


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>1282</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>ALS Laboratories (UK) Limited</h3> <p>Issue No: 140 Issue date: 11 January 2021</p>	
	<p>Sands Mill Huddersfield Road Mirfield West Yorkshire WF14 9DQ</p>	<p>Contact: Services and Technical Queries Tel: +44 (0)1354 697028 E-Mail: customerservices.uk@alsglobal.com Website: www.als-testing.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

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



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Location details	Activity	Location code
Address 10 Sandown Centre White Horse Business Park Trowbridge BA14 0XD Local contact Peter Woolley Tel: +44(0)1225 769050 Fax: +44(0)1225 769080 Email: peter.woolley@alsglobal.com Website: www.als-testing.co.uk	Microbiological (Food and water)	G
Address Yeomanry Road Battlefield Enterprise Park Shrewsbury Shropshire SY1 3EH Local contact: Adele Field Tel: +44 (0)1743 463322 Fax: +44 (0)1743 463323 Email: adele.field@alsglobal.com	Microbiological (Food and Water) Physical (Food)	S
Address 7 & 8 Aspen Court Bessemer Way Templeborough Rotherham S60 1FB Local contact: Ailsa Mould Tel: +44 (0)1709 369699 Fax: +44 (0)1709 369639 Email: ailsa.mould@alsglobal.com	Microbiological (Food) Physical (Food) Sample Receipt (Food and Water)	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)	<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	AM/R/263 by ELISA using Bio-Check kit	A
(Food products and ALS-supplied environmental swab rinse liquid)	Quantitative determination of β -lactoglobulin	AM/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	AM/R/254 by ELISA using AgraQuant kit	A
(Excluding samples containing more than 20% Chicken)	Quantitative determination of Egg white protein (ovomucoid)	AM/R/255 by ELISA using Bio-Check kit	A
	Quantitative determination of Soya (soya trypsin inhibitor)	AM/R/256 by ELISA using Bio-Check kit	A
(Food products, processed and unprocessed, and environmental swabs)	Quantitative determination of Peanut	AM/R/257 by ELISA using Bio-Check kit	A
	Quantitative determination of Mustard	AM/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	AM/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
Microwave method excludes food and feed samples containing less than 20% moisture, more than 25% sugar, and herbs, spices and samples containing alcohol	Moisture content	1) AM/C/1017 by microwave drying	A
		2) AM/C/801 based on Feeding Stuff Regulations 2000	A
	Ochratoxin A	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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<p>FOOD AND FOOD PRODUCTS (restricted matrices specified as appropriate)</p> <p>(Fruits, vegetables, fungi and cereals)</p> <p>(Fruits, vegetables and cereals)</p> <p>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</p>	<u>Chemistry Tests</u> (cont'd)	Documented In-House Methods	
	Pesticide Residues:		
	Dithiocarbamates (as CS ₂)	AM/R/240 using GCMS	A
	Chlormequat and Mepiquat	AM/R/231 using LC-MS	A
	Inorganic Bromide	AM/R/222 using GC-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	AM/R/1003 QuEChERS extraction with LC-MS/MS and GC-MS/MS Detection	A
<p>DAIRY PRODUCTS (as specified)</p> <p>Butter & Cheese</p> <p>Milk, Cream and Cheese</p> <p>Milk, Butter, Cream and Condensed Milk</p>	See Appendix 2 at end of this schedule for the list of pesticides covered		
	Sudan red, Para Red and Butter Yellow Dyes	AM/R/244 using LC-MS/MS	A
	<u>Chemical/Physical Tests</u>		
	Chloride	AM/C/603 using Potentiometric titration based upon JAOAC 1974	A
	Fat content	ESGM C011 based on Gerber method BS 696:Parts 1 and 2:1989 (withdrawn)	A
	Fat content	ESGM C018 by Rose Gottlieb	A



