


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 1642</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Fera Science Limited</h3> <p>Issue No: 057 Issue date: 19 December 2016</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ANIMAL FEEDS	<p><u>Chemical Tests</u></p> <p>The organisation holds a flexible scope of accreditation using this protocol.</p> <p>Please contact the organisation for details of the individual compounds that potentially can be analysed.</p> <p>Compositional analysis Mycotoxins Organic environmental contaminants Pesticide residues Veterinary residues</p>	<p>Documented In-House Methods: Methods developed and validated following the Flexible Scope generic protocol FSG 106 and related procedures using sample preparation, extraction procedures, ELISA and instrumental analysis using GC, GC-MS, LC, LC-MS LC-MS/MS, Ion-exchange chromatography (IC)IC-MS/MS</p>
ANIMAL TISSUE, FLUIDS AND PRODUCTS	<p>Organic environmental contaminants Pesticide residues Veterinary residues</p>	
FOODSTUFFS (FOOD AND BEVERAGES) FOOD SUPPLEMENTS	<p>Compositional analysis Food additives Mycotoxins Organic environmental contaminants Pesticide residues Packaging ingredients Process contaminants Veterinary residues</p>	
PLANT MATERIALS	<p>Mycotoxins Organic environmental contaminants Pesticide residues</p>	



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SAMPLES PREPARED FOR THE PURPOSES OF PROVISION OF PROFICIENCY TESTING MATERIALS	<p><u>Microbiological Tests</u></p> <p>Enumeration of food borne micro-organisms</p> <p>The organisation holds a flexible scope of accreditation using this protocol.</p>	Documented In-House Procedures PLH/478 using pour plate technique and PLH/479 using spread plate technique
SAMPLE EXTRACTS prepared from ANIMAL FEED, ANIMAL TISSUE, FOODS of ANIMAL ORIGIN, FOODSTUFFS and ENVIRONMENTAL SAMPLES	<p><u>Chemical Tests</u></p> <p>Identification and quantitative determination of veterinary drug residues including:</p> <p>Avermectins Benzimidazoles Carazolol Ciprofloxacin Dinitrocarbanilide Enrofloxacin Flumequine Lasalocid Levamisole Malachite green Nalidixic acid Nitroimidazoles Oxolinic acid Sarafloxacin Sulphonamides Tetracyclines Tranquilisers</p>	Documented In-House Methods identified by method number
ANIMAL FEEDS	<p>Screening for Nitrofurans:</p> <p>Furaltadone Furazolidone Nitrofurantoin Nitrofurazone</p>	FSG367 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	<p>Penicillins & cephalosporins (see Table 4 for list of analytes)</p>	FSG377 using LC-MS/MS



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Screening for Aminoglycosides and spectinomycin Dihydrostreptomycin Streptomycin Spectinomycin Paromomycin Apramycin Kanamycin Gentamicin Neomycin	FSG350 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Antimicrobials screening (see Table 4 for list of analytes) Confirmation of trimethoprim	FSG385 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN HONEY	Screening for Tetracyclines including: Chlortetracycline Doxycycline Oxytetracycline Tetracycline	FSG358 using Tetrasensor
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Screening, quantification and confirmation for Avermectins: Abamectin Doramectin Emamectin Eprinomectin Ivermectin Moxidectin	FSG302 using HPLC with Fluorimetric detection and/or LC-MS/MS
FISH CRUSTACEANS	Screening, quantification and confirmation for dyes: malachite green, leucomalachite green, crystal violet and leucocrystal violet	FSG322 using LC-MS/MS
KIDNEY	Chloramphenicol (quantitative) florfenicol and thiamphenicol.	FSG347 using LC-MS/MS
FEED	Chloramphenicol & nitroimidazoles (dimetridazole, ipronidazole, metronidazole and ronidazole)	FSG 381 using LC-MS/MS



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN HONEY	Tetracyclines (see Table 4 for list of analytes)	FSG375 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN HONEY	Screening, quantification and confirmation for Sulphonamides (see Table 3 for list of analytes) Dapsone	FSG308 using LC-MS/MS
Animal muscle Feed	Screening, quantification and confirmation of: β Agonists (see Table 3 for list of analytes)	FSG348 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN Urine Wine	Chloramphenicol, thiamphenicol, florfenicol	FSG342 using Solid Phase Extraction and LC-MS/MS
EGG	Tiamulin	FSG384 using LC-MS/MS
HONEY	Macrolides and Dapsone (see Table 4 for list of analytes)	FSG354 using LC-MS/MS
HONEY	Penicillins including amoxicillin, cefazolin, penicillin G, penicillin V, ampicillin, oxacillin, cloxacillin, dicloxacillin, methicillin, ticarcillin, phenethicillin	FSG353 using LC-MS/MS
HONEY	Dihydroxy acetone (DHA) 5- (hydroxymethyl) furfural (HMF) Methylglyoxal (MGO)	FSG 783 using ultra-high performance liquid chromatography (UHPLC) and diode array detection.
HONEY	Naphthalene & 1,4-dichlorobenzene	FSG355 using GCMS



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN HONEY SHELLFISH	Nitrofurantoin metabolites as markers of nitrofurantoin antibiotic drug use 3-amino-2-oxazolidinone (AOZ) 5-methylmorpholine-3-amino-2-oxazolidinone (AMOX) l-aminohydantoin (AHD) semicarbazide (SEM)	FSG341 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Screening, confirmation and quantitation for veterinary drugs (see Table 3 for list of Coccidiostats, Nitroimidazoles, Quinolones/Fluoroquinolones, Sulphonamides, Dyes, Macrolides, Tranquillisers, Phenolic anthelmintics and Benzimidazoles)	FSG357 using extraction and clean-up procedures followed by LC/MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Screening, quantification and confirmation of florfenicol at residue levels	FSG339 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Screening, quantification and confirmation for: Non-steroidal Anti-inflammatory Drugs (NSAIDs) (see Table 3 for list of analytes)	FSG370 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Gestagens including chlormadinone acetate, medroxyprogesterone acetate, megestrol acetate, melengestrol acetate, altrnogest	FSG376 using LC-MS/MS
MILK	Non-steroidal Anti-inflammatory Drugs (NSAIDs) including (see Table 3 for list of analytes)	FSG380 using LC-MS/MS
Liver	Glucocorticoids including betamethasone, dexamethasone, prednisole	FSG371 using LC-MS/MS
Urine/ cattle serum/	Steroids (see Table 4 for list of analytes)	FSG373 using LC-MS/MS



