate)	AM/V/715 using HPLC	A	
	Biotin	AM/V/753 using Biacore instrumentation	A	



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MEATS, COOKED AND RAW	<u>Molecular Testing</u> Detection of mitochondrial DNA from the following species:  Chicken Cow Horse Pig Sheep Turkey	In-house methods AM/R/1001 and AM/R/1002 using Real Time Polymerase Chain reaction (RT-PCR)	A
ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS	<u>Physical Tests</u> Water activity	ACP 040 using water activity meter	S, R
Raw and cooked meats, dairy products, vegetables, environmental swabs	<u>Molecular Biology Tests</u> Detection of <i>Escherichia coli</i> O157:H7 DNA	Documented In-House Method  ACP052 with primary enrichment in mEHEC broth, magnetic immune-concentration and real-time PCR using Assurance Genetic Detection System (GDS) Confirmation using SM065	R
FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified)	<u>Microbiological Tests</u>  <u>Enumeration:</u>  <i>Bacillus cereus</i> , presumptive	Documented In-House Methods:  1) ESGMM319 using PEMBA at 37°C for 24 hours and ambient additional 24 hours  2) ESGMM333 based on ISO 7932:2004 using MYP agar	A, B, C, F, G, S, R  A, B, C, F, G, S, R
(Raw and cooked poultry at Location F, raw poultry only at Location A, food, food products and environmental swabs at Location R)	<i>Campylobacter</i> spp (thermotolerant)	ESGMM325 based on ISO/TS 10272-2:2006	A, F, R



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FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	<u>Enumeration:</u> (cont'd)		
	<i>Clostridium perfringens</i> , and <i>Clostridium</i> spp	ESGMM310, using TSC agar based on BS EN ISO 7937:2004 with confirmation by biochemical tests at Locations B, S, R & N only	A, B, C, F, G, S, R
	Coliforms, presumptive	ESGMM302 based on BS EN ISO 4832:2006 at 37°C for general food and swabs and 30°C for dairy products	A, B, C, F, G, S, R
	Coliforms and <i>Escherichia coli</i>	KM28 Client specified method using chromogenic agar	B
	Enterococci, presumptive	1) ESGMM314 based on BS 4285-3.11:1985 2) MP 12 by spread plate technique at 37°C or 44°C using Slanetz and Bartley Agar	A, C, F S, R
(Animal by Product materials)	Enterobacteriaceae, presumptive	1) ESGMM303 based on BS ISO 21528-2:2017 for the purpose of the Animal By-Products (Enforcement) (England) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/11	A, G
		2) Method ESGMM303 based on BS ISO 21528-2:2017 with confirmation by biochemical tests at Locations B, S, R & N only	A, B, C, F, G, S, R
	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	ESGMM304 using TBX pour plate based on BS ISO 16649- 2:2001	A, B, C, F, G, S, R



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	<i>Listeria</i> spp and <i>Listeria monocytogenes</i>	ESGMM321 based on BS EN ISO 11290-2:2017 and confirmation using using oxidase, catalase, Gram stain and biochemical tests (ESGMM531) or by MALDI-TOF (SM 101/102) at Locations S & R only	A, B, C, F, G, S, R
	Mesophilic aerobic and anaerobic spores	ESGMM316 Client specified method	A
	<i>Pseudomonas</i> species, presumptive	ESGMM312 based on BS EN ISO 13720:2010	A, B, C, F, G, S, R
	Coagulase positive Staphylococci, confirmed	1) ESGMM307 based on BS EN ISO 6888-1:1999 confirmed by either RPF or Oxoid Staphylect latex agglutination  2) ESGMM307 based on BS EN ISO 6888-1:1999 confirmed by coagulase plasma tube reaction	A, B, C, F, G,  S, R
	Sulphite reducing bacteria	3) MP104 using spread plate technique and Rabbit Plasma Fibrinogen (RPF) Agar  ESGMM331 based on BS ISO 15213:2003	S  S, R



