

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO/IEC 17025:2005</b>	<b>SASA</b>	
	<b>Issue No: 041    Issue date: 09 March 2018</b>	
	<b>Roddinglaw Road Edinburgh EH12 9FJ</b>	<b>Contact: Ms Susan Ross Tel: +44 (0)131 244 8809 Fax: +44 (0)131 244 8940 E-Mail: Susan.Ross@sasa.gsi.gov.uk Website: www.sasa.gov.uk</b>
<b>Testing performed at the above address only</b>		

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

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Roddinglaw Road Edinburgh EH12 9FJ	<b>Local contact</b> Ms Susan Ross  Tel: +44 (0)131 244 8809 Fax: +44 (0)131 244 8940 Email: Susan.Ross@sasa.gsi.gov.uk	Quality management Chemical testing Seed testing Virological testing Molecular testing Forensic Testing Bacteriology testing	Rodd

#### Site activities performed away from the locations listed above:

Location details		Activity	Location code
<b>Address</b> Pentlands Science Park	<b>Local contact</b> Dr Wendy Monger  Tel: +44 (0)131 445 6165 Email: Wendy.Monger@sasa.gsi.gov.uk	Virological testing Molecular testing	Pentlands



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**SASA****Issue No: 041 Issue date: 09 March 2018**

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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
Wildlife – animal tissue, digestive tract content and liver	<u>Chemical Tests</u> Identification, quantification and confirmation of pesticide residues  Acetamiprid Aldicarb Aldicarb sulfone ( $\geq 1 \text{ mgkg}^{-1}$ in liver) Aldicarb sulfoxide ( $\geq 1 \text{ mgkg}^{-1}$ in liver) Atrazine Azoxystrobin Bendiocarb Benfuracarb Bitertanol Boscalid Bromuconazole Bupirimate Carbaryl Carbendazim Carbofuran 3-Hydroxy Carbofuran Carbosulfan ( $\geq 1 \text{ mgkg}^{-1}$ in liver) Chlorotoluron Clofentezine Clothianadin Cyazofamid Cymoxanil Cyproconazole Cyprodinil Demeton-S-methyl ( $\geq 1 \text{ mgkg}^{-1}$ in liver) Demeton-S-methyl sulfone Diethofencarb Difenconazole Diflubenzuron Dimethoate Dimethomorph Dimoxystrobin Disulfoton Disulfoton sulfoxide Diuron	Documented In-House Methods CHEM-017 using LC-MS/MS	Rodd



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Wildlife - animal tissue, digestive tract content and liver (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Identification, quantification and confirmation of pesticide residues (cont'd)</p> <p>Epoxiconazole Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Famoxadone Fenamidone Fenamiphos Fenamiphos sulphone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenhexamid Fenoxycarb Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fludioxonil Flufenacet Flufenoxuron (<math>\geq 1 \text{ mgkg}^{-1}</math> in liver) Fluopicolide Fluoxastrobin Fluquinconazole Flusilazole Flutriafol Furathiocarb Hexaconazole Hexythiazox Imazalil Imidacloprid Indoxacarb Iprovalicarb Isofenphos Isoproturon Kresoxim-methyl Linuron Lufenuron</p>	CHEM-017 using LC-MS/MS	Rodd



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Wildlife - animal tissue, digestive tract content and liver (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Identification, quantification and confirmation of pesticide residues (cont'd)</p> <p>Malathion Malaoxon Mepanipyrim Metconazole Methiocarb Methomyl Methoxyfenozide Metolcarb Metrafenone Monocrotophos Myclobutanil Ofurace Omethoate (<math>\geq 1 \text{ mgkg}^{-1}</math> in liver) Oxamyl (<math>\geq 1 \text{ mgkg}^{-1}</math> in liver) Oxydemeton methyl Penconazole Pencycuron Phorate Phorate sulfone Picoxystrobin Pirmicarb Prochloraz Propiconazole Pymetrozine Pyraclostrobin Pyrethrins Pyridaben (<math>\geq 1 \text{ mgkg}^{-1}</math> in liver) Pyrifenox Pyrimethanil Pyriproxyfen Quassia Quinoxifen Rotenone Simazine Spiromesifen Spiroxamine Tebuconazole Tebufenozide</p>	CHEM-017 using LC-MS/MS	Rodd