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Poultry liver Fish	Steroids including diethylstilbestrol, hexestrol, dienestrol, 17 α -trenbolone, taleranol, zeranol, 17 α -methyltestosterone	FSG374 using LC-MS/MS
URINE	Thyrostats: Methimazole (Tapazole) Phenylthiouracil Propylthiouracil Thiouracil Methylthiouracil	FSG368 using LC-MS/MS
MUSCLE	Tiamulin	FSG386 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN	Ceftiofur	FSG378 using LC-MS/MS
FEED	Methyltestosterone	FSG379 using LC-MS/MS
ANIMAL PRODUCTS CHOCOLATE HIGH FAT AND OIL PRODUCTS FISH and FISH PRODUCTS MEAT and MEAT PRODUCTS	Pesticide residues - detection, quantification and confirmation covering Organochlorine Pesticides: (see Table 2 for the list of analytes)	FSG/158 by hexane/acetone solvent extraction with High Performance Gel Permeation Chromatography (HPGPC) clean-up and Gas Chromatography - Electron Capture Detection (GC-ECD) and Gas Chromatography - Mass Spectrometry (GC-MS) determination
ANIMAL PRODUCTS CHOCOLATE HIGH FAT AND OIL PRODUCTS FISH and FISH PRODUCTS MEAT and MEAT PRODUCTS	Pesticide residues - detection, quantification and confirmation covering Organophosphorus Pesticides (see Table 2 for the list of analytes):	FSG/159 by ethyl acetate solvent extraction with HPGPC clean-up and GC-ECD, GC-FPD and GC-MS determination
CEREAL CEREAL PRODUCTS PULSES NUTS OIL SEEDS OIL SEED PRODUCTS	Pesticide residues - detection, quantification and confirmation (see Table 1 for the list of analytes)	FSG/160 by multi-residue method using acetone/methanol solvent extraction with solvent partitioning HPGPC clean-up and, GC-FPD and GC-MS determination
CEREAL	Trinexapac-ethyl	FSG/169 by solvent extraction and LC-MS/MS determination



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	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
CEREAL POTATOES	Glyphosate	FSG/171 by solvent extraction, SPE clean-up, derivatisation and GC-MS determination
FRUITS and VEGETABLES SUGAR	Dithiocarbamate fungicide residues (as CS ₂)	FSG/153 using GC-FPD and GC-MS
FRUITS and VEGETABLES SUGAR	Pesticide residues - detection and quantification covering the following compounds: acephate dimethoate methamidophos monocrotophos omethoate	FSG/156 by GC-FPD
FRUITS and VEGETABLES	Amitraz	FSG/176 using GC-MS
FRUITS and VEGETABLES	2,4-D and Dichlorprop	FSG/177 using GC-MS
FRUITS and VEGETABLES INFANT FOOD CEREALS CEREAL PRODUCTS SEEDS	Pesticide residues - detection, quantification and confirmation (see Table 1 for the list of analytes)	FSG/154 and related standard operating procedures by multi-residue method using ethyl acetate extraction and GC-MS
DRIED FRUIT SUGAR BEVERAGES HONEY	Detection, quantification and confirmation of pesticide residues (see Table 1 for the list of analytes)	FSG/151 and related standard operating procedures by multi-residue method using acetone extraction and GC-MS
FRUITS and VEGETABLES CEREALS CEREAL PRODUCTS INFANT FOOD	Detection, quantification and confirmation of pesticide residues (see Table 1 for list of analytes)	FSG/167 and related standard operating procedures by multi-residue method using acetonitrile extraction and LC-MS/MS
FRUITS and VEGETABLES -grapes	Ethephon	FSG/182 using LC-MS/MS
SUGAR TREATED WATER BEVERAGES	Detection, quantification and confirmation of pesticide residues (see Table 2 for the list of analytes)	FSG/168 by multi-residue method using SPE clean-up and LC-MS/MS



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TREATED WATER BEVERAGES	<u>Chemical Tests</u> (cont'd) Detection, quantification and confirmation of pesticide residues (see Table 2 for the list of analytes)	Documented In-House Methods identified by method number Extraction and SPE clean-up using FSG/173 and GC-MS
LEAFY VEGETABLES	Inorganic bromide	FSG/165 GC-MS
CEREALS CEREAL PRODUCTS	ETU and iso-PTU	FSG/164 using HPLC-MS/MS
INFANT FOOD FRUITS and VEGETABLES	Chlormequat Mepiquat	FSG/152 using HPLC-MS
SPICES, SEASONINGS, FLAVOURINGS, SAUCES, PASTES, BATTERS INCLUDING DERIVATIVES and PRODUCTS	Analysis for Sudan and other illegal dyes including; Sudan I, Sudan II, Sudan III, Sudan IV, Para Red, Orange II, Sudan Orange G, Sudan Red B, Sudan Red G, Sudan Red 7B, Dimethyl yellow, Sudan Black B, Rhodamine B, Toluidine Red, Fast Garnet, Bixin, Metanil yellow, Auramine and Oil Orange SS	Solvent extraction and SPE clean-up using FSG/170. Determination by HPLC-MS/MS using FSG/002
SAMPLES OF PLANT ORIGIN CEREALS MILK WATER INFANT FOOD	Detection, quantification and confirmation of pesticide residues: Chlorate Perchlorate Maleic hydrazide 3-MPPA aminopyralid amitrole chlormequat clopyralid cyromazine daminozide ethephon glufosinate glufosinate-N-acetyl glyphosate mepiquat trienaxpac ethyl	FSG/185 using HPLC-MS/MS



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ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid)	<u>Chemical Tests</u> (cont'd) See Table 5 for list of analytes: Polybrominated dibenzo- <i>p</i> -dioxins (PBDDs) (Polybrominated dibenzofurans (PBDFs) Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs) and Total TEQ Polychlorinated dibenzofurans (PCDFs):	Documented In-House Methods identified by method number FSG/407, FSG/409, FSG/412, FSG/413 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³ C - labelled internal standards
ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid)	See table 5 for list of analytes: ICES 6/Non-Dioxin Like Polychlorinated biphenyls (NDL indicators PCBs) Dioxin-Like Polychlorinated biphenyls (DL-PCBs) Additional Polychlorinated biphenyls (PCBs)	FSG/408, FSG/409, using High Resolution Gas Chromatography-High and Low Resolution Mass Spectrometry Isotope Dilution with ¹³ C - labelled internal standards
ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid)	See table 5 for list of analytes: Polybrominated biphenyls (PBBs) (Non-ortho and ortho)	FSG/412, FSG/413 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³ C - labelled internal standards
ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid) (cont'd)	Polybrominated diphenyl ethers (PBDEs) (see Table 5 for list of analytes)	FSG/412 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³ C - labelled Internal standards
FOODS	Polynuclear aromatic hydrocarbons (PAHs) (see Table 5 for list of analytes)	FSG/410 using High Resolution Gas Chromatography-Low Resolution Mass Spectrometry Isotope Dilution with ¹³ C - labelled internal standards



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BABY FOODS	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A (simultaneous determination)	FSG/261 using immuno-affinity column clean-up and HPLC with post column derivatisation
BABY FOODS	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSG/251 using immuno-affinity column clean-up and HPLC with post column derivatisation
BABY FOODS	Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC
FOODS BEVERAGES	Acesulfame-K Aspartame Saccharin	FSG/259 using HPLC
FOODS BEVERAGES	Acrylamide	FSG/262 using Gas Chromatography Mass Spectrometry (GC-MS)
FOODS BEVERAGES	Benzoic acid Sorbic acid	FSG/256 using HPLC
FOODS BEVERAGES	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSG/251 using immuno-affinity column clean-up and HPLC with post column derivatisation
FOODS BEVERAGES	Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC
FOODS BEVERAGES	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ Ochratoxin A (simultaneous determination)	FSG/261 using immuno-affinity column clean-up and HPLC with post column derivatisation
FOODS BEVERAGES (cont'd)	Nitrate Nitrite	FSG/255 using HPLC
MILK INFANT FORMULA	Aflatoxin M ₁	FSG/253 using immuno-affinity clean-up and HPLC
FOODS, CEREALS CEREAL PRODUCTS, PLANT MATERIALS and EXTRACTS	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSG/251 using immuno-affinity column clean-up and HPLC with post column derivatisation
CEREALS CEREAL PRODUCTS BABY FOOD	Deoxynivalenol	FSG/260 using immuno-affinity clean-up and HPLC