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FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)	<u>Microbiological Tests</u> (cont'd) <u>Enumeration:</u> (cont'd) Sulphite reducing Clostridia	Documented In-House Methods  ESGMM331 based on BS ISO 15213:2003, genus level confirmation by obligate anaerobic growth and Gram stain	S
(environmental swabs at locations A, S & R only)	Total Aerobic Colony Count: 3 days, 30°C	ESGMM300 based on BS EN ISO 4833-1:2013	A, B, C, F, G, S, R
	Total Aerobic Colony Count: 2 days, 30°C	ESGMM300 using PCA pour plate technique	A, B, C, F, G, S, R
(excluding environmental swabs)	Total Aerobic Colony Count: 3 days, 22°C 2 days, 37°C	ESGMM300 using PCA pour plate techniques at the temperatures and times specified	A, B, C, F, G
	Total Aerobic colony count: 22°C for 72h 30°C for 48h 37°C for 24h 37°C for 48h	ESGMM300 using pour plate technique with PCA, MPCA or Orange Serum Agar incubated as per client requirements	S, R
(environmental swabs at location A only)	Total Aerobic Colony Count: 1 day, 37°C	ESGMM300 using PCA pour plate technique	A, B, C, F, G
	Thermophilic Aerobic Colony Count: 55°C for 24h 55°C for 48h	ESGMM300 using pour plate technique and PCA incubated as per client requirements	S, R



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<p>FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)</p> <p>(environmental swabs at locations F, S &amp; R only)</p> <p>(excluding environmental swabs)</p> <p>(excluding environmental swabs)</p> <p>(excluding environmental swabs)</p> <p>(dairy products at location F only)</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p><u>Enumeration:</u> (cont'd)</p> <p>Yeasts and Moulds:</p> <p><u>Detection:</u></p> <p><i>Campylobacter</i> spp, confirmed</p> <p>Enterobacteriaceae, presumptive</p>	<p>Documented In-House Methods</p> <p>1) ESGMM308 based on BS ISO 21527-1:2008</p> <p>2) ESGMM315 using DG18 agar (high sugar products only) based on BS ISO 21527-2:2008</p> <p>3) ESGMM309 client specified method using OGYE incubated at 25°C for 5 days</p> <p>4) KM46 client specified method using Phytone Yeast Extract agar incubated at 25°C for 3 days</p> <p>1) ESGMM500 using Preston Enrichment Broth at 37°C for 48 hours onto CCDA agar at 41.5°C for 48 hours</p> <p>2) MP 19 with enrichment in Preston broth and selective plating on CCDA confirmed by biochemical tests and latex agglutination or identification to genus level by MALDI-TOF (SM 101/102) for Location R only</p> <p>ESGMM563 based on BS EN ISO 21528-1:2004</p>	<p>A, B, F, G, S, R</p> <p>B, C, F, S, R</p> <p>B, C, S</p> <p>B</p> <p>A, F</p> <p>S, R</p> <p>B, F</p>



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FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)	<u>Microbiological Tests</u> (cont'd)  <u>Detection:</u> (cont'd)  <i>Escherichia coli</i> O157	Documented In-House Methods	
		1) AMM382 modified in-house method using one selective media at 41.5°C for 18 hours	A
		2) MP 62 using Pathatrix Auto system for IMS concentration of enrichment culture incubated at 37°C followed by plating on CTSMAC with confirmation by API20E and <i>E. coli</i> O157 Latex	S
		3) MP 124 Using VIDAS UP (ECPT) with confirmation by API20E and <i>E. coli</i> O157 Latex	R
Finished products and raw material including flavourings, oats, wheat, chocolate dried fruits and nuts	<i>Escherichia coli</i> ( $\beta$ -glucuronidase positive)	1) ESGMM561 customer specified method based on ISO 16649-3:2015	A, B, F, G
		2) AMM446 customer specified method using MacConkey broth enrichment and recovery on TBX agar	A
GOS Syrup, Peanut Butter, Infant formula and sponge swabs	<i>Cronobacter sakazakii</i>	PHARM-M011 based on BS EN ISO 22964:2017 with confirmation by biochemical tests	E





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	<u>Detection:</u> (cont'd)		
	<i>Listeria monocytogenes</i> and other named <i>Listeria</i> species	1) ESGMM522 based on BS EN ISO 11290-1:2017	A, C, F, G, S, R
	<i>Listeria monocytogenes</i> and other named <i>Listeria</i> species	2) KM61 using BioMerieux VIDAS LIS, and confirmation with ESGMM531	B
	<i>Listeria monocytogenes</i> and other named <i>Listeria</i> species	3) ESGMM523 using Solus ELISA kit method and DYNEX equipment	A, B, C F, G, S, R
	<i>Listeria</i> species confirmation and identification	1) ESGMM531 using oxidase, catalase, Gram stain and biochemical tests	A, B, C, F, G, S, R
		2) SM 101/102 species identification by MALDI-TOF	S, R
Presumptive <i>Listeria</i> culture isolates (from food and environmental samples)	Confirmation of named <i>Listeria</i> species: <i>L. monocytogenes</i> , <i>L. innocua</i> , <i>L. welshimeri</i> , <i>L. grayi</i> , <i>L. seeligeri</i> , <i>L. ivanovii</i>	ESGMM532 using the VITEK (V2) MS MALDI TOF instrument with Locations A, B, C, F, G & H preparing isolate for submission to A followed by local reporting	A
(swabs at location B only)	Coagulase Positive Staphylococci	ESGMM562 based on BS EN ISO 6888-3 2003	A, B, F



