

Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>1642</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>The Food and Environment Research Agency</h3> <p>Issue No: 050 Issue date: 12 April 2012</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</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</p>
ANIMAL TISSUE, FLUIDS AND PRODUCTS	<p>Organic environmental contaminants Pesticide residues Veterinary residues</p>	
DOMESTIC HOUSEHOLD CHEMICALS	<p>Active ingredients Compositional analysis Organic environmental contaminants Packaging ingredients Pesticide residues Process contaminants</p>	
ENVIRONMENTAL SAMPLES WATER	<p>Organic environmental contaminants Pesticide residues Veterinary residues</p>	
FOOD CONTACT MATERIALS AND ARTICLES	<p>Packaging ingredients</p>	



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Screening for Aminoglycosides and spectinomycin Dihydrostreptomycin Streptomycin Spectinomycin Paromomycin Apramycin Kanamycin Gentamicin Neomycin</p> <p>Antimicrobials screen including: Cephalosporins Dapsone Macrolides Penicillins Sulphonamides</p> <p>Antimicrobials screening including: Sulphonamides Macrolides Penicillins Tetracyclines</p> <p>Screening for Tetracyclines including: Chlortetracycline Doxycycline Oxytetracycline Tetracycline</p> <p>Screening, quantification and confirmation for Avermectins: Abamectin Doramectin Emamectin Eprinomectin Ivermectin Moxidectin</p>	<p>Documented In-House Methods identified by method number</p> <p>FSG 350 using LC-MS/MS</p> <p>FSG/328 using Delvotest microbiological test kit</p> <p>FSG/337 using PremiTest microbiological test kit</p> <p>FSG/358 using Tetrasensor</p> <p>FSG/302 using HPLC with Fluorimetric detection and/or LC-MS/MS</p>



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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
	Screening, quantification and confirmation for basic veterinary drug residues: (See Table 3 for list of basic drugs)	FSG/322 using multi-residue extraction and clean-up procedure using HPLC with UV and Fluorimetric detection/LC-MS/MS
	Chloramphenicol (qualitative screening)	FSG/320 using ELISA
	Chloramphenicol (screening)	FSG/344 using SPR Biacore Q Biosensor
	Screening for Nitroimidazoles Dimetridazole Metronidazole Ronidazole Hydroxy-dimetridazole Hydroxy-metronidazole Ipronidazole Hydroxy-ipronidazole	FSG 369 using SPR Biacore Q Biosensor
	Streptomycin	FSG/345 using Biacore Q Biosensor
	Screening, quantification and confirmation for Tetracyclines	FSG/343 using HPLC with UV detection and LC-MS/MS
	Screening, quantification and confirmation for Sulphonamides (see Table 3 for list of analytes)	FSG/308 using High Performance Thin Layer Chromatography (HPTLC) and LC-MS/MS
	Screening for Trenbolone	FSG/333 using ELISA
	Zeranol	FSG/329 using ELISA
Animal muscle (bovine, porcine, ovine) Animal offal (bovine, porcine, ovine liver) poultry offal (chicken liver)	Screening, quantification and confirmation of: β Agonists (see Table 3 for list of analytes)	FSG/348 using LC-MS/MS



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<u>Chemical Tests</u> (cont'd) Screening, confirmation and quantification of veterinary residues	Documented In-House Methods identified by method number
HONEY	Chloramphenicol	FSG/342 using Solid Phase Extraction and LC-MS/MS
	Fluoroquinolones/Quinolones	FSG/352 using LC-MS/MS
	Macrolides and Dapsone	FSG/354 using LC-MS/MS
	Penicillins	FSG/353 using LC-MS/MS
ANIMAL TISSUE and FOODS of ANIMAL ORIGIN HONEY SHELLFISH	Nitrofurans metabolites as markers of nitrofurans antibiotic drug use 3-amino-2-oxazolidinone (AOZ) 5-methylmorpholine-3-amino-2-oxazolidinone (AMOZ) l-aminohydantoin (AHD) semicarbazide (SEM)	FSG/341 using LC-MS/MS
SAMPLE EXTRACTS prepared from ANIMAL FEED, ANIMAL TISSUE, FOODS of ANIMAL ORIGIN, FOODSTUFFS and ENVIRONMENTAL SAMPLES	Identification and quantitative determination of veterinary drug residues including: Avermectins Benzimidazoles Carazolol Ciprofloxacin Dinitrocarbanilide Enrofloxacin Flumequine Lasalocid Levamisole Malachite green Nalidixic acid Nitroimidazoles Oxolinic acid Sarafloxacin Sulphonamides Tetracyclines Tranquilisers	FSG/002 using LC-MS and LC-MS/MS