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CEREALS CEREAL PRODUCTS BABY FOOD	<u>Chemical Tests</u> (cont'd) Fumonisin B ₁ , B ₂ , B ₃	Documented In-House Methods identified by method number FSG/264 using immuno-affinity clean-up and HPLC
CEREALS CEREAL PRODUCTS BABY FOOD	Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC
CEREALS CEREAL PRODUCTS BABY FOOD	Trichothecenes	FSG/263 using solid phase clean-up and LC/MS/MS
CEREALS CEREAL PRODUCTS BABY FOOD	Zearalenone	FSG/258 using immuno-affinity column clean-up and HPLC
FRUITS FRUIT PRODUCTS	Patulin	FSG/254 using HPLC or LC/MS/MS
FOODS	3-Monochloropropane-1, 2-Diol (3-MCPD)	FSG/257 using GC-MS
SOY SAUCE and RELATED PRODUCTS	1,3 Dichloropropan-2-ol (DCP)	FSG/265 by GC-MS
ANIMAL FEEDS FOODS	Arsenic (Inorganic)	Schedule BITES - 1 using supporting solvent extraction followed by high resolution mass spectrometry



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<p>MATRICES/ELEMENTS THAT ARE ACID DIGESTABLE/ SOLUBLE INCLUDING: ANIMAL FEEDS BEVERAGES FOODS CROPS SOILS SAMPLES OF CLINICAL ORIGIN (covering blood, serum and organs of animal/human origin)</p> <p>FRUITS BEVERAGES</p> <p>CONFECTIONERY PRODUCTS</p> <p>- Chocolates</p> <p>FOOD CONTACT MATERIALS AND ARTICLES</p> <p>TISSUE AND CLINICAL MATERIAL FROM BADGERS (covering urine, faeces, tracheal aspirates, oesophageal aspirates and swabs)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Single and multi-elemental analysis</p> <p>Bromine Chlorine Iodine</p> <p>D/H_I and D/H_{II} ratio determination for ethanol</p> <p>¹³C/¹²C ratio determination for ethanol</p> <p>Melamine</p> <p>Overall migration from packaging materials into aqueous food simulants by total immersion</p> <p>Primary Aromatic Amines in 3% aqueous acetic acid food simulant</p> <p>Total Primary Aromatic Amines in 3% aqueous acetic acid food simulant</p> <p><u>Microbiological Tests</u></p> <p>Formaldehyde and hexamethylenetetramine in 3% acetic acid food simulant</p> <p>Detection of:</p> <p><i>Mycobacterium bovis</i></p>	<p>Documented In-House Methods identified by method number</p> <p>Schedule BITES-1 and supporting extraction procedures using inductively coupled plasma - quadruple mass spectrometry and high resolution mass spectrometry (ICP-MS)</p> <p>Schedule BITES-1 and supporting alkaline extraction (TMAH) using ICP-MS</p> <p>FSG/751 and FSG/752 using SNIF-NMR</p> <p>FSG/751 and FSG/753 using EA-C-IRMS</p> <p>FSG/774 using LC-MS/MS</p> <p>FSG/652 using Gravimetric technique</p> <p>FSG 679 using LC-MS/MS</p> <p>FSG 685 using spectrophotometry</p> <p>Documented In-House Procedures</p> <p>FSG 684 using spectrophotometry</p> <p>PLH/407 for TISSUE samples and PLH/404 for clinical samples</p>



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<p>FOODSTUFFS</p> <p>SAMPLES PREPARED FOR THE PURPOSES OF PROVISION OF PROFICIENCY TESTING MATERIALS</p>	<p><u>Microbiological Tests (cont'd)</u></p> <p>Detection of: <i>Clostridium botulinum</i> and <i>Clostridium botulinum</i> toxins</p> <p>Enumeration of: Total viable colony count at 30°C</p> <p>Detection of: <i>Campylobacter</i> spp</p> <p><i>E. coli</i> 0157</p> <p><i>Listeria monocytogenes</i> and other <i>Listeria</i> species</p> <p><i>Salmonella</i> spp</p>	<p>Documented In-House Procedures</p> <p>PLH/401 based on Bacteriological Analytical Manual (BAM) 2001</p> <p>PLH/416 based on BS EN ISO 4833:2003</p> <p>PLH/410 based on BS EN ISO 10272-1:2006 using Bolton Broth and modified CCDA</p> <p>PLH/446 based on BS EN ISO 16654:2001 using automated immunomagnetic separation</p> <p>PLH/409 based on BS EN ISO 11290-1:1996 + A1:2004 using ALOA</p> <p>PLH/408 based on BS EN ISO 6579:2002 using RVS for enrichment and XLD for isolation</p>
<p>PLANTS and PLANT MATERIALS</p> <p>POTATO HEEL ENDS</p>	<p><u>Plant Health Diagnostic Tests</u></p> <p>Qualitative analysis for the diagnosis of plant pathogens and pests</p> <p>Diagnosis of plant pathogenic bacteria</p> <p>Brown rot (<i>Ralstonia solanacearum</i>) and Ring rot (<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>) with associated confirmatory testing</p>	<p>Documented In-House Procedures</p> <p>PLH/135 using real-time PCR</p> <p>PLH/019 by fatty acid profiling using GC</p> <p>PLH/165 & PLH/166 processing and primary screening of potato vascular cores for detection of Brown rot and Ring rot using indirect immunofluorescence (IF) assay for ring rot</p>