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)  (Animal By-Products materials)  (including feeds and carcass swabs at Locations S & R)	<u>Microbiological Tests</u> (cont'd)  <u>Detection:</u> (cont'd)  <i>Salmonella</i> spp	Documented In-House Methods  1) ESGMM511 based on BS EN ISO 6579-1:2017 for the purpose of the Animal By-Products (Enforcement) (England) Regulation (ABPR) 2013 (amended 2015) implementing Regulation (EU) No 142/11  2) ESGMM511 based on BS EN ISO 6579-1:2017  3) ESGMM515 using Solus ELISA Kit method and DYNEX equipment  4) KM60 using BioMerieux VIDAS SLM, dual selective enrichment, confirmation by BioMerieux API 20E  5) MP 20 based on Nordic Committee on Food Analysis, Method No 71, 5 <sup>th</sup> Edition; 1999 using single stage enrichment in RVS broth and selective plating using XLD and Brilliant Green Agar	A, G  A, B, C, F, G, S, R  A, B, C, F, G, S, R  B  S, R
	<i>Salmonella</i> confirmation	1) ESGMM517 by oxidase, poly O and poly H antisera and biochemical tests (API 20E)  2) Identification by MALDI-TOF (SM 101/102)	A, B, C, F, G, S, R  R
	<i>Vibrio parahaemolyticus</i>	ESGMM551 based on BS EN ISO 21872-1:2017	A, R
	<i>Vibrio cholerae</i>	ESGMM551 based on BS EN ISO 21872-1:2017	R



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES Exposed contact plates, settle plates, or plates from air samplers (incubated and enumerated as received)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	<u>Enumeration:</u>	ESGMM322 with medium and incubation as specified for the target organisms:	
	Aerobic Colony Count	PCA, 30°C for 48 hours	A, F, G, S, R
	Coagulase Positive Staphylococci	BP, 37°C for 48 hours	S, R
	<i>Escherchia.coli</i> (β-glucuronidase positive)	TBX, 44°C for 18-24 hours	S, R
	Enterobacteriaceae (presumptive)	VRBGA, 37°C for 24 hours	S, R
	<i>L monocytogenes</i> and other <i>Listeria</i> spp including species identification	Using ALOA, 37°C 18-24 hours	S, R
	<i>Pseudomonas</i> spp. (presumptive)	CFC agar, 25°C for 44 hours	S, R
	Yeasts and Moulds	DRBC agar, 25°C for 5 days	A, F, G, S, R
	PHARMACEUTICAL PRODUCTS - FINISHED AND RAW MATERIALS	<u>Detection:</u>	In house methods based on European Pharmacopoeia
Clostridia spp		] ESGMM700	
<i>Pseudomonas</i> spp			
<i>Salmonella</i> spp			
<i>Staphylococcus aureus</i>			
Enterobacteriaceae			
<i>Escherichia coli</i>			
<u>Enumeration:</u>			
Total viable count (including yeasts and moulds)	ESGMM700	E	



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PHARMACEUTICAL PRODUCTS – Raw, Intermediate and Finished Products	<u>Microbiology Tests</u> (cont'd)	Documented In-house Methods	
	Preservative Efficacy Test	AMM380	E
PURIFIED WATERS (including washer-disinfectant endoscope rinse water) and WATER FOR INJECTION	Total Aerobic Colony Count	AMM362 in house method based on based on HTM 2030 (Archived) and HTM 01-01 Part D and HTM 01-06 Part E	E
	<u>Biological Tests</u>		
PHARMACEUTICAL PRODUCTS – Raw, Intermediate and Finished Products	Bacterial Endotoxin	1) PHARM-M008 based on the Gel Clot Assay	E
		2) PHARM-M018 kinetic turbidimetric quantitative assay using Pyros Kinetic Flex system (Associates of Cape Cod International)	E
	<u>Chemical Tests and Physical Tests</u>		
	Acidity Alkalinity Aluminium Ammonium Calcium Calcium and Magnesium (hardness) Character/Appearance/particulate matter (visual assessment) Carbon dioxide Chloride Nitrate Sulphate	Documented In-House Method CHEM 123 based on current BP, EP, USP qualitative analysis and HTM 2030/2031 NHS guidelines where specified	E
	Heavy metals - expressed as Lead	Documented In-House Method CHEM 123 based on current BP, EP and USP qualitative analysis	E
	Oxidisable substances	Documented In-House Method CHEM 123 based on current BP, EP and USP qualitative analysis	E