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Wildlife - animal tissue, digestive tract content and liver (cont'd)	<u>Chemical Tests (cont'd)</u> Identification, quantification and confirmation of pesticide residues (cont'd)	CHEM-017 using LC-MS/MS	Rodd
	Tebufenpyrad Terbufos Terbufos sulfone Terbufos sulfoxide Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Triazamate Trichlorfon Trifloxystrobin Triticonazole	CHEM-017 using GC MS/MS	Rodd
	Aldrin Carbophenothion Chlorfenvinphos 1 Chlorfenvinphos 2 Chlorpyrifos DDE-PP Diazinon Dichlorvos Dieldrin Endrin Famphur Fenitrothion Fonophos Gamma-HCH Mevinphos Permethrin 1 Permethrin 2 Phosmet Pirimiphos-methyl Propetamphos Triazophos	CHEM-080 using LC MS/MS	Rodd



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Vertebrate Liver Tissue	<u>Chemical Tests (cont'd)</u> Identification, and quantitative analysis of anticoagulant rodenticides :  Brodifacoum Bromadiolone Coumatetralyl Difenacoum Difethialone Flocoumafen Warfarin	CHEM-064 using LC-MS/MS	Rodd
FOODS and FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods	
Fruit and Vegetables	Detection, quantification and confirmation of pesticide residues, using flexible scope method CHEM-075, using GC-MS/MS and LC-MS/MS, for analytes not covered by the specific methodology given in the scope of accreditation below	Methods developed and validated following the Flexible Scope Protocol CHEM-075: CHEM-054 using LCMS/MS, CHEM-014 using GCMS and/or GCMS/MS, CHEM-083, CHEM-084 and CHEM-085 using LC-MS/MS	Rodd
	Dithiocarbamate Pesticides as CS <sub>2</sub>	CHEM-011 by digestion and GCMS	Rodd
Fruit and Vegetables High water content High acid content	Identification, quantification and confirmation of pesticide residues:  Chlormequat Mepiquat	CHEM-084 using LCMSMS	Rodd
Fruit and Vegetables High water content High acid content	Identification, quantification and confirmation of pesticide residues:  Dithianon	CHEM-083 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues:  2 phenylphenol 2,4,6 trichlorophenol Acrinathrin Aldrin Benalaxyl Bifenthrin Biphenyl Bromopropylate Buprofezin Cadusafos Captan Chlorfenapyr Chlorfenvinphos Chlorobenzilate Chlorothalonil Chlorpropham Chlordane – cis Chlordane - trans Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Chlozolate Cyfluthrin Cypermethrin DDD-p,p DDE-p,p DDT-o,p DDT-p,p Deltamethrin Diazinon Dichlofluanid Dichlorvos Dicloran Dicofol Dicrotophos Dieldrin Dinocap Diphenylamine Endosulphan-alpha	Documented In-House Methods  CHEM-014 using GC-MS and GC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Endosulphan-beta Endosulphan sulfate Endrin EPN Ethion Ethofumesate Ethoprophos Etrimfos Fenitrothion Fenpropathrin Fenvalerate Flucythrinate Fluvalinate (tau) Folpet Fonophos Formothion Fosthiazate Furalaxyl HCH – alpha HCH – beta HCH-gamma Heptachlor Heptachlor epoxide-cis Heptachlor epoxide-trans Heptenophos Hexachlorobenzene Iprodione Isazophos Isocarbufos Isofenphos Isofenphos-methyl Lambda-cyhalothrin Mecarbam Meptyldinocap Metalaxyl Methacrifos Methidathion Methoxychlor	Documented In-House Methods  CHEM-014 using GC-MS and GC-MS/MS	Rodd