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PLANTS and PLANT MATERIALS (cont'd)	<u>Plant Health Diagnostic Tests</u> (cont'd)	Documented In-House Procedures
PLANTS and PLANT MATERIALS	Identification of: <i>Bemisia tabaci</i> puparia	PLH/102 by microscopy
	Detection and identification of: <i>Ditylenchus</i> to genus and <i>D. dipsaci</i> to species	PLH/104 by microscopy
PLANTS, SOILS AND WATER	Morphological identification of Thrips palmi adults	PLH/155 by microscopy
SOILS	Potato cyst nematodes (<i>Globodera pallida</i> and <i>Globodera rostochiensis</i>)	PLH/113 by Real time PCR PLH/015 by microscopy
	<i>Heterodera</i> to genus	PLH/015 by microscopy
POTATO ROOTS	Detection and Identification of: Potato cyst nematodes (<i>Globodera pallida</i> and <i>Globodera rostochiensis</i>)	PLH/113 by PCR PLH/015 by microscopy
PLANTS, PLANT MATERIALS AND SOILS	Nematode species	PLH/049 by image analysis for digital capture and measurement
STRAWBERRY PLANTS	<i>Colletotrichum acutatum</i>	PLH/035 by ELISA
PLANTS, SOILS AND WATER	Detection and Identification of: <i>Phytophthora ramorum</i> (sudden oak death) and <i>Phytophthora kernoviae</i>	PLH/067 PLH/056 for morphological identification PLH/055 using real-time PCR
	Detection of Columnea latent viroid	PLH/199 using real-time TaqMan RT-PCR
	Detection, Identification and Diagnosis of Chrysanthemum stunt viroid	PLH/809 using real-time TaqMan RT-PCR
LEAF MATERIAL FROM SUSCEPTIBLE SOLANACEOUS HOSTS	Detection of: Potato spindle tuber viroid (PSTVd)	PLH/077 using real-time PCR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PLANTS and PLANT MATERIALS (cont'd)	<u>Plant Health Diagnostic Tests</u> (cont'd)	Documented In-House Procedures
TOMATO PLANT LEAVES	Detection of Pepino mosaic Virus (PepMV)	PLH/901 by ELISA
PLANT MATERIALS	<u>Molecular Tests</u>	Documented In-House Methods identified by method number
	Screening for EU authorised GMO's (Genetically modified organisms) authorised on or before 05 July 2016	PLH/899 Screening for authorised GMOs using Real-time PCR
	Quantification of EU authorised GMOs: -Roundup Ready™ (GT40-3-2) soya - MON810 maize - MON88302 oilseed rape	PLH/900 using Real-time PCR
END		

TABLE 1:

PESTICIDES

FSG 151 Acetone extraction	FSG 154 Ethyl acetate extraction	FSG 160 Acetone/methanol extraction	FSG 167 Acetonitrile extraction
acetochlor	aclonifen	amitraz	2,4-D
aldrin	acrinathrin	atrazine	abamectin
amitraz	aldrin	azinphos-methyl	acephate
atrazine	allethrin	azoxystrobin	acetamiprid
azinphos-methyl	amitraz	benalaxyl	acetochlor
azoxystrobin	atrazine	bendiocarb	acibenzolar-S-methyl
benalaxyl	azinphos-ethyl	bifenthrin	aclonifen
bendiocarb	azinphos-methyl	biphenyl	acrinathrin
bifenox	azoxystrobin	bitertanol	alachlor
bifenthrin	benalaxyl	boscalid	aldicarb



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bioresmethrin	bendiocarb	bromophos	aldicarb sulfone
biphenyl	bifenox	bromopropylate	aldicarb sulfoxide
bitertanol	bifenthrin	bupirimate	aldrin
boscalid	biphenyl	buprofezin	allethrin
bromophos	bitertanol	cadusafos	amidosulfuron
bupirimate	boscalid	captan	amitraz
buprofezin	bromophos	carbaryl	asulam
cadusafos	bromophos-methyl	carbofuran	atrazine
captan	bromopropylate	chlorfenviphos	azinphos-ethyl
carbaryl	bupirimate	chlorobenzilate	azinphos-methyl
carbetamide	buprofezin	chlorothalonil	azoxystrobin
carbofuran	cadusafos	chlorpropham	BAC 10
carfentrazone-ethyl	captafol	chlorpyrifos	BAC 12
chlordane (cis)	captan	chlorpyrifos-methyl	BAC 14
chlordane (trans)	carbaryl	chlorthal-dimethyl	BAC 16
chlordimeform	carbetamide	chlozolinate	benalaxyl
chlorfenvinphos	carbofuran	clomazone	bendiocarb
chloridazon	chlorbufam	coumaphos	bentazone
chlorobenzilate	chlordane (cis)	cyfluthrin	benthiavalicarb
chlorothalonil	chlordane (trans)	cyhalothrin-lambda	bifenazate
chlorpropham	chlorfenvinphos	cypermethrin	bifenox
chlorpyrifos	chloridazon	cyproconazole	bifenthrin
chlorpyrifos-methyl	chlorobenzilate	cyprodinil	bioresmethrin
chlorthal-dimethyl	chlorothalonil	DDD-op	biphenyl
chlozolinate	chlorpropham	DDD-pp	bispyribac-sodium
cinidon-ethyl	chlorpyrifos	DDE-op	bitertanol
clomazone	chlorpyrifos-methyl	DDE-pp	boscalid
coumaphos	chlorthal-dimethyl	DDT-op	bromophos-ethyl
cyanazine	chlozolinate	DDT-pp	bromopropylate
cycloatediflufenican	cinidon-ethyl	deltamethrin	bromoxynil
cyfluthrin	clomazone	diazinon	bromuconazole
cyhalothrin-lambda	coumaphos	dichlofluanid	bupirimate
cypermethrin	cyanazine	dichlorvos	buprofezin
cyproconazole	cycloate	dicloran	butachlor
cyprodinil	cyfluthrin	dicofol	butocarboxim
DDD-op	cyhalothrin-lambda	difenoconazole	butocarboxim sulfone
DDD-pp	cypermethrin	diflufenican	butocarboxim sulfoxide
DDE-op	cyproconazole	dimethoate	butoxycarboxim
DDE-pp	cyprodinil	dimethomorph	cadusafos
DDT-op	DDD-op	diphenylamine	captan
DDT-pp	DDD-pp	endosulfan (I)	carbaryl
deltamethrin	DDE pp	endosulfan (II)	carbendazim
diazinon	DDE-op	endosulfan sulfate	carbofuran
dichlobenil	DDT-op	EPN	carbofuran (3-hydroxy)
dichlofluanid	DDT-pp	epoxiconazol	carboxin
dichlorvos	deltamethrin	ethion	carfentrazone-ethyl
dicloran	diazinon	ethofumesate	chlorantraniliprole
dicofol	dichlobenil	ethoprophos	chlorbufam
dieldrin	dichlofluanid	etridiazole	chlordane (cis)
difenoconazole	dichlorvos	etrimfos	chlordane (trans)