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ANIMAL TISSUE and FOODS of ANIMAL ORIGIN (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>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)</p> <p>Screening, quantification and confirmation of florfenicol at residue levels</p> <p>Screening, quantification and confirmation for: Non-steroidal Anti-inflammatory Drugs (NSAIDs) Diclofenac Flunixin Ibuprofen Meloxicam Naproxen Phenylbutazone Vedaprofen Carprofen</p>	<p>Documented In-House Methods identified by method number</p> <p>FSG 357 using extraction and clean-up procedures followed by LC/MS/MS</p> <p>FSG/339 using LC-MS/MS</p> <p>FSG 370 using LC-MS/MS</p>
Animal urine (bovine, porcine, ovine)	<p>Thyrostats: Methimazole (Tapazole) Phenylthiouracil Propylthiouracil Thiouracil Methylthiouracil</p>	<p>FSG 368 using LC-MS/MS</p>
ANIMAL PRODUCTS CHOCOLATE HIGH FAT AND OIL PRODUCTS FISH and FISH PRODUCTS MEAT and MEAT PRODUCTS	<p>Pesticide residues - detection, quantification and confirmation covering Organochlorine Pesticides: (see Table 2 for the list of analytes)</p>	<p>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</p>



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	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
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
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
	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
	2,4-D and Dichlorprop	FSG/177 using GC-MS
	Maleic hydrazide	FSG/162 using High Performance Liquid Chromatography (HPLC) and UV detection
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



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	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
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
SUGAR TREATED WATER	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
TREATED WATER	Detection, quantification and confirmation of pesticide residues (see Table 2 for the list of analytes)	Extraction and SPE clean-up using FSG/173 and GC-MS
LEAFY VEGETABLES	Inorganic bromide	FSG/165 GC-ECD and GC-MS
CEREALS CEREAL PRODUCTS INFANT FOOD	ETU and iso-PTU	FSG/164 using HPLC-MS/MS
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



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ANIMAL FEEDS, BEVERAGES, FOODS and HUMAN TISSUES CROPS SOILS POLLUTANTS and EFFLUENTS (solid)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Polybrominated dibenzo-<i>p</i>-dioxins (PBDDs) (see Table 4 for list of analytes)</p> <p>Polybrominated dibenzofurans (PBDFs) (see Table 4 for list of analytes)</p> <p>Polychlorinated dibenzo-<i>p</i>-dioxins (PCDDs) and Total TEQ (see Table 4 for list of analytes)</p> <p>Polychlorinated dibenzofurans (PCDFs): (see Table 4 for list of analytes)</p> <p>see Table 4 for list of analytes</p> <p>ICES 6/Non-Dioxin Like Polychlorinated biphenyls (NDL indicators PCBs)</p> <p>Dioxin-Like Polychlorinated biphenyls (DL-PCBs)</p> <p>Additional Polychlorinated biphenyls (PCBs)</p> <p>Polybrominated biphenyls (PBBs) (Non-ortho and ortho) (see Table 4 for list of analytes)</p> <p>Polybrominated diphenyl ethers (PBDEs) (see Table 4 for list of analytes)</p>	<p>Documented In-House Methods identified by method number</p> <p>FSG/407, FSG/409, FSG/412, FSG/413 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³C - labelled internal standards</p> <p>FSG/408, FSG/409, using High Resolution Gas Chromatography-High and Low Resolution Mass Spectrometry Isotope Dilution with ¹³C - labelled internal standards</p> <p>FSG/412, FSG/413 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³C - labelled internal standards</p> <p>FSG/412 using High Resolution Gas Chromatography-High Resolution Mass Spectrometry Isotope Dilution with ¹³C - labelled Internal standards</p>
FOODS	<p>Polynuclear aromatic hydrocarbons (PAHs) (see Table 4 for list of analytes)</p>	<p>FSG/410 using High Resolution Gas Chromatography-Low Resolution Mass Spectrometry Isotope Dilution with ¹³C - labelled internal standards</p>



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BABY FOODS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number	
	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	
	Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSG/251 using immuno-affinity column clean-up and HPLC with post column derivatisation	
	Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC	
	FOODS BEVERAGES	Acesulfame-K Aspartame Saccharin	FSG/259 using HPLC
		Acrylamide	FSG/262 using Gas Chromatography Mass Spectrometry (GC-MS)
		Benzoic acid Sorbic acid	FSG/256 using HPLC
		Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	FSG/251 using immuno-affinity column clean-up and HPLC with post column derivatisation
		Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC
		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
MILK INFANT FORMULA	Nitrate Nitrite	FSG/255 using HPLC	
	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	