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PURIFIED WATERS (including washer-disinfector endoscope rinse water) and WATER FOR INJECTION (cont'd)	<u>Chemical Tests and Physical Tests</u> (cont'd)	Documented In-house Methods	
	Organic Carbon: Total	CHEM 125 based on current USP/BP/EP	E
	Conductivity	CHEM 128 based on current USP/BP/EP and HTM 2030/2031 NHS guidelines	E
	pH	CHEM 022 based on current USP/BP/EP and HTM 2030/2031 NHS guidelines	E
	Total Solids/Residue on Evaporation	CHEM 037 based on current BP/EP methods and HTM 2030/2031 NHS guidelines	E



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<b>WATERS</b>  Drinking (regulatory tap water; private and public supplies)	<u>Microbiological Tests</u>  Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2000 [SI 2000/3184]. In accordance with the Drinking Water Testing Specification (DWTS)	Documented In-House Procedures based on/ incorporating procedures in the HMSO publication "The Microbiology of Drinking Water - Methods for the Examination of Water and Associated Materials	
	Coliforms, presumptive and confirmed , <i>Escherichia coli</i> , presumptive and confirmed	ESGMM107 using membrane filtration onto MLGA based on the MDW 2016, Part 4B	G
	Aerobic Colony Counts: 1 day, 37°C 2 days, 30°C 2 days, 37°C 3 days, 22°C	ESGMM100, pour plate using YEA based on the MDW 2012, Part 7A	G
	Enterococci, presumptive and confirmed	ESGMM106 by membrane filtration based on the MDW 2012, Part 5A	G
	<i>Clostridium perfringens</i> , confirmed	ESGMM105 by membrane filtration using TSC based on the MDW 2015, Part 6B	G
	Sulphite-reducing Clostridia	ESGMM104 by membrane filtration using TSC based on the MDW 2015, Part 6A	G
	<i>Pseudomonas aeruginosa</i> , confirmed	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	G



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code		
WATERS (cont'd)  Drinking (non regulatory), Bottled and Process Waters	<u>Microbiological Tests</u> (cont'd)	Documented in House Methods based on The Microbiology of Drinking Water Blue Books			
	<u>Enumeration:</u>				
	Coliforms, presumptive <i>Escherichia coli</i> , presumptive			ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, B, C, F, G, S, R
	Coliforms, <i>Escherichia coli</i> , confirmed			ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, B, C, G, S, R
	Aerobic Colony Counts:			ESGMM100, pour plate using YEA based on MDW 2007, Part 7A	A, B, C, F, G, S, R
	2 days, 37°C				
	3 days, 22°C				
	1 day, 37°C				
	2 days, 30°C			A, B, C, F, G, S, R	
	Enterococci presumptive			ESGMM106 by membrane filtration based on MDW 2012, Part 5A	A, C, F, G, S, R
Enterococci confirmed	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	B, C, G, S, R			
<i>Clostridium perfringens</i> , (presumptive)	ESGMM105 by membrane filtration based on MDW 2015, Part 6B	A, B, C, F, G, R			
<i>Clostridium perfringens</i> , confirmed	ESGMM105 by membrane filtration based on MDW 2015, Part 6B	B, C, G, R			
Sulphite-reducing Clostridia	ESGMM104 by membrane filtration using TSC based on MDW 2015, Part 6A	A, B, C, F, G, S, R			
<i>Pseudomonas aeruginosa</i> , presumptive	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	A, B, C, F, G, S, R			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)  Drinking (non regulatory), Bottled and Process Waters (cont'd)	<u>Microbiological Tests</u> (cont'd)  <u>Enumeration:</u> (cont'd)  <i>Pseudomonas aeruginosa</i> , confirmed  <i>Pseudomonas</i> spp, presumptive	Documented in House Methods based on The Microbiology of Drinking Water Blue Books  ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B  ESGMM110 by membrane filtration using CFC agar incubated at 30°C for 48 hours	B, C, G, S, R  C, R
Ground Waters	Coliforms, presumptive <i>Escherichia coli</i> , presumptive  Coliforms, <i>Escherichia coli</i> , confirmed  Aerobic Colony Counts:  2 days, 37°C 3 days, 22°C  1 day, 37°C  2 days, 30°C  Enterococci, presumptive  Enterococci, confirmed  <i>Clostridium perfringens</i> , (presumptive)  <i>Clostridium perfringens</i> , confirmed	ESGMM107 using MLGA Based on the MDW 2016 Part 4B  ESGMM107 using MLGA Based on the MDW 2016 Part 4B  ESGMM100, pour plate using YEA based on MDW 2007, Part 7A  ESGMM106 by membrane filtration based on MDW 2012, Part 5A  ESGMM106 by membrane filtration based on MDW 2012, Part 5A  ESGMM105 by membrane filtration based on MDW 2015, Part 6B  ESGMM105 by membrane filtration based on MDW 2015, Part 6B	A, B, C, F, G, S  A, B, C, G, S  A, B, C, F, G, S  A, B, C, F, G, S  A, C, F, G, S  B, C, G, S  A, B, C, F, G  B, C, G