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dimethenamid	dicloran	famoxadone	chlorfenapyr
dimethoate	dicofol	fenarimol	chlorfenvinphos
dimethomorph	dicrotophos	fenazaquin	chloridazon
diniconazole	dieldrin	fenbuconazole	chlorobenzilate
diphenylamine	difenoconazole	fenitrothion	chlorothalonil
endosulfan (I)	diflufenican	fenoxycarb	chlorpropham
endosulfan (II)	dimethenamid	fenpropathrin	chlorpyrifos
endosulfan sulfate	dimethoate	fenpropidin	chlorpyrifos-methyl
endrin	dimethomorph	fenpropimorph	chlorthal-dimethyl
EPN	diniconazole	fenvalerate	chlortoluron
epoxiconazole	diphenylamine	flucythrinate	chlozolate
EPTC	DMST	fludioxonil	chromafenozide
esfenvalerate	edifenphos	flufenacet	clethodim
ethion	endosulfan (I)	fluquinconazole	clofentezine
ethofumesate	endosulfan (II)	flusilazole	clomazone
ethoprophos	endosulfan sulfate	fluvalinate	clothianidin
etofenprox	endrin	folpet	coumaphos
etridiazole	EPN	fonofos	cyazofamid
etrimfos	epoxiconazole	furalaxyl	cycloate
famoxadone	EPTC	HCH-gamma	cycloxydim
fenarimol	ethion	heptenophos	cyflufenamid
fenazaquin	ethofumesate	hexachlorobenzene	cyfluthrin
fenbuconazole	ethoprophos	hexaconazole	cyhalothrin-lambda
fenitrothion	ethoxyquin	imazalil	cymoxanil
fenoxycarb	etoxazole	iprodione	cypermethrin
fenpropathrin	etridiazole	isazofos	cyproconazole
fenpropidin	etrimfos	isofenphos	cyprodinil
fenpropimorph	famoxadone	isofenphos-methyl	cyromazine
fenvalerate	fenarimol	isoproturon	DDAC
fluazifop-butyl	fenazaquin	kresoxim-methyl	DDD-pp
flucythrinate	fenbuconazole	malathion	DDE-pp
fludioxonil	fenitrothion	mecarbam	DDT-op
fluquinconazole	fenoxycarb	mepanipyrim	DDT-pp
flurochloridone	fenpropathrin	mephosfolan	deltamethrin
flusilazole	fenpropidin	metalaxyl	demeton-S-methyl
flutolanil	fenpropimorph	metconazole	demeton-S-methyl sulfone
folpet	fensulfothion	methacrifos	desmedipham
fonofos	fenvalerate	methidathion	diafenthiuron
furalaxyl	fluazifop-butyl	methiocarb	diazinon
haloxyfop-methyl	flucythrinate	methoxychlor	dicamba
HCH-alpha	fludioxonil	metoxuron	dichlobenil
HCH-beta	flufenacet	metribuzin	dichlofluanid
HCH-delta	fluquinconazole	meviphos	dichlorprop
HCH-gamma	flurochloridone	myclobutanil	dichlorvos
heptachlor	flusilazole	napropamide	diclobutrazol
heptachlor epoxide (cis)	flutolanil	nitrofen	dicloran
heptachlor epoxide (trans)	fluvalinate	nitrothal-isopropyl	dicofol
heptenophos	folpet	ofurace	dicrotophos
hexachlorobenzene	fonofos	oxadixyl	dieldrin
hexaconazole	formothion	paclobutrazol	diethofencarb



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hexazinone	furalaxyl	parathion	difenoconazole
imazalil	HCH-alpha	parathion-methyl	diflubenzuron
ioxynil	HCH-beta	penconazole	diflufenican
iprodione	HCH-delta	pendimethalin	dimethenamid
isazofos	HCH-gamma	pentanochlor	dimethoate
isofenphos	heptachlor	permethrin	dimethomorph
isofenphos-methyl	heptachlor epoxide (<i>cis</i>)	2-phenylphenol	dimoxystrobin
kresoxim-methyl	heptachlor epoxide (<i>trans</i>)	phenthoate	diniconazole
lenacil	heptenophos	phosalone	dinotefuran
malaaxon	hexachlorobenzene	phosmet	diphenylamine
malathion	hexaconazole	phosphamidon	disulfoton
mecarbam	hexazinone	pirimicarb	disulfoton sulfone
mepanipyrim	imazalil	pirimiphos-ethyl	disulfoton sulfoxide
mephosfolan	iprodione	pirimiphos-methyl	dithianon
mepronil	isazofos	prochloraz	diuron
metalaxyl	isocarbophos	procymidone	DMPF
metamitron	isofenphos	profenofos	DMSA
metconazole	isofenphos-methyl	prometryn	dodine
methacrifos	kresoxim-methyl	propachlor	endosulfan (I)
methidathion	lenacil	propanil	endosulfan (II)
methiocarb	malaaxon	propargite	endosulfan-sulphate
methoxychlor	malathion	propetamphos	endrin
metolachlor	mecarbam	propham	EPN
metoxuron	mepanipyrim	propiconazole	epoxiconazole
metribuzin	mephosfolan	propoxur	EPTC
mevinphos	metalaxyl	propyzamide	ethiofencarb
myclobutanil	metazachlor	prothioconazole	ethiofencarb sulfone
napropamide	metconazole	prothiofos	ethiofencarb sulphoxide
nitrothal-isopropyl	methacrifos	pyrazophos	ethion
ofurace	methidathion	pyridaphenthion	ethofumesate
oxadiazon	methiocarb	pyrifenox	ethoprophos
oxadixyl	methoxychlor	pyrimethanil	etoxazole
oxychlorthane	metolachlor	quinalphos	etridiazole
paclobutrazol	metoxuron	quinomethionate	etrimfos
paraoxon	metribuzin	quinoxifen	famoxadone
paraoxon-methyl	mevinphos	quintozene	fenamidone
parathion	monocrotophos	simazine	fenamiphos
parathion-methyl	myclobutanil	tebuconazole	fenamiphos sulfone
penconazole	napropamide	tebufenpyrad	fenamiphos sulfoxide
pendimethalin	nitrofen	tecnazene	fenarimol
pentachloroaniline	nitrothal-isopropyl	tefluthrin	fenazaquin
Pentachlorothio-anisole	ofurace	terbutylazine	fenbuconazole
pentanochlor	omethoate	terbutryn	fenbutatin oxide
permethrin	oxadiazon	tetrachlorvinphos	fenhexamid
phenmedipham	oxadixyl	tetradifon	fenitrothion
2-phenylphenol	oxychlorthane	thiabendazole	fenoprop
phenthoate	oxyfluorfen	tolclofos-methyl	fenoxycarb
phosalone	paclobutrazol	tolyfluanid	fenpropathrin
phosmet	paraoxon-methyl	triallate	fenpropimorph



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phosphamidon	parathion	triazophos	fenpyroximate
picoxystrobin	parathion-methyl	trifloxystrobin	fensulfothion
pirimicarb	penconazole	trifluralin	fensulfothion sulfone
pirimiphos-ethyl	pendimethalin	vinclozolin	fensulfothion sulfoxide
pirimiphos-methyl	pentachloroanaline	END OF LIST	fensulfothion-oxon
prochloraz	pentanochlor		fensulfothion-oxon-sulfone
procymidone	permethrin		fenthion
profenofos	2-phenylphenol		fenthion sulfone
prometryn	phenthoate		fenthion sulfoxide
propachlor	phosalone		fentin acetate
propanil	phosmet		fenvalerate
propargite	phosphamidon		fipronil
propetamphos	piperonyl butoxide		flonicamid
propham	pirimicarb		fluazifop (free acid)
propiconazole	pirimiphos ethyl		fluazifop-p-butyl
propoxur	pirimiphos-methyl		fluazinam
propyzamide	prochloraz		flubendiamide
prothiofos	procymidone		flucythrinate
pyrazophos	profenofos		fludioxonil
pyridaphenthion	prometryn		flufenacet
pyrifenox	propachlor		flufenoxuron
pyrimethanil	propanil		fluopicolide
quinalphos	propargite		fluoxastrobin
quinomethionate	propetamphos		flurochloridone
quintozene	propham		fluroxypyr
quinalopfop ethyl	propiconazole		flusilazole
simazine	propoxur		flutolanil
tebuconazole	propyzamide		flutriafol
tebufenpyrad	prosulfocarb		fluvalinate
tebupirimfos	prothioconazole		fluxapyroxad
tecnazene	prothiofos		folpet
tefluthrin	pyrazophos		fonofos
tepraloxydim	pyridaben		formothion
terbuthylazine	pyridaphenthion		fosthiazate
terbutryn	pyrifenox		furalaxyl
tetrachlorvinphos	pyrimethanil		furathiocarb
tetraconazole	quinalphos		furmecyclox
tetradifon	quinomethionate		halofenozide
thiabendazole	quinoxifen		halosulfuron-methyl
thiamethoxam	quintozene		haloxyfop (free acid)
tolclofos-methyl	simazine		HCH-alpha
tolyfluanid	spirodiclofen		HCH-beta
triallate	tebufenpyrad		heptachlor
triazophos	tebuthiuron		heptachlor epoxide (cis)
trifloxystrobin	tecnazene		heptachlor epoxide (trans)
trifluralin	tefluthrin		heptenophos
vinclozolin	tepraloxydim		hexachlorobenzene
END OF LIST	terbuthylazine		hexaconazole
	terbutryn		hexazinone