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CEREALS CEREAL PRODUCTS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number
	Deoxynivalenol	FSG/260 using immuno-affinity clean-up and HPLC
	Fumonisin B ₁ , B ₂ , B ₃	FSG/264 using immuno-affinity clean-up and HPLC
	Ochratoxin A	FSG/252 using immuno-affinity column clean-up and HPLC
	Trichothecenes	FSG/263 using solid phase clean-up and GC-MS or LC/MS/MS
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
SOYA/MAIZE FLOUR MAIZE KERNELS SOYA BEANS FOODS BEVERAGES (near neutral pH)	Detection of: Genetically modified soya/maize RR Soya BT 176 maize	Standard Operation Procedures covering sample preparation, DNA extraction, Polymerase Chain Reaction (PCR) amplification and electrophoretic detection
MATRICES/ELEMENTS THAT ARE ACID DIGESTABLE/ SOLUBLE INCLUDING: ANIMAL FEEDS BEVERAGES FOODS CROPS SOILS SAMPLES OF CLINICAL ORIGIN (covering blood, serum and organs of animal/human origin)	Single and multi-elemental analysis Bromine Chlorine Iodine	Schedule BITES-1 and supporting extraction procedures using inductively coupled plasma - quadruple mass spectrometry and high resolution mass spectrometry (ICP-MS) Schedule BITES-1 and supporting alkaline extraction (TMAH) using ICP-MS



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ANIMAL FEEDS FOODS	<u>Chemical Tests</u> (cont'd) Arsenic (Inorganic)	Documented In-House Methods identified by method number Schedule BITES - 1 using supporting solvent extraction followed by high resolution mass spectrometry
FRUITS BEVERAGES	D/H _I and D/H _{II} ratio determination for ethanol ¹³ C/ ¹² C ratio determination for ethanol	FSG/751 and FSG/752 using SNIF-NMR FSG/751 and FSG/753 using EA-C-IRMS
FOOD CONTACT MATERIALS AND ARTICLES	<u>Chemical/Physical Tests</u> Overall migration from packaging materials into fatty food simulants by total immersion Overall migration from packaging materials into aqueous food simulants by total immersion Primary Aromatic Amines in 3% aqueous acetic acid food simulant Total Primary Aromatic Amines in 3% aqueous acetic acid food simulant Formaldehyde and hexamethylenetetramine in 3% acetic acid food simulant	Documented In-House Methods identified by method number FSG/651 using GC-FID FSG/652 using Gravimetric technique FSG 679 using LC-MS/MS FSG 685 using spectrophotometry FSG 684 using spectrophotometry
TISSUE AND CLINICAL MATERIAL FROM BADGERS (covering urine, faeces, tracheal aspirates, oesophageal aspirates and swabs)	<u>Microbiological Tests</u> Detection of: <i>Mycobacterium bovis</i>	Documented In-House Procedures PLH/407 for TISSUE samples and PLH/404 for clinical samples



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<p>FOODSTUFFS</p> <p>SAMPLES PREPARED FOR THE PURPOSES OF PROVISION OF PROFICIENCY TESTING MATERIALS</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Detection of:</p> <p><i>Clostridium botulinum</i> and <i>Clostridium botulinum</i> toxins</p> <p>Enumeration of:</p> <p>Total viable colony count at 30°C</p> <p>Detection of:</p> <p><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>HUMAN BODY FLUIDS/TISSUES</p> <p>- Blood and epithelial cells including "touch samples"</p> <p>- DNA Swabs</p>	<p><u>Molecular Tests</u></p> <p>DNA Profiling:</p> <p>Analysis of Short Tandem Repeat</p>	<p>Documented In-House Methods identified by method number</p> <p>DNA 9, 30 - 32 using extraction, quantitation, amplification, capillary electrophoresis and data analysis by GMID and GMID-X</p>
<p>PLANTS and PLANT MATERIALS</p>	<p><u>Plant Health Diagnostic Tests</u></p> <p>Diagnosis of plant pathogenic bacteria</p> <p>Qualitative analysis for the diagnosis of plant pathogens and pests</p>	<p>PLH/019 by fatty acid profiling using GC</p> <p>PLH/135 using real-time PCR</p>



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PLANTS and PLANT MATERIALS (cont'd)	<u>Plant Health Diagnostic Tests</u> (cont'd)	
	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
LEAF MATERIAL FROM SUSCEPTIBLE SOLANACEOUS HOSTS	Detection of:	
	Potato spindle tuber viroid (PSTVd)	PLH/077 using real-time PCR
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
POTATO HEEL ENDS	Brown rot (<i>Ralstonia solanacearum</i>) and Ring rot (<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>) with associated confirmatory testing	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
STRAWBERRY PLANTS	<i>Colletotrichum acutatum</i>	PLH/035 by ELISA
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
PLANTS, PLANT MATERIALS AND SOILS	Nematode species	PLH/049 by image analysis for digital capture and measurement
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



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PLANTS and PLANT MATERIALS (cont'd)	<u>Plant Health Diagnostic Tests</u> (cont'd) Detection of Columnea latent viroid Diagnosis of Chrysanthemum stunt viroid Morphological identification of Thrips palmi adults	 PLH/199 using real-time TaqMan RT-PCR PLH/809 using real-time TaqMan RT-PCR PLH/155 by microscopy
	END	