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DAIRY PRODUCTS (as specified)	<u>Chemical/Physical Tests</u>	Documented In-House Methods	
Cheese	Moisture content	1) AM/C/1017 by microwave drying	A
Butter, Cheese and Concentrate Milk samples		2) AM/C/801 based on Feeding Stuff Regulations 2000	A
Milk and Cream	Phosphatase	ESGMC008 by Fluorophos (excluding testing for reactivation and microbial phosphatase)	A
ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, DRINKS, PHARMACEUTICAL PRODUCTS, e.g. CAPSULES, PASTILLES AND TABLETS, MEDICATIONS (restricted matrices specified as appropriate)	<u>Chemistry Test</u>		
	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
	Vitamin C (Ascorbic acid)	AM/V/710 using HPLC	A
	Vitamin B ₁ (Thiamine) Vitamin B ₂ (Riboflavin)	AM/V/703 using HPLC	A
(Excluding Silage)	Beta Carotene	AM/V/906 using HPLC	A
(Excluding pharmaceutical products)	Vitamin B ₃ complex (Nicotinic acid and Nicotinamide)	AM/V/751 using HPLC	A
(Excluding pharmaceutical products or drinks)	Vitamin B ₆ (Pyridoxine)	AM/V/752 using HPLC	A
(Excluding vegetable products)	Vitamin B complex (Free Folic Acid)	AM/V/1006 by immunoaffinity assay with HPLC detection	A
(Excluding pharmaceutical products or drinks)	Vitamin B ₆ (Pyridoxine)	AM/V/752 using HPLC	A
	Vitamin D ₂ & D ₃ (Cholecalciferol & Ergocalciferol)	AM/V/723 using HPLC	A
(Premixes, Supplements, Tablets and Pastilles)	Vitamin D ₂ & D ₃ (Cholecalciferol & Ergocalciferol)	AM/ V/707 using HPLC	A



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ANIMAL FEEDINGSTUFFS, FOOD AND FOOD PRODUCTS, INCLUDING PREMIXES, SUPPLEMENTS, RAW MATERIALS AND TABLETS	<u>Chemistry Test</u> (cont'd) Vitamin E (Alpha tocopherol acetate)	Documented In-House Methods AM/V/715 using HPLC	A
MEATS, COOKED AND RAW	<u>Molecular Testing</u> Detection of mitochondrial DNA from the following species: Chicken Cow Horse Pig Sheep Turkey	Documented In-House Methods 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
FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified) (Raw and cooked meats, dairy products, vegetables, environmental swabs)	<u>Microbiology 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>Enumeration:</u> <i>Bacillus cereus</i> , presumptive	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, G, S, R A, B, C, G, S, R



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FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd) (Raw and cooked poultry at Location F, raw poultry only at Location A, and food, food products, including raw and cooked poultry, environmental swabs at Location S)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods	
	<u>Enumeration:</u> (cont'd)		
	<i>Campylobacter</i> spp (thermotolerant)	ESGMM325 based on BE EN ISO 10272-2:2017 confirmed by biochemical tests and latex agglutination or identification to genus level by MALDI-TOF (SM 101/102) for Locations R & S only	A, S, R
	<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 only	A, B, C, 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, G, S, R
	Coliforms and <i>Escherichia coli</i>	KM28 Client specified method using chromogenic agar	B
(Animal By-Product materials)	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 S, R
	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 2) Method ESGMM303 based on BS ISO 21528-2:2017 with confirmation by biochemical tests at Locations B, S only	A, G A, B, C, G, 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)	Documented In-House Methods	
(environmental swabs at locations A, S & R only)	Sulphite reducing Clostridia	ESGMM331 based on BS ISO 15213:2003, genus level confirmation by obligate anaerobic growth and Gram stain	S
(excluding environmental swabs)	Total Aerobic Colony Count: 3 days, 30°C	ESGMM300 based on BS EN ISO 4833-1:2013	A, B, C, G, S, R
	Total Aerobic Colony Count: 2 days, 30°C	ESGMM300 using PCA pour plate technique	A, B, C, G, S, R
	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, 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, 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
	Yeasts and Moulds:	1) ESGMM308 based on BS ISO 21527-1:2008	A, B, G, S, R
(environmental swabs at locations S & R only)		2) ESGMM315 using DG18 agar (for products of water activity ≤ 0.95) based on BS ISO 21527-2:2008	B, C, S, R
(excluding environmental swabs)		3) ESGMM309 client specified pour or spread plate method using OGYE incubated at 25°C for 5 days	B, C, S