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	tetrachlorvinphos		hexythiazox
	tetraconazole		imazalil
	tetradifon		imidacloprid
	tetramethrin		indoxacarb
	thiabendazole		ioxynil
	Tolclofos-methyl		iprodione
	tolyfluanid		iprovalicarb
	triadimefonacetochlor		isazofos
	triallate		isocarbofos
	triazophos		isofenphos
	trifloxystrobin		isofenphos-methyl
	trifluralin		isoprocarb
	vinclozolin		isoprothiolane
	END OF LIST		isoproturon
			isoxaben
			isoxaflutole
			kresoxim-methyl
			lenacil
			linuron
			lufenuron
			malaoxon
			malathion
			mandipropamid
			MCPA
			mecarbam
			mecoprop
			mepanipyrim
			mephosfolan
			mepronil
			mesosulfuron-methyl
			metaflumizone
			metalaxyl
			metamitron
			metazachlor
			metconazole
			methabenzthiazuron
			methacrifos
			methamidophos
			methidathion
			methiocarb
			methiocarb sulfoxide
			methiocarb sulphone
			methomyl
			methoxychlor
			methoxyfenozide
			metobromuron
			metolachlor
			metolcarb
			metosulam
			metoxuron



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		metrafenone
		metribuzin
		metsulfuron-methyl
		mevinphos
		molinate
		monocrotophos
		monolinuron
		monuron
		myclobutanil
		napropamide
		nitenpyram
		nitrofen
		nitrothal-isopropyl
		nuarimol
		ofurace
		omethoate
		oxadiazon
		oxadixyl
		oxamyl
		oxychlorane
		oxydemeton-methyl
		oxyfluorfen
		paclobutrazol
		paraoxon-methyl
		parathion-ethyl
		parathion-methyl
		penconazole
		pencycuron
		pendimethalin
		pentachloroaniline
		pentachlorophenol
		pentanochlor
		permethrin
		phenmedipham
		2-phenylphenol
		phenthoate
		phorate
		phorate sulfone
		phorate sulfoxide
		phosalone
		phosmet
		phosphamidon
		phoxim
		picolinafen
		picoxystrobin
		piperonyl butoxide
		pirimicarb
		pirimicarb-desmethyl
		pirimiphos-ethyl
		pirimiphos-methyl



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			prochloraz
			procymidone
			profenofos
			promecarb
			prometryn
			propachlor
			propamocarb
			propanil
			propaquizafop
			propargite
			propetamphos
			propham
			propiconazole
			propoxur
			propyzamide
			prosulfocarb
			prosulfuron
			prosulfuron
			prothioconazole-desthio
			prothiofos
			pymetrozine
			pyraclostrobin
			pyrazophos
			pyrethrins
			pyridaben
			pyridaphenthion
			pyridate
			pyrifenox
			pyrimethanil
			pyriproxyfen
			quassia
			quinalphos
			quinmerac
			quinoxifen
			quintozene
			rimsulfuron
			rotenone
			simazine
			spinosad
			spirodiclofen
			spiromesifen
			spiroxamine
			tebuconazole
			tebufenozide
			tebufenpyrad
			tebuthiuron
			tecnazene
			teflubenzuron
			tefluthrin
			tepraloxymid



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			terbufos
			terbufos sulfone
			terbufos sulfoxide
			terbuthylazine
			terbutryn
			tetrachlorvinphos
			tetraconazole
			tetradifon
			tetramethrin
			thiabendazole
			thiacloprid
			thiamethoxam
			thiodicarb
			thiophanate-methyl
			tolclofos-methyl
			tolfenpyrad
			tolyfluanid
			triadimefon
			triadimefonfluometuron
			triadimenol
			triallate
			triasulfuron
			triazamate (free acid)
			triazophos
			trichlorfon
			triclopyr
			tricyclazole
			trifloxystrobin
			triflumizole
			triflumuron
			trifluralin
			triflusulfuron-methyl
			triforine
			triticonazole
			vinclozolin
			zoxamide
			END OF LIST
END OF TABLE 1			

TABLE 2: PESTICIDES

FSG 168 Solid phase extraction	FSG 173 Solid phase extraction	FSG 158 Detection/confirmation of organochlorine compounds	FSG 159 Detection/confirmation of Organophosphorus compounds
2,3,6-TBA	2-phenylphenol	aldrin	acephate
2,4,5-T	aldrin	chlordane (cis)	aldrin
2,4-D	aldrin	chlordane (trans)	cadusafos
2,4-DB	atrazine	DDD-op	carbaryl



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2-aminoflubendazole	atrazine	DDE-op	carbofuran
5-hydroxythiabendazole	chlordane (<i>cis</i>)	DDD-pp	chlorfenvinphos
acetamiprid	chlordane (<i>cis</i>)	DDE-pp	chlorpyrifos
acetochlor	chlordane (<i>trans</i>)	DDT-op	chlorpyrifos-methyl
acibenzolar-S-methyl	chlordane (<i>trans</i>)	DDT-pp	cypermethrin
alachlor	chlorpyrifos	dieldrin	DDE-pp
albendazole	chlorpyrifos	endosulfan (I)	DDT-pp
aldicarb	cyanazine	endosulfan (II)	deltamethrin
aldicarb sulfone	cyanazine	endosulfan sulfate	diazinon
aldicarb sulfoxide	cypermethrin	endrin	dichlorvos
amidosulfuron	cypermethrin	HCH-alpha	dieldrin
azoxystrobin	DDD-op	HCH-beta	endosulfan (I)
bendiocarb	DDD-pp	HCH-delta	endosulfan (II)
bentazone	DDE-op	HCH-gamma	endosulfan-sulphate
bromoxynil	DDE-pp	heptachlor	ethoprophos
bromuconazole	DDT-op	heptachlor epoxide (<i>cis</i>)	fenvalerate
butachlor	DDT-pp	heptachlor epoxide (<i>trans</i>)	HCH-alpha
cadusafos	deltamethrin	hexachlorobenzene	HCH-beta
carbaryl	deltamethrin	oxychlordane	HCH-gamma
carbendazim	dieldrin	PCB 101	hexachlorobenzene
carbetamide	dieldrin	PCB 118	malaoxon
carbofuran	endosulfan (I)	PCB 138	malathion
carbofuran (3-hydroxy)	endosulfan (I)	PCB 153	methamidophos
carboxin	endosulfan (II)	PCB 180	omethoate
carfentrazone-ethyl	endosulfan-sulfate	PCB 28	PCB 101
chloridazon	endrin	PCB 52	PCB 118
chlortoluron	ethion	END OF LIST	PCB 138
chromafenozide	fenitrothion		PCB 153
cinidon-ethyl	HCH-alpha		PCB 180
clethodim	HCH-beta		PCB 28
clomazone	HCH-beta		PCB 52
clothianidin	HCH-delta		permethrin
cycloate	HCH-delta		pirimicarb
cycloxydim	HCH-gamma		propetamphos
demeton S-methyl	HCH-gamma		propoxur
demeton S-methyl sulfone	heptachlor		END OF LIST
desmedipham	heptachlor epoxide (<i>trans</i>)		
dicamba	hexachlorobenzene		
dichlorprop	hexachlorocyclopentadiene		
diflubenzuron	malaoxon		
diflufenican	malathion		
dimethenamid	methoxychlor		
dimethoate	oxychlordane		
dimoxystrobin	paraoxon-methyl		
diniconazole	parathion		
disulfoton	parathion-methyl		
disulfoton sulfone	pendimethalin		
disulfoton sulfoxide	permethrin		