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TABLE 1: PESTICIDES

FSG 151 Acetone extraction	FSG 154 Ethyl acetate extraction	FSG 160 Acetone/methanol extraction	FSG 167 Acetonitrile extraction
2-phenylphenol	2-phenylphenol	2-phenylphenol	2,4-D
acetochlor	acrinathrin	amitraz	acephate
aldrin	aldrin	atrazine	acetamiprid
amitraz	allethrin	azinphos-methyl	acetochlor
atrazine	amitraz	azoxystrobin	acibenzolar-S-methyl
azinphos-methyl	atrazine	benalaxyl	alachlor
azoxystrobin	azinphos-ethyl	bendiocarb	aldicarb
benalaxyl	azinphos-methyl	bifenthrin	aldicarb sulfone
bendiocarb	azoxystrobin	biphenyl	aldicarb sulfoxide
bifenthrin	benalaxyl	bitertanol	amitraz
bioresmethrin	bendiocarb	boscalid	atrazine
biphenyl	bifenthrin	bromophos	azinphos-methyl
bitertanol	biphenyl	bromopropylate	azoxystrobin
boscalid	bitertanol	bupirimate	bendiocarb
bromophos	boscalid	buprofezin	bentazone
bupirimate	bromophos	cadusafos	benthiavalicarb
buprofezin	bromophos-methyl	captan	bifenazate
cadusafos	bromopropylate	carbaryl	bioresmethrin
captan	bupirimate	carbofuran	boscalid
carbaryl	buprofezin	chlorfenviphos	bromoxynil
carbofuran	cadusafos	chlorobenzilate	butachlor
carfentrazone-ethyl	captafol	chlorothalonil	butocarboxim
chlordane (cis)	captan	chlorpropham	butocarboxim sulfone
chlordane (trans)	carbaryl	chlorpyrifos	butocarboxim sulfoxide
chlordimeform	carbofuran	chlorpyrifos-methyl	cadusafos
chlorfenviphos	chlordane (cis)	chlorthal-dimethyl	carbaryl
chloridazon	chlordane (trans)	chlozolinat	carbendazim
chlorobenzilate	chlorfenviphos	clomazone	carbofuran
chlorothalonil	chloridazon	coumaphos	carbofuran (3-hydroxy)
chlorpropham	chlorobenzilate	cyfluthrin	carfentrazone-ethyl
chlorpyrifos	chlorothalonil	cyhalothrin-lambda	chlorfenapyr
chlorpyrifos-methyl	chlorpropham	cypermethrin	chloridazon
chlorthal-dimethyl	chlorpyrifos	cyproconazole	chlortoluron
chlozolinat	chlorpyrifos-methyl	cyprodinil	clethodim
clomazone	chlorthal-dimethyl	DDD-pp	clofentezine
coumaphos	chlozolinat	DDD-op	clothianidin
cyanazine	clomazone	DDE-pp	cyazofamid
cyfluthrin	coumaphos	DDE-op	cycloxydim
cyhalothrin-lambda	cyanazine	DDT-op	cyflufenamid
cypermethrin	cyfluthrin	DDT-pp	cymoxanil
cyproconazole	cyhalothrin-lambda	deltamethrin	cyproconazole
cyprodinil	cypermethrin	diazinon	cyprodinil
DDD-pp	cyproconazole	dichlofluanid	demeton-S-methyl
DDD-op	cyprodinil	dichlorvos	demeton-S-methyl sulfone
DDE-op	DDD-op	dicloran	desmedipham