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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Mevinphos Nitrothal-isopropyl Oxadixyl Oxyfluorfen Paclobutrazol Parathion Parathion-methyl Pendimethalin Pentachloroaniline Permethrin Phorate Phosalone Phosmet Phosphamidon Pirimiphos-ethyl Pirimiphos-methyl Procymidone Profenophos Propargite Propetamphos Propham Propoxur Propyzamide Prothiofos Pyrazophos Pyridaphenthion Quinalphos Quintozene Tecnazene Tefluthrin Tetrachlorvinphos Tetramethrin Tetradifon Tolclofos methyl Tolyfluanid Triadimefon Triadimenol Triazophos Trifluralin Vinclozolin	Documented In-House Methods  CHEM-014 using GC-MS and GC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  2, 4-D Abamectin Acephate Acetamiprid Acetochlor Aldicarb Aldicarb sulfoxide Aldicarb sulfone Atrazine Azinphos-ethyl Azoxystrobin Bendiocarb Benfuracarb Bentiavalicarb Bitertanol Boscalid Bromuconazole Bromoxynil Bupirimate Butocarboxim Butocarboxim sulfoxide Carbaryl Carbofuran Carbofuran (3-hydroxy) Carbosulfan Clofentezine Chlorfenapyr Chlorantraniliprole Chlorotoluron Clethodim Clothianidin Cyazofamid Cymoxanil Cyproconazole Cyprodinil Cyromazine Demeton-S-methyl sulfone Demeton-S-methyl sulfoxide (oxydemeton methyl)	Documented In-House Methods  CHEM-054 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Diclobutrazol Diethofencarb Difenoconazole Diflubenzuron Dimethoate Dimethomorph Dimoxystrobin Diniconazole Disulfoton Disulfoton sulfone Disulfoton sulfoxide Diuron DMPF DMF DMSA DMST Epoxiconazole Ethiofencarb sulfone Ethiofencarb sulfoxide Ethirimol Ethiofencarb sulfone Ethiofencarb sulfoxide Ethirimol Famoxadone Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenbutatin oxide Fenhexamid Fenoxycarb Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fipronil	Documented In-House Methods  CHEM-054 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Fipronil sulfone Flonicamid Fluazifop Fluazifop P butyl Fluazinam Flubendiamide Fludioxonil Flufenacet Flufenoxuron Fluopicolide Fluopyram Fluometuron Flusilazole Flutolanil Flutriafol Fluxapyroxad Furathiocarb Haloxyfop Haloxyfop R methyl Hexaconazole Hexaflumuron Hexythiazox Imazalil Imidacloprid Indoxacarb Ioxynil Iprovalicarb Isoprocarb Isoprothiolane Isoproturon Kresoxim-methyl Lenacil Linuron Lufenuron Malaixon Malathion Mandipropamid Mepanipyrim Metaflumizone Methiocarb	Documented In-House Methods  CHEM-054 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Methiocarb sulfone Methiocarb sulfoxide Methomyl Methoxyfenozide Metobromuron Metolachlor Metolcarb Metrafenone Metribuzin Monocrotophos Myclobutanil Nitenpyram Ofurace Omethoate Oxamyl Paraoxon methyl Penconazole Pencycuron Phorate Phorate Sulfoxide Phorate sulfone Phoxim Picoxystrobin Piperonyl butoxide Pirimicarb Pirimicarb desmethyl Propaquizafop Prochloraz Propiconazole Prothioconazole-desthio Pymetrozine Pyraclostrobin Pyridaben Pyrethrins Pyridaben Pyrifenox Pyrimethanil Pyriproxyfen Quassia Quinoxifen	Documented In-House Methods  CHEM-054 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Rotenone Simazine Spinosad Spirodiclofen Spiromesifen Spiroxamine Tebuconazole Tebufenozide Tebufenpyrad Teflubenzuron Terbufos Terbufos sulfoxide Terbutylazine Tetraconazole Thiabendazole Thiacloprid Thiodicarb Trichlorfon Triclopyr Trifloxystrobin Triflumuron Triforine Triticonazole Zoxamide	Documented In-House Methods  CHEM-054 using LC-MS/MS	Rodd
Fruit and Vegetables High water content High acid content	Identification, quantification and confirmation of pesticide residues:  2,4-D 2,4-DB 3-Hydroxycarbofuran Abamectin Acephate Acetamiprid Acetochlor Aclonifen Aldicarb Aldicarb sulfone Aldicarb sulfoxide	CHEM-085 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues (cont'd):  Allethrin Ametoctradin Aminocarb Amitraz Atrazine Azinphos-ethyl Azoxystrobin Azinphos-methyl BAC-10 BAC-12 BAC-14 BAC-16 Bendiocarb Bentiavalicarb Bitertanol Boscalid Bromoxynil Bromuconazole Bupirimate Butocarboxim Butocarboxim sulfoxide Butoxycarboxim Carbaryl Carbendazim Carbofuran Carbosulfan Carboxin Chlorantraniliprole Chlorbufam Chlorfenapyr Chlorfluazuron Chloridazon Chlorotoluron Clethodim Clofentezine Clothianidin Clomazone Coumaphos Crufomate	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues (cont'd):  Cyanazine Cyazofamid Cycloxydim Cyflufenamid Cyhalofop-butyl Cymoxanil Cyproconazole Cyprodinil DDAC Demeton-S-methyl sulfone Demeton-S-methyl sulfoxide Desmedipham Diafenthiuron Diclobutrazol Diethofencarb Difenoconazole Diflubenzuron Diflufenican Dimethoate Dimethomorph Dimoxystrobin Diniconazole Disulfoton Disulfoton sulfone Disulfoton sulfoxide Diuron DMF DMPF DMSA DMST Dodine Emamectin benzoate Epoxiconazole Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Ethirimol Etofenprox Etoxazole Famoxadone	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd