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diuron	picloram iso-octyl ester		
EPTC	propanil		
ethiprole	simazine		
fenamiphos	terbuthylazine		
fenamiphos sulfone	trifluralin		
fenamiphos sulfoxide	END OF LIST		
fenoprop			
fenthion			
fenthion sulfone			
fenthion sulfoxide			
fentin acetate			
fipronil			
fluazifop-butyl (free acid)			
flufenacet			
fluometuron			
fluoxastrobin			
fluquinconazole			
flurochloridone			
fluroxypyr			
flutolanil			
flutriafol			
halosulfuron-methyl			
haloxyfop-(free acid)			
hexazinone			
imazalil			
imidacloprid			
indoxacarb			
iodosulfuron-methyl-sodium			
ioxynil			
isoproturon			
isoxaflutole			
kresoxim-methyl			
linuron			
MCPA			
mecoprop			
mepronil			
mesosulfuron-methyl			
metalaxyl			
metazachlor			
metconazole			
methiocarb			
methiocarb sulfone			
methiocarb sulfoxide			
methoxyfenozide			
metolachlor			
metosulam			
metrafenone			
metsulfuron-methyl			



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molinate			
naled			
oxadiazon			
oxamyl			
oxydemeton-methyl			
pencycuron			
pentachlorophenol			
phenmedipham			
phenthoate			
phorate			
phorate sulfone			
phorate sulfoxide			
picoxystrobin			
piperonyl butoxide			
pirimicarb			
propachlor			
propaquizafop			
propoxur			
prosulfuron			
pyraclostrobin			
pyriproxyfen			
quinmerac			
rotenone			
sulcotrione			
tebuconazole			
tebufenozide			
tebupirimfos			
tebuthiuron			
teflubenzuron			
terbufos			
terbufos sulfone			
terbufos sulfoxide			
terbutryn			
thiabendazole			
thiacloprid			
triadimefon			
triadimenol			
triallate			
triasulfuron			
triazamate (free acid)			
trichlorfon			
triclopyr			
triflumuron			
triflusulfuron-methyl			
triticonazole			
END OF LIST			

END OF TABLE 2



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TABLE 3: VETERINARY DRUGS

FSG 357 (multiresidue)	FSG370/ FSG380 (NSAIDs)	FSG 348 (β-agonists - multiresidue)	FSG 308 (sulphonamides)
Coccidiostats:	Diclofenac	brombuterol	sulphachlorpyridazine
Clopidol	Flunixin / hydroxyflunixin	cimaterol	sulphadiazine
decoquinatone	Ibuprofen	cimbuterol	sulphadimethoxine
diclazuril	Ketoprofen	clenbuterol	sulphadoxine
dinitrocarbanilide	Meloxicam	clenpenterol	sulphaguanidine
halofuginone	Naproxen	clenproperol	sulphamerazine
imidocarb	Niflumic acid	hydroxymethylclenbuterol	sulphamethazine
lasalocid	Phenylbutazone	isoxuprine	sulphamethizole
maduramycin	Tolfenamic acid	mabuterol	sulphamethoxazole
monensin	Vedaprofen	mapenterol	sulphamethoxypyridazine
narasin	Diclofenac	ractopamine	sulphamonomethoxine
robenidine	END OF LIST	salbutamol	sulphamoxole
salinomycin		salmeterol	sulphapyridine
semduramicin		terbutaline	sulphaquinoxaline
toltrazuril sulfone		tulobuterol	sulphathiazole
		zilpaterol	sulphisoxazole
Nitrimidazoles:		END OF LIST	END OF LIST
dimetridazole			
hydroxydimetridazole			
hydroxyipronidazole			
hydroxymetronidazole			
ipronidazole			
metronidazole			
ronidazole			
Quinolones/Fluoroquinolones			
ciprofloxacin			
danofloxacin			
difloxacin			
enrofloxacin			
flumequine			
marbofloxacin			
nalidixic acid			
norfloxacin			
oxolinic acid			
sarafloxacin			
FSG 357 (multiresidue) (cont'd)			
Sulphonamides			
sulphaguanidine			
sulphachlorpyridazine			
sulphadiazine			
sulphadimethoxine			
sulphadoxine			



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sulphamerazine			
sulphamethazine			
sulphamethizole			
sulphamethoxazole			
sulphamethoxypyridazine			
sulphamonomethoxine			
sulphamoxole			
sulphapyridine			
sulphaquinoxaline			
sulphathiazole			
sulphisoxazole			
Dyes			
crystal violet			
azure B			
brilliant green			
ethyl violet			
leucocrystal violet			
leucomalachite green			
malachite green			
methylene blue			
new methylene blue			
nile blue A			
pararosaniline base			
rhodamine 6G			
victoria blue B			
victoria blue R			
victoria pure blue BO			
Macrolides			
3-O-acetyltylosin			
dapsone			
erythromycin			
gamithromycin			
josamycin			
lincomycin			
pirlimycin			
rifampicin			
spiramycin			
tildipirosin			
tilmicosin			
tulathromycin			
tylosin			
virginiamycin M1			
3-O-acetyltylosin			
Tranquillisers			
acepromazine			
azaperol			
azaperone			



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carazolol			
chlorpromazine			
haloperidol			
propionylpromazine			
xylazine			
Phenolic Anthelmintics			
closantel			
nitroxynil			
oxyclozanide			
rafoxinide			
Benzimidazoles			
albendazole			
2-aminoflubendazole			
5-hydroxythiabendazole			
albendazole sulfone			
albendazole sulfoxide			
albendazole-2-aminosulfone			
clorsulon			
cyromazine			
derquantel			
dicyclanil			
febantel			
fenbendazole			
fenbendazole sulfone			
firocoxib			
flubendazole			
hydroxymebendazole			
ketotriclabendazole			
levamisole			
mebendazole			
mebendazole amine			
monepantel sulfone			
oxfendazole			
oxibendazole			
thiabendazole			
triclabendazole			
triclabendazole sulfone			
2,4,6-triamino-pyrimidine-5-carbonitrile			
END OF LIST			