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WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented in House Methods based on The Microbiology of Drinking Water Blue Books	
Ground Waters (cont'd)	<u>Enumeration:</u> (cont'd)		
	Sulphite-reducing Clostridia	ESGMM104 by membrane filtration using TSC based on MDW 2015, Part 6A	A, B, C, F, G, S
	<i>Pseudomonas aeruginosa</i> , presumptive	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	A, B, C, F, G, S
	<i>Pseudomonas aeruginosa</i> , confirmed	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	B, C, G, S
Recreational (man-made) and Surface Waters	Coliforms, presumptive <i>Escherichia coli</i> , presumptive	ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, B, C, F, G
	Coliforms, <i>Escherichia coli</i> , confirmed	ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, B, C, G
	Aerobic Colony Counts:	ESGMM100, pour plate using YEA based on MDW 2007, Part 7A	A, B, C, F, G
	2 days, 37°C 3 days, 22°C		
	1 day, 37°C		A, B, C, F, G
	2 days, 30°C		A, B, C, F, G
	Enterococci, presumptive	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	A, C, F, G
	Enterococci, confirmed	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	B, C, G
	<i>Clostridium perfringens</i> , (presumptive)	ESGMM105 by membrane filtration based on MDW 2015, Part 6B	A, B, C, F, G



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WATERS (cont'd)  Recreational (man-made) and Surface Waters (cont'd)	<u>Microbiological Tests</u> (cont'd)  <u>Enumeration:</u> (cont'd)  Sulphite-reducing Clostridia	Documented in House Methods based on The Microbiology of Drinking Water Blue Books  ESGMM104 by membrane filtration using TSC based on MDW 2015, Part 6A	A, B, C, F, G
	<i>Pseudomonas aeruginosa</i> , presumptive	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	A, B, C, F, G
	<i>Pseudomonas aeruginosa</i> , confirmed	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	B, C, G
		Documented In-House Methods	
Process Waters, Recreational (both manmade and natural), and Pure, Drinking waters at location N only	<i>Legionella</i> spp, presumptive and identification of <i>Legionella</i> spp: <i>Legionella pneumophila</i> sg 1, 2-15 and species	BIO 114 based on BS 6068-4.12:1998 / ISO 11731:1998	C, G
ENVIROMENTAL SWABS	<i>Legionella</i> spp, presumptive and identification of <i>Legionella</i> spp: <i>Legionella pneumophila</i> sg 1, 2-15 and species	BIO 114 based on BS 6068-4.12:1998 / ISO 11731:1998	C
Process Waters	<u>Detection:</u>  <i>L. monocytogenes</i> and other <i>Listeria</i> spp	ESGMM523 using Solus ELISA	S, R
	<i>Listeria</i> species confirmation and identification	1) ESGMM531 using oxidase, catalase, Gram stain and biochemical tests  2) SM 101/102 identification by MALDI-TOF	S, R  S, R



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
Process Waters (cont'd)	<u>Detection:</u> (cont'd)		
	<i>Salmonella</i> spp.	ESGMM515 using Solus ELISA	S, R
	<i>Salmonella</i> confirmation	1) ESGMM517 by oxidase, Poly O and poly H antisera and biochemical tests (API 20E)	S, R
		2) SM 101/102 confirmation by MALDI-TOF	R

**Appendix 1:**

**Pesticides in Fruits, Vegetables, Fungi and Cereals determined by AM/R/110 using GC-MS; flame photometric detection; HPLC fluorescence**