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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues (cont'd):  Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenbutatin oxide Fenhexamid Fenoxycarb Fenpropidin Fenpropimorph Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxide Fipronil Fipronil sulfone Flonicamid Fluazinam Flubendiamide Fludioxonil Flufenacet Flufenoxuron Fluometuron Fluopicolide Fluopyram Fluoxastrobin Fluquinconazole Flusilazole Flutolanil Fluxapyroxad Furathiocarb Fluazifop Fluazifop-P-butyl Formetanate hydrochloride Furathiocarb Halofenozide Halosulfuron-methyl	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Metobromuron Metolachlor Metolcarb Metrafenone Metribuzin Molinate Monocrotophos Monolinuron Monuron Myclobutanil Napropamide Nitenpyram Nuarimol Oxadiargyl Oxadiazon Oxamyl Oxasulfuron Ofurace Omethoate Paraoxon-methyl Penconazole Pencycuron Penthiopyrad Phenmedipham Phorate Phorate sulfone Phorate sulfoxide Phosmet Phoxim Picolinafen Picoxystrobin Piperonyl butoxide Pirimicarb Pirimicarb desmethyl Prochloraz Promecarb Prometryn Propamocarb Propaquizafop	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High water content High acid content (cont'd)	<u>Chemical Tests</u> (cont'd)  Identification, quantification and confirmation of pesticide residues: (cont'd)  Propiconazole Proquinazid Prosulfocarb Prothioconazole desthio Pyraclostrobin Pyrethrins (jasmolin I, jasmolin II, pyrethrin I, pyrethrin II, cinerin I, cinerin II),) Pyridaben Pyrifenox Pyrimethanil Pyriproxyfen Quassia (neoquassin, quassin) Quinoclamine Quinoxifen Quizalofop Quizalofop-P-ethyl Rotenone Simazine Spinosad (spinosyn A, spinosyn D) Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Tebufenpyrad Tebuthiuron Teflubenzuron Terbufos Terbufos sulfone Terbufos sulfoxide Terbumeton Terbuthylazine Terbutryn Tetraconazole TFNA Thiabendazole	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd



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FOODS and FOOD PRODUCTS (cont'd)  Fruit and Vegetables High acid content High acid content (cont'd)	<u>Chemical Tests (cont'd)</u>  Identification, quantification and confirmation of pesticide residues: (cont'd)  Thiacloprid Thiamethoxam Thiodicarb Thiophanate-methyl Tolfenpyrad Tri-allate Triasulfuron Triazamate acid Triazamate ester Trichlorfon Triclopyr Tricyclazole Trifloxystrobin Triflumuron Triforine Triticonazole Tritosulfuron Zoxamide	Documented In-House Methods  CHEM-085 using LC-MS/MS	Rodd
SOLVENT EXTRACTS POTENTIALLY CONTAINING PESTICIDE RESIDUES	Confirmation of pesticide identity and concentration	Standard Operating Procedure CHEM-010 using GC-MS, GC-MS/MS and LC-MS techniques	Rodd
PLANTS and PLANT MATERIALS  Seeds	<u>Physical Tests</u>  Analytical Purity  Determination of other seeds  Moisture content  Thousand seed weight	Methods carried out according to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified by method number OSTs -  ISTA Rules Chapters 3 & 11  ISTA Rules Chapters 4 & 11  ISTA Rules Chapter 9  ISTA Rules Chapter 10	Rodd  Rodd  Rodd  Rodd