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<p>FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd)</p> <p>(excluding environmental swabs)</p> <p>(including environmental swabs)</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p><u>Detection:</u></p> <p><i>Campylobacter</i> spp, confirmed</p>	<p>Documented In-House Methods</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 Locations R & S only</p> <p>3) ESGMM527 based on BS EN ISO 10272-1:2017 confirmed by biochemical tests and latex agglutination</p>	<p>A,</p> <p>S, R</p>
	<p>Enterobacteriaceae, presumptive</p> <p><i>Escherichia coli</i> O157</p>	<p>ESGMM563 based on BS EN ISO 21528-1:2004</p> <p>1) AMM382 modified in-house method using one selective media at 41.5°C for 18 hours</p> <p>2) AMM382 based on BS EN ISO 16654-1:2001+A1:2017</p>	<p>A, R</p> <p>B</p> <p>A</p>
	<p><i>Escherichia coli</i> (β-glucuronidase positive)</p>	<p>1) ESGMM561 customer specified method based on ISO 16649-3:2015</p> <p>2) AMM446 customer specified method using MacConkey broth enrichment and recovery on TBX agar</p>	<p>A, B, G</p> <p>A</p>
<p>Finished products and raw material including flavourings, oats, wheat, chocolate dried fruits and nuts</p>			
<p>GOS Syrup, Peanut Butter, Infant formula and sponge swabs</p>	<p><i>Cronobacter sakazakii</i> (presumptive)</p>	<p>PHARM-M011 based on BS EN ISO 22964:2017</p>	<p>E</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>Listeria monocytogenes</i> and other named <i>Listeria</i> species	Documented In-House Methods 1) ESGMM522 based on BS EN ISO 11290-1:2017 2) KM61 using BioMerieux VIDAS LIS, and confirmation with ESGMM531 3) ESGMM523 using Solus ELISA kit method and DYNEX equipment	A, C, G, S, R B A, B, C, G, S, R
Environmental swabs only	 <i>Listeria</i> species confirmation and identification	4) ESGMM526 using Solus <i>Listeria</i> One ELISA kit method and DYNEX equipment 1) ESGMM531 using oxidase, catalase, Gram stain and biochemical tests 2) SM 101/102 species identification by MALDI-TOF	A A, B, C, G, S, R G, R, S
(swabs at location B only)	Coagulase Positive Staphylococci	ESGMM562 based on BS EN ISO 6888-3 2003	A, B
(Animal By-Product materials)	<i>Salmonella</i> spp	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	A, G



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FOOD and FOOD PRODUCTS, ENVIRONMENTAL SWABS (unless specified), (cont'd) (including feeds and carcass swabs at Location S) DRIED PRODUCTS, cereals, cereal bars, biscuits, confectionary products	<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 2) ESGMM515 using Solus ELISA Kit method and DYNEX equipment 3) KM60 using BioMerieux VIDAS SLM, dual selective enrichment, confirmation by BioMerieux API 20E 4) MP 20 customer-specified method based on Nordic Committee on Food Analysis, Method No 71, 5 th Ed 1999 enrichment in RVS broth and selective plating using XLD and chromogenic agar 5) ESGMM525 using Solus Salmonella One ELISA Kit method and DYNEX equipment	A, B, C, G, S, R A, B, C, G, S, R B S B
	<i>Salmonella</i> confirmation <i>Vibrio parahaemolyticus</i>	1) ESGMM517 by oxidase, poly O and poly H antisera and biochemical tests (API 20E) 2) Identification by MALDI-TOF (SM 101/102) ESGMM551 based on BS EN ISO 21872-1:2017	A, B, C, G, S, R R, S A