Acephate	Dichlorvos	Imazalil	Pirimiphos-methyl
Aldrin	Dicloran	Iodofenfos	Prochloraz
Atrazine	Dicofol	Iprodione	Procymidone
Azinphos-ethyl	Dicrotophos	Isazophos	Profenophos
Azinphos-methyl	Dieldrin	Isoprocarb	Prometryn
Azoxystrobin	Difenoconazole	Kresoxim-methyl	Propachlor
Benalaxyl	Dimethoate	lambda cyhalothrin	Propargite
Bifenthrin	Dimethomorph	Malathion	Propham
Bitertanol	Diphenylamine	Mepanipyrim	Propiconazole
Boscalid	Endosulfan	Metalaxyl	Propyzamide
Bromophos	Endrin	Metalaxyl-M	Prothiofos
Bromophos-ethyl	Ethion	Metazachlor	Pyrazophos
Bromopropylate	Ethofumesate	Methacrifos	Pyridaphenthion
Bromuconazole	Ethoprophos	Methamidophos	Pyrimethanil
Bupirimate	Etridiazole	Methidathion	Quinalphos
Buprofezin	Etrimfos	Methoxychlor	Quintozene
Cadusafos	Fenarimol	Mecarbam	Simazine



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**Appendix 1 (cont'd):**

**AM/R/110 using GC-MS; flame photometric detection; HPLC fluorescence**

Carbofuran (parent molecule)	Fenchlorphos	Metribuzin	Sulfotep
Carbophenothion	Fenitrothion	Mevinphos	Tebuconazole
Carbosulfan	Fenpropathrin	Monocrotophos	Tecnazene
Chlordane	Fenpropimorph	Myclobutanil	Tefluthrin
Chlorfenvinphos	Fensulfothion	Napropamide	Terbutylazine
Chlorothalonil	Fenthion	Nuarimol	Terbutryn
Chlorpropham	Fenvalerate	Ofurace	Tetradifon
Chlorpyrifos	Fipronil	Omethoate	Tetrachlorvinphos
Chlorpyrifos-methyl	Fluazifop-P-butyl	Oxadixyl	Tetramethrin
Chlorthal-dimethyl	Flucythrinate	Paclobutrazol	Thiabendazole
Chlorthion	Flusilazole	Parathion	Tolclofos-methyl
Chlozolinat	Fonofos	Parathion-methyl	Tolyfluand
Cyanazine	Furalaxyl	Penconazole	Triadimefon
Cyfluthrin	Furathiocarb	Pendimethalin	Triadimenol
Cypermethrin	Heptachlor	Permethrin	Trifloxystrobin
Cyproconazole	Heptenophos	Phenthoate	Triazophos
DDT	Hexachlorobenzene (HCB)	Phosalone	Trifluralin
Deltamethrin	Hexachlorocyclohexane-alpha	Phosmet	Vinclozolin (parent molecule)
Desmetryn	Hexachlorocyclohexane-beta	Phosphamidon	Zoxamide
Diazinon	Hexachlorocyclohexane-gamma	Pirimicarb	
Dichlofluanid	Hexaconazole	Pirimiphos-ethyl	



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**Appendix 2:**

**Pesticides in foods and food products containing: high water content; high acid and high water content; high sugar and low water content; high oil content and intermediate water content; high starch and/or protein content and low water and fat content as determined by AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Acephate	1,4-Dimethylnaphthalene
Acetamiprid	Acetochlor
Aldicarb-sulfone	Acibenzolar-S-methyl
Aldicarb-sulfoxide	Acrinathrin
Amidosulfuron	Alachlor
Aminocarb	Aldrin
Atrazine	Ametryn
Azaconazole	Antraquinone
Azamethiophos	Atraton
Azoxystrobin	Atrazine
Beflubutamid	Azaconazole
Benalaxyl	Azinphos-methyl
Bendiocarb	Azoxystrobin
Benzoximate	Benalaxyl
Bifenazate	Benfluralin
Bifenthrin	Bifenox
Bixafen	Bifenthrin
Boscalid	Biphenyl
Bromacil	Bitertanol
Bupirimate	Bromocyclen
Buprofezin	Bromophos
Butralin	Bromophos-ethyl
Carbaryl	Bromopropylate
Carbendazim	Bromuconazole
Carbetamide	Bupirimate
Carboxin	Buprofezin
Carfentrazone-ethyl	Butralin
Chlorantraniliprole	Cadusafos
Chlorfenvinphos	Carbofuran
Chloridazon	Carbophenothion
Chlorothiophos	Chinomethionat
Chlorotoluron	Chlordane, cis-
Chloroxuron	Chlordane, trans-
Chlorpyrifos	Chlorfenson
Chlorpyrifos-methyl	Chlorfenvinphos