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PLANTS and PLANT MATERIALS (cont'd)	<u>Performance Tests</u>	Methods carried out According to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified By method number OSTs -	
	Electroconductivity (excluding petit pois varieties)	OSTS-15.2 based on the ISTA Rules Chapter Chapter 15, 15.8.1	Rodd
	Germination	ISTA Rules Chapters 5 & 11	Rodd
	<u>Biochemical Tests</u>	Methods carried out according to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified By method number OSTs -	
	Tetrazolium viability Tetrazolium vigour tests	ISTA Rules Chapter 6 OSTS-15.1	Rodd
Seeds	<u>Microbiological Tests</u>	Methods carried out according to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified by method number OSTs -	
	Agar plate disease tests covering <i>Ascochyta spp</i> <i>Ascochyta fabae</i> <i>Drechslera sorokiniana</i> <i>Drechslera graminea</i> <i>Drechslera teres</i> <i>Drechslera avenae</i> <i>Leptosphaeria nodorum</i> <i>Microdochium spp</i> ( <i>M. nivale</i> & <i>M. majus</i> )	OSTS-7.3	Rodd
	Disease test - loose smut ( <i>Ustilago nuda</i> )	ISTA Rules, Chapter 7, Method 7-013a OSTs-7 2.1	Rodd



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PLANT and PLANT MATERIALS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Methods carried out according to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified by method number OSTs -	
Potato	Detection of viruses, phytoplasmas or <i>Candidatus Liberibacter solanacearum</i>	Methods developed and validated following the Flexible Scope protocol PH030, meeting the requirements of EPPO PM 7/98 (2): <i>Specific requirements for laboratories preparing accreditation for a plant pest diagnostic activity</i>	Rodd
Seeds	<u>Molecular Tests</u>  Real-time PCR test - <i>Microdochium</i> spp ( <i>M. nivale</i> & <i>M. majus</i> )	Documented In-House Methods  Methods carried out according to International Seed Testing Association (ISTA) Rules or Documented In-House Methods Identified by method number OSTs - OSTs 7.5.2, 7.5.2.2 and 7.5.3	Rodd
Potato	Beet curly top virus	Plant Health SOP PH011 using molecular techniques as described below  Using conventional one-step PCR – Simple reaction and multiplex with COX	Rodd
	Begomovirus	Using Conventional one-step PCR with multiplex reaction with COX	Rodd
	Carlavirus	Using Conventional one-step using RT-PCR and multiplex with nad5	Rodd



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PLANT and PLANT MATERIALS (cont'd)	<u>Molecular Tests</u> (cont'd)	Plant Health SOP PH011 using molecular techniques as described below	Rodd
	Potato yellow vein virus	Using real time one-step RT-PCR- Simplex reaction and multiplex with nad5	Rodd
	Potato yellowing virus	Using Conventional one-step RT-PCR and multiplex with nad5	Rodd
	Potexvirus	Using Conventional one-step RT-PCR and multiplex with nad5	Rodd
	Potyvirus	Using Conventional one-step PCR- Simplex reaction and multiplex with nad5	Rodd
	Tobacco rattle virus	Using real time one-step RT-PCR and multiplex reaction with nad5	Rodd
	Tomato chlorosis virus	Using real time one-step RT-PCR and multiplex reaction with nad5	Rodd
	Tomato infectious chlorosis virus	Using real time one-step RT-PCR and multiplex reaction with nad5	Rodd