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ENVIRONMENTAL SAMPLES Exposed contact plates, settle plates, or plates from air samplers (incubated and enumerated as received)	<u>Enumeration:</u>	ESGMM322 with medium and incubation as specified for the target organisms:	
	Aerobic Colony Count	PCA, 30°C for 48 hours	A, 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, G, S, R	
MICROBIOLOGICAL CULTURES (presumptive bacterial isolates from respective food and environmental detection and/or enumeration ESGMM tests)	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 relevant locations (operating accredited tests for the detection and/or enumeration of the named genera) preparing isolate slides for submission to location A followed by local reporting	A
	Confirmation of <i>Salmonella</i> genus		
	Identification of <i>Campylobacter</i> species	ESGMM532 using the VITEK (V2) MS MALDI TOF instrument	A
Molecular serotyping of <i>Salmonella</i>	ESGMM519 using Check-Points B.V. Check & Trace Microarray in conjunction with Bioer Life ECO PCR Thermal Cycler	R	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PHARMACEUTICAL PRODUCTS - FINISHED AND RAW MATERIALS	<u>Detection:</u> Clostridia spp <i>Pseudomonas</i> spp <i>Salmonella</i> spp <i>Staphylococcus aureus</i> Enterobacteriaceae <i>Escherichia coli</i>	In house methods based on European Pharmacopoeia ESGMM700	E
PHARMACEUTICAL PRODUCTS - FINISHED AND RAW MATERIALS (cont'd)	<u>Enumeration:</u> Total viable count (including yeasts and moulds) Preservative Efficacy Test	In house methods based on European Pharmacopoeia ESGMM700 AMM380	E E
PURIFIED WATERS (including washer-disinfector 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
PHARMACEUTICAL PRODUCTS – Raw, Intermediate and Finished Products	<u>Biological Tests</u> Bacterial Endotoxin	Documented In-House Methods 1) PHARM-M008 based on the Gel Clot Assay 2) PHARM-M018 kinetic turbidimetric quantitative assay using Pyros Kinetic Flex system (Associates of Cape Cod International)	E E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PURIFIED WATERS (including washer-disinfector endoscope rinse water) and WATER FOR INJECTION	<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
	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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WATERS 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"	
	<u>Enumeration:</u> Coliforms & <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
Drinking (non regulatory), Bottled and Process Waters	<u>Enumeration:</u> Coliforms, presumptive <i>Escherichia coli</i> , presumptive	Documented in House Methods based on The Microbiology of Drinking Water Blue Books	
		ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, B, C, 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)	Documented in House Methods based on The Microbiology of Drinking Water Blue Books			
	<u>Enumeration:</u>				
	Coliforms, <i>Escherichia coli</i> , confirmed			ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, C, G, S, R
	Aerobic Colony Counts:			ESGMM100, pour plate using YEA based on MDW 2007, Part 7A	A, B, C, G, S, R
	2 days, 37°C				
	3 days, 22°C				
	1 day, 37°C				A, B, C, G, R
	Aerobic Colony Counts:			ESGMM100, pour plate using YEA based on MDW 2007, Part 7A	A, B, C, G, S, R
	2 days, 30°C				
	Enterococci presumptive			ESGMM106 by membrane filtration based on MDW 2012, Part 5A	A, C, 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, 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, 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, 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> <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	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	A, B, C, G, S A, C, G, S A, B, C, G, S A, B, C, G, S
	Enterococci, presumptive	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	A, C, G, S
	Enterococci, confirmed	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	B, C, G, S
	<i>Clostridium perfringens</i> , (presumptive)	ESGMM105 by membrane filtration based on MDW 2015, Part 6B	A, B, C, G
	<i>Clostridium perfringens</i> , confirmed	ESGMM105 by membrane filtration based on MDW 2015, Part 6B	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> Sulphite-reducing Clostridia	ESGMM104 by membrane filtration using TSC based on MDW 2015, Part 6A	A, B, C, G, S
	<i>Pseudomonas aeruginosa</i> , presumptive	ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	A, B, C, 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, G
	Coliforms, <i>Escherichia coli</i> , confirmed	ESGMM107 using MLGA Based on the MDW 2016 Part 4B	A, C, G
	Aerobic Colony Counts: 2 days, 37°C 3 days, 22°C 1 day, 37°C 2 days, 30°C	ESGMM100, pour plate using YEA based on MDW 2007, Part 7A	A, B, C, G
	Enterococci, presumptive	ESGMM106 by membrane filtration based on MDW 2012, Part 5A	A, C, 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, G
	Sulphite-reducing Clostridia	ESGMM104 by membrane filtration using TSC based on MDW 2015, Part 6A	A, B, C, 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) Recreational (man-made) and Surface Waters (cont'd)	<u>Microbiological Tests</u> (cont'd) <u>Enumeration:</u> <i>Pseudomonas aeruginosa</i> , presumptive <i>Pseudomonas aeruginosa</i> , confirmed	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 ESGMM102 by membrane filtration using CN agar based on the MDW 2015, Part 8B	A, B, C, G B, C, G
Process Waters, Recreational (both manmade and natural)	<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 (withdrawn) ISO 11731:1998 (withdrawn)	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 (withdrawn) ISO 11731:1998 (withdrawn)	C
Process Waters	<u>Detection:</u> <i>L. monocytogenes</i> and other <i>Listeria</i> spp <i>Listeria</i> species confirmation and identification <i>Salmonella</i> spp. <i>Salmonella</i> confirmation	ESGMM523 using Solus ELISA 1) ESGMM531 using oxidase, catalase, Gram stain and biochemical tests 2) SM 101/102 identification by MALDI-TOF ESGMM515 using Solus ELISA ESGMM517 by oxidase, Poly O and poly H antisera and biochemical tests (API 20E)	S, R S, R S, R S, R
END			