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**Appendix 2 (cont'd)**

**AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Chlorsulfuron	Chlormefos
Cinidon-ethyl	Chlorobenzilate
Clomazone	Chloroneb
Coumaphos	Chloropropylate
Crufomate	Chlorpropham
Cyanazine	Chlorpyrifos
Cycluron	Chlorpyrifos Methyl
Cyflufenamid	Chlorthal-dimethyl
Cymiazol HCl	Chlorthion
Cymoxanil	Chlozolinate
Cyproconazole	Climbazole
Cyprodinil	Cloquintocet-mexyl
DEET	Crimidine
Demeton-S-methyl-sulfone	Cyanofenphos
Desmedipham	Cyanophos
Desmethyl-pirimicarb	Cyfluthrin Sum
Desmetryn	Cyhalothrin (lambda)
Diazinon	Cypermethrin
Dichlorvos	Cyproconazole
Diclofop-methyl	Cyprodinil
Dicrotophos	DDD, o,p'-
Diethofencarb	DDD, p,p'-
Difenoconazole	DDE, o,p'-
Diflubenzuron	DDE, p,p'-
Dimethachlor	DDT, o,p'-
Dimethenamide	DDT, p,p'-
Dimethoate	Deltamethrin
Dimethomorph	Desmetryn
Dimethylvinphos	Di-allate
Dimoxystrobin	Diazinon
Diniconazole	Dichlobenil
Dinotefuran	Dichlofenthion
Dioxacarb	Dichlorvos
Diphenamid	Diclobutrazol
Disulfoton-sulfone	Diclofop methyl
Disulfoton-sulfoxide	Dicloran
Emamectin	Dicofol



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**Appendix 2 (cont'd)****AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Epoxiconazole	Diclotophos
Ethidimuron(Sulfadiazole)	Dieldrin
Ethiofencarb	Dimethomorph
Ethiofencarb-Sulfone	Dioxabenzofos
Ethiofencarb-sulfoxide	Dipropetryn
Ethion	Edifenphos
Ethirimol	Endosulfan (alpha isomer)
Ethofumesate	Endosulfan (beta isomer)
Ethoprophos	Endosulfan sulfate
Etofenprox	Endrin
Fenamidone	EPN
Fenamiphos	EPTC
Fenamiphos-sulfone	Etaconazole
Fenamiphos-sulfoxide	Ethofumesate
Fenbuconazole	Ethoprophos
Fenchlorphos-oxon	Etoxazole
Fenhexamid	Etridiazole
Fenobucarb	Etrimfos
Fenoxaprop-P-ethyl	Famphur
Fenoxycarb	Fenarimol
Fenpropathrin	Fenchlorphos
Fenpropidin	Fenchlorvos-oxon
Fenpropimorph	Fenitrothion
Fenpyroximate	Fenpiclonil
Fenthion	Fenpropathrin
Fenthion-sulfone	Fenpropimorph
Fenthion-sulfoxide	Fenson
Fenuron	Fenvalerate
Flamprop-isopropyl	Flamprop-isopropyl
Fluazinam	Fluazifop-p-butyl
Flufenacet	Flucythrinate
Flufenoxuron	Fludioxonil
Flumetsulam	Flurpirimidol
Flumorph	Flusilazole
Fluometuron	Flutolanil
Fluoxastrobin	Flutriafol
Flupyrulfuron-methyl	Fluvalinate-tau



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**Appendix 2 (cont'd)****AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Flurtamone	Fonofos
Flusilazole	Furalaxyl
Flutolanil	Furathiocarb
Formothion	HCB
Fosthiazate	HCH-alpha isomer
Fuberidazole	HCH-beta isomer
Furalaxyl	HCH-delta isomer
Furathiocarb	Heptachlor
Guthion	Heptachlor endo-epoxide (trans)
Haloxypop-methyl	Heptachlor exo-epoxide (cis)
Hexaconazole	Heptenophos
Hexazinone	Hexaconazole
Hexythiazox	Imazalil
Imazalil	Iodofenphos
Imidacloprid	Iprodione
Iodosulfuron-methyl	Isazophos
Ipconazole	Isobenzan
Iprobenfos	Isodrin
Iprovalicarb	Isofenphos
Isoprothiolane	Isoprocab
Isoproturon	Isxadifen-ethyl
Isopyrazam	Isoxathion
Isoxaben	Kresoxim-methyl
Kresoxim-methyl	Leptophos
Lenacil	Lindane (HCH-gamma)
Linuron	Malaoxon
Malaoxon	Malathion
Malathion	MCPA thioethyl
Mandipropamid	Mefenapyr-diethyl
Mecarbam	Mepanipyrim
Mephosfolan	Metalaxyl
Mepronil	Metazachlor
Metaflumizone	Metconazole
Metalaxyl	Methacrifos
Metamitron	Methamidophos
Metazachlor	Methidathion
Metconazole	Metribuzin