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DDE-pp	DDD-pp	dicofol	dicamba
DDT-op	DDE-op	difenoconazole	dichlorprop
DDT-pp	DDE pp	diflufenican	dichlorvos
deltamethrin	DDT-op	dimethoate	diethofencarb
diazinon	DDT-pp	dimethomorph	difenoconazole
dichlobenil	deltamethrin	diphenylamine	diflubenzuron
dichlofluanid	diazinon	endosulfan (I)	dimethenamid
dichlorvos	dichlobenil	endosulfan (II)	dimethoate
dicloran	dichlofluanid	endosulfan sulfate	dimethomorph
dicofol	dichlorvos	EPN	dimoxystrobin
dieldrin	dicloran	epoxiconazol	disulfoton
difenoconazole	dicofol	ethion	disulfoton sulfone
dimethenamid	dicrotophos	ethofumesate	disulfoton sulfoxide
dimethoate	dieldrin	ethoprophos	dithianon
dimethomorph	difenoconazole	etridiazole	diuron
diphenylamine	diflufenican	etrimfos	dodine
endosulfan (I)	dimethoate	famoxadone	epoxiconazole
endosulfan (II)	dimethomorph	fenarimol	EPTC
endosulfan sulfate	diphenylamine	fenazaquin	ethiofencarb
endrin	edifenfos	fenbuconazole	ethiofencarb sulfone
EPN	endosulfan (I)	fenitrothion	fenamidone
epoxiconazole	endosulfan (II)	fenoxycarb	fenamiphos
EPTC	endosulfan sulfate	fenpropathrin	fenamiphos sulfone
esfenvalerate	endrin	fenpropidin	fenamiphos sulfoxide
ethion	EPN	fenpropimorph	fenbuconazole
ethofumesate	epoxiconazole	fenvalerate	fenhexamid
ethoprophos	ethion	flucythrinate	fenoprop
etridiazole	ethofumesate	fludioxonil	fenoxycarb
etrimfos	ethoprophos	flufenacet	fenpropimorph
famoxadone	ethoxyquin	fluquinconazole	fenpyroximate
fenarimol	etridiazole	flusilazole	fensulfothion
fenazaquin	etrimfos	fluvalinate	fensulfothion sulfone
fenbuconazole	famoxadone	folpet	fensulfothion sulfoxide
fenitrothion	fenarimol	fonofos	fenthion
fenoxycarb	fenazaquin	furalaxyl	fenthion sulfone
fenpropathrin	fenbuconazole	HCH-gamma	fenthion sulfoxide
fenpropidin	fenitrothion	heptenophos	fentin acetate
fenpropimorph	fenoxycarb	hexachlorobenzene	fipronil
fenvalerate	fenpropathrin	hexaconazole	fluazifop (free acid)
fluazifop-butyl	fenpropidin	imazalil	fluazinam
flucythrinate	fenpropimorph	iprodione	fludioxonil
fludioxonil	fenvalerate	isazofos	flufenacet
fluquinconazole	fluazifop-butyl	isofenphos	flufenoxuron
flurochloridone	flucythrinate	isofenphos-methyl	fluopicolide
flusilazole	fludioxonil	isoproturon	fluoxastrobin
folpet	flufenacet	kresoxim-methyl	fluroxypyr
fonofos	fluquinconazole	malathion	flutolanil
furalaxyl	flurochloridone	mecarbam	flutriafol
haloxyfop-methyl	flusilazole	mepanipyrim	fosthiazate
HCH-alpha	fluvalinate	mephosfolan	furathiocarb



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HCH-beta	folpet	metalaxyl	furmecyclox
HCH-delta	fonofos	metconazole	halosulfuron-methyl
HCH-gamma	formothion	methacrifos	haloxyfop (free acid)
heptachlor	furalaxyl	methidathion	heptenophos
heptachlor epoxide (<i>cis</i>)	HCH-alpha	methiocarb	hexythiazox
heptachlor epoxide (<i>trans</i>)	HCH-beta	methoxychlor	imazalil
heptenophos	HCH-gamma	metoxuron	imidacloprid
hexachlorobenzene	HCH-delta	metribuzin	indoxacarb
hexaconazole	heptachlor	mevinphos	ioxynil
imazalil	heptachlor epoxide (<i>cis</i>)	myclobutanil	iprovalicarb
ioxynil	heptachlor epoxide (<i>trans</i>)	napropamide	isoprocarb
iprodione	heptenophos	nitrofen	isoproturon
isazofos	hexachlorobenzene	nitrothal-isopropyl	kresoxim-methyl
isofenphos	hexaconazole	ofurace	linuron
isofenphos-methyl	imazalil	oxadixyl	lufenuron
kresoxim-methyl	iprodione	paclobutrazol	malathion
lenacil	isazofos	parathion	MCPA
malaoxon	isocarbophos	parathion-methyl	mecarbam
malathion	isofenphos	penconazole	mecoprop
mecarbam	isofenphos-methyl	pendimethalin	mepanipyrim
mepanipyrim	kresoxim-methyl	pentanochlor	metalaxyl
mephosfolan	lenacil	permethrin	methamidophos
metalaxyl	malathion	phenthoate	methiocarb
metamitron	malaoxon	phosalone	methiocarb sulfoxide
methacrifos	mecarbam	phosmet	methiocarb sulphone
methidathion	mepanipyrim	phosphamidon	methomyl
methiocarb	mephosfolan	pirimicarb	methoxyfenozide
methoxychlor	metalaxyl	pirimiphos-ethyl	metolachlor
metolachlor	metconazole	pirimiphos-methyl	metolcarb
metoxuron	methacrifos	prochloraz	metrafenone
metribuzin	methidathion	procymidone	metsulfuron-methyl
mevinphos	methiocarb	profenofos	mevinphos
myclobutanil	methoxychlor	prometryn	monocrotophos
napropamide	metolachlor	propachlor	omethoate
nitrothal-isopropyl	metoxuron	propanil	oxadixyl
ofurace	metribuzin	propargite	oxamyl
oxadixyl	mevinphos	propetamphos	oxydemeton-methyl
oxychlorthane	monocrotophos	propham	paclobutrazol
paclobutrazol	myclobutanil	propiconazole	penconazole
paraoxon	napropamide	propoxur	pencycuron
paraoxon-methyl	nitrofen	propyzamide	pentachlorophenol
parathion	nitrothal-isopropyl	prothioconazole	phenmedipham
parathion-methyl	ofurace	prothiofos	phorate
penconazole	omethoate	pyrazophos	phorate sulfone
pendimethalin	oxadixyl	pyridaphenthion	phorate sulfoxide
pentachloroaniline	oxychlorthane	pyrifenox	picoxystrobin
Pentachlorothio-anisole	paclobutrazol	pyrimethanil	piperonyl butoxide
pentanochlor	parathion	quinalphos	pirimicarb
permethrin	parathion-methyl	quinomethionate	prochloraz