END OF TABLE 3



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TABLE 4: VETERINARY DRUGS

FSG 377 Penicillins & Cephalosporins	FSG 375 Tetracyclines	FSG 373 Steroids 1	FSG 354 Macrolides	FSG 385 Antimicrobials
cefalexin	chlortetracycline	α-boldenone	erythromycin	3-O-Acetyltylosin
cefalonium	4-epichlortetracycline	β-boldenone	lincomycin	Amoxicillin
cefapirin	combined chlortetracycline	α-trenbolone	oleandomycin	Ampicillin
desacetylcefapirin	oxytetracycline	17β- trenbolone	tylosin	Cefalexin
cefoperazone	4-epioxytetracycline	dienestrol	dapsone	Cefalonium
cefquinome	combine oxytetracycline	diethystilbestrol	josamycin	Cefapirin
cefazolin	tetracycline	hexestrol	rifamycin	Cefazolin
amoxicillin	4-epitetracycline	hydroxystanozolol	tilmicosin	Cefoperazone
ampicillin	combined tetracycline	methyltestosterone	virginiamycin	Cefquinome
benzylpenicillin	doxycycline	17α-19- nortestosterone	spiramycin	Ceftiofur
penicillin V	END OF LIST	17β-19- nortestosterone	END OF LIST	Chlortetracycline
cloxacillin		Taleranol		Ciprofloxacin
dicloxacillin		zeranol		Cloxacillin
oxacillin		zearalenone		Danofloxacin
nafcillin		oestradiol		Dapsone
END OF LIST		testosterone		Desacetyl-cepharine
		END OF LIST		Dicloxacillin
				Difloxacin
				Doxycycline
				Enrofloxacin
				4-Epichlortetracycline
				4-Epioxytetracycline
				4-Epitetracycline
				Erythromycin A
				Flumequine
				Gamithromycin
				Josamycin
				Marbofloxacin
				Nafcillin
				Nalidixic acid
				Norfloxacin
				Oxacillin
				Oxolinic acid
				Oxytetracycline
				Penicillin G
				Penicillin V
				Pirlimycin
				Rifampicin
				Sarafloxacin
				Spiramycin
				Sulfachloropyridazine
				Sulfadiazine



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				Sulfadimethoxine
				Sulfadoxine
				Sulfaguanidine
				Sulfamerazine
				Sulfamethazine
				Sulfamethizole
				Sulfamethoxazole
				Sulfamethoxypyridazine
				Sulfamonomethoxine
				Sulfamoxole
				Sulfanilamide
				Sulfapyridine
				Sulfaquinolaxine
				Sulfathiazole
				Sulfisoxazole
				Tetracycline
				Tildipirosin
				Tilmicosin
				Trimethoprim
				Tulathromycin
				Tylosin
				Tylvasolin (Aivlosin)
				Valnemulin
				Virginiamycin M1
				END OF LIST

END OF TABLE 4

TABLE 5: DIOXINS AND PAHS

FSG 407/409/412/413 Polychlorinated dibenzo-p-dioxins (PCDDs) & Sum of WHO TEQ	FSG 408/409 ICES 6 / Non- Dioxin Like Polychlorinated biphenyls (NDL - Indicator PCBs)	FSG 410 Polynuclear aromatic hydrocarbons (PAHs)	FSG 412/413 Polybrominated biphenyls (PBBs) (Non-ortho and ortho)
2,3,7,8-TCDD	PCB-28	acenaphthene	PBB-77
1,2,3,4,6,7,8-HpCDD	PCB-52	5-methylchrysene	PBB-126
1,2,3,4,6,7,8-HpCDF	PCB-101	acenaphthylene	PBB-169
1,2,3,4,7,8- HxCDF	PCB-138	anthanthrene	PBB-15
1,2,3,4,7,8,9- HpCDF	PCB-153	anthracene	PBB-49
1,2,3,4,7,8-HxCDD	PCB-180	benz [a] anthracene (PAH 4)	PBB-52
1,2,3,6,7,8- HxCDF		benzo-[a]-pyrene (PAH 4)	PBB-80
1,2,3,6,7,8-HxCDD		benzo-[b]-fluoranthene (PAH 4)	PBB-101
2,3,4,6,7,8- HxCDF	PCB-77	benzo[ghi]fluoranthene	
2,3,4,7,8- PeCDF	PCB-81	benzo-[j]-fluoranthene	Polybrominated diphenyl ethers (PBDEs)
2,3,7,8-TCDF	PCB-126	benzo-[k]-fluoranthene	PBDE-17
OCDD	PCB-169	chrysene (PAH 4)	PBDE-28
OCDF	PCB-105	coronene	PBDE-47



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2,3,7,8-TCDD	PCB-114	cyclopenta[c,d]pyrene	PBDE-49
1,2,3,4,6,7,8-HpCDD	PCB-118	dibenz-[ah]-anthracene	PBDE-66
1,2,3,4,6,7,8-HpCDF	PCB-123	dibenzo[a,e]pyrene	PBDE-71
1,2,3,4,7,8- HxCDF	PCB-156	dibenzo[a,h]pyrene	PBDE-77
1,2,3,4,7,8,9- HpCDF	PCB-157	dibenzo[a,i]pyrene	PBDE-85
	PCB-167	dibenzo[a,l]pyrene	PBDE-99
	PCB-189	fluoranthene	PBDE-100
		fluorene	PBDE-119
Polybrominated dibenzo-p-dioxins (PBDDs)	Additional Polychlorinated biphenyls (PCBs)	indeno-[1,2,3-cd] pyrene	PBDE-126
2,3,7-T ₃ BDD	PCB-18	pyrene	PBDE-153
2,3,7,8-TBDD	PCB-31	END OF LIST	PBDE-138
1,2,3,7,8-PeBDD	PCB-33		PBDE-154
1,2,3,4,7,8-HxBDD/	PCB-37		PBDE-183
1,2,3,6,7,8-HxBDD	PCB-41		END OF LIST
1,2,3,7,8,9-HxBDD	PCB-44		
	PCB-47		
	PCB-49		
Polybrominated dibenzofurans (PBDFs)	PCB-51		
2,3,8-T ₃ BDF	PCB-56/60		
2,3,7,8-TBDF	PCB-61/74		
1,2,3,7,8-PeBDF	PCB-66		
2,3,4,7,8-PeBDF	PCB-87		
1,2,3,4,7,8-HxBDF	PCB-99		
1,2,3,4,6,7,8-HpBDF	PCB-110		
END OF LIST	PCB-128		
	PCB-129		
	PCB-141		
	PCB-149		
	PCB-151		
	PCB-170		
	PCB-183		
	PCB-185		
	PCB-187		
	PCB-191		
	PCB-193		
	PCB-194		
	PCB-201		
	PCB-202		
	PCB-203		
	PCB-206		
	PCB-208		
	PCB-209		
	END OF LIST		

END OF TABLE 5