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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
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



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Appendix 1 (cont'd):

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

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	

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

LC-MS/MS	GC-MS/MS
Acephate	1,4-Dimethylnaphthalene
Acetamiprid	Acetochlor
Aldicarb-sulfone	Acibenzolar-S-methyl
Aldicarb-sulfoxide	Acrinathrin
Amidosulfuron	Alachlor
Aminocarb	Aldrin
Atrazine	Ametryn
Azaconazole	Anthraquinone
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



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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	GC-MS/MS
Carfentrazone-ethyl	Butralin
Chlorantraniliprole	Cadusafos
Chlorfenvinphos	Carbofuran
Chloridazon	Carbophenothion
Chlorothiophos	Chinomethionat
Chlorotoluron	Chlordane, cis-
Chloroxuron	Chlordane, trans-
Chlorpyrifos	Chlorfenson
Chlorpyrifos-methyl	Chlorfenvinphos
Chlorsulfuron	Chlormefos
Cinidon-ethyl	Chlorobenzilate
Clomazone	Chloroneb
Coumaphos	Chloropropylate
Crufomate	Chlorpropham
Cyanazine	Chlorpyrifos
Cycluron	Chlorpyrifos Methyl
Cyflufenamid	Chlorthal-dimethyl
Cymiazol HCl	Chlorthion
Cymoxanil	Chlozolate
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



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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	GC-MS/MS
Dimoxystrobin	Diazinon
Diniconazole	Dichlobenil
Dinotefuran	Dichlofenthion
Dioxacarb	Dichlorvos
Diphenamid	Diclobutrazol
Disulfoton-sulfone	Diclofop methyl
Disulfoton-sulfoxide	Dicloran
Emamectin	Dicofol
Epoxiconazole	Dicrotophos
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



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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	GC-MS/MS
Flufenacet	Flucythrinate
Flufenoxuron	Fludioxonil
Flumetsulam	Flurpirimidol
Flumorph	Flusilazole
Fluometuron	Flutolanil
Fluoxastrobin	Flutriafol
Flupyr-sulfuron-methyl	Fluvalinate-tau
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	Isoprocarb
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



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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	GC-MS/MS
Mepronil	Metazachlor
Metaflumizone	Metconazole
Metalaxyl	Methacrifos
Metamitron	Methamidophos
Metazachlor	Methidathion
Metconazole	Metribuzin
Methabenzthiazuron	Mevinphos
Methacrifos	Mirex
Methamidophos	Monocrotophos
Methidathion	Myclobutanil
Methiocarb	Napropamide
Methiocarb-sulfone	Nitrofen
Methiocarb-sulfoxide	Nitrothal-isopropyl
Methomyl	Nuarimol
Methoprotryne	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



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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	GC-MS/MS
Paraoxon-methyl	Pirimiphos-ethyl
Penconazole	Pirimiphos-methyl
Pencycuron	Procymidone
Pendimethalin	Profenofos
Penthiopyrad	Prometryn
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



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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	GC-MS/MS
Proquinazid	Tri-allate
Prosulfocarb	Triazamate
Prothioconazole-desthio	Trichloronate
Pyracarbolid	Trietazine
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	
Terbuthylazine	
Terbutryn	
Tetraconazole	
Tetramethrin	
Thiabendazole	
Thiacloprid	
Thiamethoxam	



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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

Thidiazuron

Thifensulfuron-methyl

Thiobencarb

Thiodicarb

Tralkoxydim

Triadimefon

Triadimenol

Triazophos

Trichlorfon

Tricylazole

Tridemorph

Trietazine

Trifloxystrobin

Triflumizole

Triflusulfuron-methyl

Trimethacarb

Uniconazole-P

Vamidothion

XMC

Zoxamide

END