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phenmedipham	penconazole	quinoxifen	propamocarb
phenthoate	pendimethalin	quintozene	propaquizafop
phosalone	pentanochlor	simazine	propham
phosmet	permethrin	tebuconazole	propiconazole
phosphamidon	phenthoate	tebufenpyrad	propoxur
pirimicarb	phosalone	tecnazene	propyzamide
pirimiphos-ethyl	phosmet	tefluthrin	pymetrozine
pirimiphos-methyl	phosphamidon	terbuthylazine	pyraclostrobin
prochloraz	pirimicarb	terbutryn	pyrethrins
procymidone	pirimiphos ethyl	tetrachlorvinphos	pyridate
profenofos	pirimiphos-methyl	tetradifon	pyriproxyfen
prometryn	prochloraz	thiabendazole	quassia
propachlor	procymidone	tolclofos-methyl	quinoxifen
propanil	profenofos	tolyfluanid	rimsulfuron
propargite	prometryn	triallate	rotenone
propetamphos	propachlor	triazophos	spinosad
propham	propanil	trifloxystrobin	spiromesifen
propiconazole	propargite	trifluralin	spiroxamine
propoxur	propetamphos	vinclozolin	tebuconazole
propyzamide	propham		tebufenozide
prothiofos	propiconazole		tebufenpyrad
pyrazophos	propoxur		teflubenzuron
pyridaphenthion	propyzamide		tepraloxydim
pyrifenox	prothioconazole		terbufos
pyrimethanil	prothiofos		terbufos sulfone
quinalphos	pyrazophos		terbufos sulfoxide
quinomethionate	pyridaben		tetraconazole
quintozene	pyridaphenthion		thiabendazole
quizalopfop ethyl	pyrifenox		thiacloprid
simazine	pyrimethanil		thiamethoxam
tebuconazole	quinalphos		thiodicarb
tebufenpyrad	quinomethionate		thiophanate-methyl
tecnazene	quinoxifen		triadimefon
tefluthrin	quintozene		triadimenol
tepraloxydim	simazine		triallate
terbuthylazine	tebuconazole		triazamate (free acid)
terbutryn	tebufenpyrad		trichlorfon
tetrachlorvinphos	tecnazene		tricypyr
tetraconazole	tefluthrin		trifloxystrobin
tetradifon	terbuthylazine		triflurosulfuron-methyl
thiabendazole	terbutryn		zoxamide
thiamethoxam	tetrachlorvinphos		
tolclofos-methyl	tetraconazole		
tolyfluanid	tetradifon		
triadimefon	tetramethrin		
triallate	thiabendazole		
triazophos	Tolclofos -methyl		
trifloxystrobin	tolyfluanid		
trifluralin	triallate		
vinclozolin	triazophos		



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	trifloxystrobin		
	trifluralin		
	vinclozolin		

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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	DDD-pp	acephate
2,4,5-T	DDD-pp	DDD-op	cadusafos
2,4-D	DDD-op	DDE-pp	chlorfenvinphos
2,4-DB	DDE-op	DDE-op	chlorpyrifos
acetochlor	DDE-pp	DDT-op	chlorpyrifos-methyl
alachlor	DDT-op	DDT-pp	diazinon
aldicarb	DDT-pp	HCH-alpha	dichlorvos
aldicarb sulfone	HCH-alpha	HCH-beta	ethoprophos
aldicarb sulfoxide	HCH-beta	HCH-delta	methamidophos
azoxystrobin	HCH-delta	HCH-gamma	omethoate
bendiocarb	HCH-gamma	aldrin	propetamphos
bentazone	aldrin	chlordane (cis)	
bromoxynil	atrazine	chlordane (trans)	
butachlor	chlordane (cis)	dieldrin	
cadusafos	chlordane (trans)	endosulfan (I)	
carbaryl	chlorpyrifos	endosulfan (II)	
carbendazim	cyanazine	endosulfan sulfate	
carbofuran	cypermethrin	endrin	
carbofuran (3-hydroxy)	deltamethrin	heptachlor	
carfentrazone-ethyl	dieldrin	heptachlor epoxide (trans)	
chloridazon	endosulfan (I)	heptachlor epoxide (cis)	
chlortoluron	HCH-beta	hexachlorobenzene	
clethodim	HCH-delta	oxychlordane	
clothianidin	HCH-gamma	PCB 101	
cycloxydim	aldrin	PCB 118	
demeton S-methyl	atrazine	PCB 138	
demeton S-methyl sulfone	chlordane (cis)	PCB 153	
desmedipham	chlordane (trans)	PCB 180	
dicamba	chlorpyrifos	PCB 28	
dichlorprop	cyanazine	PCB 52	
dimethenamid	cypermethrin		
dimethoate	deltamethrin		
disulfoton	dieldrin		
disulfoton sulfone	endosulfan (I)		
disulfoton sulfoxide	endosulfan (II)		
diuron	endosulfan-sulfate		
EPTC	endrin		
fenamiphos	ethion		
fenamiphos sulfone	fenitrothion		
fenamiphos sulfoxide	heptachlor		
fenoprop	heptachlor epoxide (trans)		
fenthion	hexachlorobenzene		
fenthion sulfone	malaoxon		