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**Appendix 2 (cont'd)****AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Methabenzthiazuron	Mevinphos
Methacrifos	Mirex
Methamidophos	Monocrotophos
Methidathion	Myclobutanil
Methiocarb	Napropamide
Methiocarb-sulfone	Nitrofen
Methiocarb-sulfoxide	Nitrothal-isopropyl
Methomyl	Nuarimol
Methoprottryne	Ofurace
Methoxyfenozide	Omethoate
Metobromuron	Oxadixyl
Metolachlor	Oxyfluorfen
Metolcarb	Paclobutrazol
Metoxuron	Parathion ethyl
Metrafenone	Parathion methyl
Metsulfuron-methyl	Pebulate
Mevinphos	Penconazole
Mexacarbate	Pendimethalin
Monocrotophos	Pentachloroaniline
Monolinuron	Pentachloroanisole
Monuron	Pentachlorobenzene
Myclobutanil	Pentachlorophenol
Napropamide	Permethrin
Nitenpyram	Perthan
Norflurazon	Phenothrin
Omethoate	Phenthoate
Oxadiazon	Phosfolan
Oxadixyl	Phosmet
Oxamyl	Phosphamidon I
Oxydemeton-methyl	Phosphamidon II
Paclobutrazol	Piperonyl butoxide
Paraoxon	Pirimicarb
Paraoxon-methyl	Pirimiphos-ethyl
Penconazole	Pirimiphos-methyl
Pencycuron	Procymidone
Pendimethalin	Profenofos
Penthiopyrad	Prometryn



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**Appendix 2 (cont'd)****AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Permethrin	Propachlor
Pethoxamid	Propargite
Phenmedipham	Propazine
Phenthoate	Propetamphos
Phorate-sulfone	Propham
Phorate-sulfoxide	Propiconazole
Phosalone	Propyzamide
Phosfolan	Prothiofos
Phosmet	Pyrazophos
Phosphamidon	Pyrimethanil
Phoxim	Quintozene
Picolinafen	Resmethrin
Picoxystrobin	Silafluofen
Pinoxaden	Simazine
Piperonyl-butoxide	Sulfotep
Pirimicarb	Sulprofos
Pirimiphos-ethyl	Tebuconazole
Pirimiphos-methyl	Tecnazene
Prochloraz	Tefluthrin, cis-
Procymidone	Terbacil
Profenofos	Terbufos
Promecarb	Terbumeton
Prometon	Terbutylazine
Prometryne	Terbutryne
Propamocarb	Tetrachlorvinphos
Propanil	Tetradifon
Propaquizafop	Tetramethrin
Propargite	Tetrasul
Propazine	Thiabendazole
Propham	Tolclofos-methyl
Propiconazole	Transfluthrin
Propoxur	Triadimefon
Propyzamide	Triadimenol
Proquinazid	Tri-allate
Prosulfocarb	Triazamate
Prothioconazole-desthio	Trichloronate
Pyracarbolid	Trietazine



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**Appendix 2 (cont'd)**

**AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

<b>LC-MS/MS</b>	<b>GC-MS/MS</b>
Pyraclostrobin	Trifloxystrobin
Pyraflufen-ethyl	Trifluralin
Pyridaben	Zoxamide
Pyrifenox	
Pyrimethanil	
Pyriproxyfen	
Quassin	
Quinoxifen	
Quizalofop-ethyl	
Rimsulfuron	
Rotenone	
Silthiofam	
Spinetoram-major	
Spinetoram-minor	
Spinosyn-A	
Spinosyn-D	
Spirodiclofen	
Spirotetramat	
Spiroxamine	
Tebuconazole	
Tebufenozide	
Tebufenpyrad	
Tebupirimfos	
Tebuthiuron	
Temephos	
Terbufos-sulfone	
Terbufos-sulfoxide	
Terbutylazine	
Terbutryn	
Tetraconazole	
Tetramethrin	
Thiabendazole	
Thiacloprid	
Thiamethoxam	
Thidiazuron	
Thifensulfuron-methyl	
Thiobencarb	



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**Appendix 2 (cont'd)**

**AM/R/1003 QuEChERS extraction with LC-MS/MS or GC-MS/MS Detection:**

**LC-MS/MS**

Thiodicarb

Tralkoxydim

Triadimefon

Triadimenol

Triazophos

Trichlorfon

Tricyclazole

Tridemorph

Trietazine

Trifloxystrobin

Triflumizole

Triflusulfuron-methyl

Trimethacarb

Uniconazole-P

Vamidothion

XMC

Zoxamide

END