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PLANTS and PLANT MATERIALS (cont'd)	<u>Virological Tests used by the United Kingdom Potato Quarantine Unit (UKPQU)</u>		
Potato	Detection using ELISA and bioassay of: Potato leafroll virus* Potato mop-top virus Potato virus A Potato virus M Potato virus S Potato virus V Potato virus X Potato virus Y Tomato black ring virus Andean potato latent virus Andean potato mottle virus Arracacha virus B- oca strain Potato blackring spot virus Potato latent virus Potato virus P Potato virus T Potato yellowing virus* Tomato spotted wilt virus	Plant Health SOPs PH-008, PH-009 & PH-010 and EPPO Standard PM 3/21 by ELISA and Bioassay to meet the requirements of Regulation 2008/61/EC and New Zealand MAF import health standard 155.02.06 for Solanum tuberosum Note '*' denotes virus tests are excluded from the list for Bioassay	Rodd
	Potato spindle tuber viroid (PSTVd)	Plant Health SOPs PH-005 & PH-008 and EPPO Standard PM 7/33 using a Digoxigenin RNA probe	Pentlands
	<u>Genetically Modified Species</u>		
Maize and Oilseed rape	Qualitative detection of: CMV, t-nos, bar, P35/pat, Cpt2/cp4-EPSPS	DNA extraction (GMO-005) and qualitative detection with RT-PCR (GMO-013)	Rodd
Maize	Quantitative detection of: MON88017	DNA extraction (GMO-005) and quantitative detection with real time PCR (GMO-007)	Rodd



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PLANTS and PLANT MATERIALS (cont'd)  Oilseed rape	<u>Genetically Modified Species (cont'd)</u>  GMO Event GT73	DNA extraction (GMO-005) and quantitative detection with real time PCR (GMO-007)	Rodd
PLANTS and PLANT MATERIALS (cont'd)  Potato and leaf material	<u>Virological Tests used by Virology Section</u>  Detection using real-time PCR (Molecular) tests for: Potato Leaf Roll Virus Potato Mop top Virus Potato virus A Potato virus V Potato virus X Potato virus Y Tobacco rattle Virus	VIR SOP-028, EPPO Standard PM 7/98 by real-time PCR and UNECE Standard S-1 (2006) Annex IX Sampling for virus testing by RT-PCR	Rodd
Leaf material	Detection using Serological DAS-ELISA tests for: Potato Leaf Roll Virus Potato Mop top Virus Potato virus A Potato virus M Potato virus S Potato virus V Potato virus X Potato virus Y-O/C Potato virus Y-N Tomato black ring virus	VIR SOP-0032 and VIR-033 and EPPO Standard PM 7/98 by ELISA	Rodd



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<p><b>BODY FLUIDS and TISSUES</b></p> <p>Blood</p> <ul style="list-style-type: none"> <li>- Whole</li> <li>- Swabs</li> </ul> <p>Saliva</p> <ul style="list-style-type: none"> <li>- Swabs</li> </ul> <p>Hair</p> <p>Feather</p> <p>Cellular Material</p> <p>Body Tissue</p> <ul style="list-style-type: none"> <li>- Skin</li> <li>- Nail</li> <li>- Muscle</li> <li>- Bone</li> <li>- Horn</li> </ul> <p><b>PLANT TISSUES</b> (potato tubers, stem and microplants, and egg plant stem tissue)</p>	<p><u>Forensic Analysis</u></p> <p>Species identification by DNA Sequencing:</p> <ul style="list-style-type: none"> <li>- Crime Scene Samples</li> </ul> <p><u>Microbiological Tests</u></p> <p>Detection of <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (potato ring rot)</p>	<p>Documented In-House Methods using manual/automated extraction</p> <ul style="list-style-type: none"> <li>- Qiagen (Qiacube)</li> </ul> <p>Documented In-House Methods using Manual amplification (PCR)</p> <p>Documented In-House Methods using Electrophoresis</p> <ul style="list-style-type: none"> <li>- Applied Biosystems 3130/3130xl Genetic Analyser©</li> </ul> <p>Applied Biosystems 3500 Genetic Analyser©</p> <p>Documented in-house SOP DWMBBACT-014 using immunofluorescence technique in conjunction with extraction procedure SOP DWMBBACT-012 or PH-013 in accordance with Commission Directive 2006/56/EC amending annexes to council directive 93/85/EEC</p>	<p>Rodd</p> <p>Rodd</p>



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PLANT TISSUES (potato tubers, stem and microplants, and egg plant stem tissue) (cont'd)	<u>Microbiological Tests</u> (cont'd)  Detection of presumptive <i>Ralstonia solanacearum</i> (potato brown rot)	Documented in-house SOP DWMBBACT-013 by isolation on SMSA in conjunction with extraction procedure SOP DWMBBACT-012 or PH-013 in accordance with Commission Directive 2006/63/EC amending annexes II and VII to council directive 98/57/EC	Rodd
END			