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fenthion sulfoxide	malathion		
fentin acetate	methoxychlor		
fipronil	oxychlorane		
fluazifop-butyl (free acid)	paraoxon-methyl		
fluroxypyr	parathion		
flutriafol	parathion-methyl		
halosulfuron-methyl	pendimethalin		
haloxyfop-(free acid)	permethrin		
imazalil	propanil		
imidacloprid	simazine		
ioxynil	terbutylazine		
isoproturon	trifluralin		
kresoxim-methyl			
linuron			
MCPA			
mecoprop			
metalaxyl			
methiocarb			
methiocarb sulfone			
methiocarb sulfoxide			
methomyl			
methoxyfenozide			
metolachlor			
metsulfuron-methyl			
molinate			
oxamyl			
oxydemeton-methyl			
pentachlorophenol			
phenmedipham			
phorate			
phorate sulfone			
phorate sulfoxide			
pirimicarb			
propaquizafop			
propoxur			
pyriproxyfen			
tebuconazole			
tebufenozide			
terbufos			
terbufos sulfone			
terbufos sulfoxide			
thiabendazole			
triadimefon			
triadimenol			
triallate			
triazamate (free acid)			
triclopyr			



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trichlorfon			
triflusulfuron-methyl			
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TABLE 3: VETERINARY DRUGS

FSG 357 (multiresidue)	FSG 322 (basic drugs)	FSG 348 (β -agonists - multiresidue)	FSG 308 (sulphonamides)
Cocciostats:	albendazole	salbutamol	sulphaguanidine
dinitrocarbanilide	thiabendazole	terbutaline	sulphadiazine
lasalocid	oxfendazole	clenbuterol	sulphathiazole
monensin	mebendazole	brombuterol	sulphapyridine
maduramycin	fenbendazole	mabuterol	sulphamerazine
narasin	levamisole	clenpenterol	sulphamethizole
salinomycin	dimetridazole	cimaterol	sulphamethazine
diclazuril	2-hydroxydimetridazole	zilpaterol	sulphamethoxypyridazine
	ronidazole	cimbuterol	sulphadoxine
Nitrimidazoles:	metronidazole	ractopamine	sulphadimethoxine
dimetridazole	malachite green	hydroxymethylclenbuterol	sulphamoxole
hydroxydimetridazole	leucomalachite green	tulobuterol	sulphachlorpyridazine
hydroxyipronidazole	crystal violet	mapenterol	sulphamethoxazole
hydroxymetronidazole	leucocrystal violet	salmeterol	sulphamonomethoxine
ipronidazole	sulphadiazine	clenproperol	sulphaquinoxaline
metronidazole	sulphaguanidine	isoxuprine	sulphisoxazole
ronidazole	sulphathiazole		
	sulphapyridine		
Quinolones/Fluoroquinolones	sulphamerazine		
ciprofloxacin	sulphamethizole		
danofloxacin	sulphamethazine		
difloxacin	sulphamethoxypyridazine		
enrofloxacin	sulphadoxine		
flumequine	sulphadimethoxine		
marbofloxacin	sulphachlorpyridazine		
nalidixic acid	sulphanilamide		
norfloxacin	sulphaquinoxaline		
oxolinic acid			
sarafloxacin			
Sulphonamides			
sulphaguanidine			
sulphadiazine			
sulphathiazole			
sulphapyridine			
sulphamerazine			
sulphamethizole			
sulphamethazine			
sulphamethoxypyridazine			
sulphadoxine			
sulphadimethoxine			
sulphamoxole			
sulphachlorpyridazine			
sulphamethoxazole			
sulphamonomethoxine			
sulphaquinoxaline			



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sulphisoxazole			
Dyes			
crystal violet			
leucocrystal violet			
leucomalachite green			
malachite green			
azure B			
brilliant green			
ethyl violet			
methylene blue			
new methylene blue			
nile blue A			
pararosaniline base			
rhodamine 6G			
victoria blue R			
victoria blue B			
victoria pure blue BO			
Macrolides			
3-O-acetyltylosin			
erythromycin			
lincomycin			
gamithromycin			
tylosin			
josamycin			
rifampicin			
tilmicosin			
tylvalosin			
virginiamycin M1			
spiramycin			
Tranquillisers			
acepromazine			
azaperol			
azaperone			
carazolol			
chlorpromazine			
haloperidol			
propionylpromazine			
xylazine			
Phenolic Anthelmintics			
closantel			
nitroxynil			
oxyclozanide			
rafoxinide			



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Benzimidazoles			
albendazole			
albendazole sulfone			
albendazole sulfoxide			
albendazole-2-aminosulfone			
febantel			
fenbendazole			
fenbendazole sulfone			
flubendazole			
hydroxymebendazole			
5-hydroxythiabendazole			
levamisole			
mebendazole			
mebendazole amine			
oxfendazole			
oxibendazole			
thiabendazole			
triclabendazole			
triclabendazole sulfone			
triclabendazole sulfoxide			
2-aminoflubendazole			
ketotriclabendazole			
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TABLE 4: Dioxins and PAHs

FSG 407/409/412/413	FSG 408/409	FSG 410	FSG 412/413
Polychlorinated dibenzo-p-dioxins (PCDDs) & Sum of WHO TEQ	ICES 6 / Non-Dioxin Like Polychlorinated biphenyls (NDL - Indicator PCBs)	Polynuclear aromatic hydrocarbons (PAHs)	Polybrominated biphenyls (PBBs) (Non-ortho and ortho)
2,3,7,8-TCDD	PCB-28	benzo-[a]-pyrene (PAH 4)	PBB-77
1,2,3,7,8-PeCDD	PCB-52	benz [a] anthracene (PAH 4)	PBB-126
1,2,3,4,7,8-HxCDD	PCB-101	chrysene (PAH 4)	PBB-169
1,2,3,6,7,8-HxCDD	PCB-138	benzo-[b]-fluoranthene (PAH 4)	PBB-15
1,2,3,7,8,9-HxCDD	PCB-153	acenaphthylene	PBB-49
1,2,3,4,6,7,8-HpCDD	PCB-180	acenaphthene	PBB-52
OCDD		fluorene	PBB-80
	Dioxin-Like Polychlorinated biphenyls (DL-PCBs)	anthracene	PBB-101
Polychlorinated dibenzofurans (PCDFs):	PCB-77	phenanthrene	PBB-153
2,3,7,8-TCDF	PCB-81	fluoranthene	
1,2,3,7,8-PeCDF	PCB-126	benzo[c]fluorene	Polybrominated diphenyl ethers (PBDEs)
2,3,4,7,8- PeCDF	PCB-169	pyrene	PBDE-17
1,2,3,4,7,8- HxCDF	PCB-105	benzo[ghi]fluoranthene	PBDE-28
1,2,3,6,7,8- HxCDF	PCB-114	benzo[b]naphtha[2,1-d]thiophene	PBDE-47
1,2,3,7,8,9- HxCDF	PCB-118	cyclopenta[c,d]pyrene	PBDE-49
2,3,4,6,7,8- HxCDF	PCB-123	5-methylchrysene	PBDE-66
1,2,3,4,6,7,8-HpCDF	PCB-156	benzo-[j]-fluoranthene	PBDE-71
1,2,3,4,7,8,9- HpCDF	PCB-157	benzo-[k]-fluoranthene	PBDE-77
OCDF	PCB-167	benzo-[e]-pyrene	PBDE-85
	PCB-189	indeno-[1,2,3-cd] pyrene	PBDE-99
Polybrominated dibenzo-p-dioxins (PBDDs)		dibenz-[ah]-anthracene	PBDE-100
2,3,7-T ₃ BDD	Additional Polychlorinated biphenyls (PCBs)	anthanthrene	PBDE-119
2,3,7,8-TBDD	PCB-18	benzo-[g,h,i] perylene	PBDE-126
1,2,3,7,8-PeBDD	PCB-31	dibenzo[a,l]pyrene	PBDE-153
1,2,3,4,7,8-HxBDD/	PCB-33	dibenzo[a,e]pyrene	PBDE-138
1,2,3,6,7,8-HxBDD	PCB-37	dibenzo[a,i]pyrene	PBDE-154
1,2,3,7,8,9-HxBDD	PCB-41	dibenzo[a,h]pyrene	PBDE-183
	PCB-44	coronene	



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Polybrominated dibenzofurans (PBDFs)	PCB-47		
2,3,8-T ₃ BDF	PCB-49		
2,3,7,8-TBDF	PCB-51		
1,2,3,7,8-PeBDF	PCB-56/60		
2,3,4,7,8-PeBDF	PCB-61/74		
1,2,3,4,7,8-HxBDF	PCB-66		
1,2,3,4,6,7,8-HpBDF	PCB-87		
	PCB-99		
	PCB-110		
	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 TABLE