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Pesticide Residue Free Certification Standard

Version 3-1, May 2018

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1. Introduction

The Pesticide Residue Free Certification Program (the "Program") has been established to:

- Reduce consumers' risk of exposure to pesticide residues in foods they consume;
- Enable producers to demonstrate compliance with Maximum Residue Limits (MRLs) worldwide;
- Enable producers to demonstrate compliance with food processor and manufacturer residue purity requirements;
- Enable producers to demonstrate compliance with organic certification requirements;
- Enable producers to demonstrate compliance with testing requirements of GlobalG.A.P., Tesco Nature's Choice, SQF, and other food safety programs;
- Educate producers about the pesticide residue profile of their products;
- Provide recognition to producers who have fine-tuned their production strategies to minimize or eliminate reliance on chemical pesticides; and
- Increase confidence among handlers and purchasers in the value chain about the residue profiles of purchased products to help them meet their food residue purity goals.

The Pesticide Residue Free Certification Standard (the "Standard") is the basis for certification under the Pesticide Residue Free Certification Program (the "Program").

2. Purpose of the Standard

The Standard:

- Describes the certification framework and the auditing and testing requirements applicable to agricultural products certified as Pesticide Residue Free ("Certified Products"); and
- Provides guidance for public claims made in connection with Certified Products, either on or off product.

3. Intended Users of the Standard

The Standard is intended to be used by agricultural producers interested in having products certified under the Program, as well as value chain handlers and purchasers of Certified Products. Handlers including distributors, wholesalers, importers, and food processors and manufacturers. Purchasers of Certified Products include grocers, restaurants, food service and institutional buyers.

4. Voluntary Standard

This Standard is voluntary and nonbinding. It is not intended to replace the legal or regulatory requirements of any country in which agricultural products are produced, handled, or sold. Producers applying for the Program are not ultimately required to produce a pesticide-residue-free product or

required to utilize SCS' certification mark on Certified Product. Participants in the Program may choose to withdraw or terminate their participation at any time.

5. Scope

This Standard applies to agricultural plant crops submitted for assessment to determine whether they can be certified as Pesticide Residue Free, as well as to food products made with Certified Product ingredients. In addition, the Standard includes traceability requirements designed to ensure that Certified Products are properly handled throughout the chain-of-custody, and that they can be traced back to their source.

6. Program Applicant Submissions

As a prerequisite for assessment, producers are required to submit a Program Application Form and supporting documents prior to the collection or analysis of any product samples. Additionally, producers are required to maintain a documented food safety program, preferably at GFSI level or equivalent. Required supporting documents may include, but are not necessarily limited to the following:

- SCS Assessment Services Agreement
- Exhibit A: Production Disclosure
- Exhibit B: Post Harvest Disclosures
- Exhibit C: Chain of Custody Memorandum of Understanding
- Field maps

7. Conformance Requirements for Certified Products

In order for an agricultural product to be certified:

- A representative sample of an identified Production Lot must be collected for analysis in accordance with Program sampling requirements (Appendix 1).
- The sample must be laboratory tested by a qualified laboratory in accordance with the Program testing requirements (Appendix 1).
- Test results must show that the product contains no detected pesticide residues down to government-recognized limits of detection (LOD) – usually 0.01 parts per million (ppm) unless otherwise noted (Appendix 2) – at the time of distribution for sale.

Lot codes of Certified Products, and type(s) of products included, are clearly stated on the Certificate issued upon certification. SCS is not responsible for, or supportive of, claims made by the client pertaining to Production Lots or Products that are not listed on the Certificate.

8. Duration of Certification

Once a Production Lot has been successfully certified, the Certification shall remain in effect for the entire shelf-life of the product, until one of the following conditions applies:

- The entire supply of Certified Product from that Production Lot has been sold or otherwise depleted.
- A pesticide has been applied to the product at any stage in the chain-of-custody that was not included in the testing upon which certification was granted;
- Cross-contamination of the product has occurred at any stage in the chain-of-custody;
- The Certification has been suspended or revoked in accordance with Provision 7.

As a quality control measure, Certified Products from any Production Lot may be retested at any time, at the Producer's expense, to verify Certified status. In such cases, sampling may occur at the Producer's location or at any point in the chain-of-custody, following the issuance of a Certificate of Conformance.

9. Revocation or Suspension.

A certification will be suspended or revoked if any of the following conditions exist:

- Pesticide residues are found at any point during or following the certification process to exceed the requirements for certification, until such time that conformance is reestablished;
- A Production or Post-Harvest Disclosure is found to be incomplete;
- A producer is unwilling or unable to correct observed discrepancies;
- A producer is unwilling or unable to meet financial or contractual arrangements;
- A producer is intentionally misusing the SCS Kingfisher certification mark; or
- A producer is intentionally violating any program requirements.

10. Product Integrity and Traceability

The producer of a Certified Product is required to:

- Maintain auditable records pertaining to crop production inputs and product traceability;
- Demonstrate traceability of all Certified Products back to the field level;
- Demonstrate the ability to recall Pesticide Residue Free certified products if residues are found after certification; and
- Demonstrate the ability to prevent comingling and contamination of Certified Products with non-certified products.

11. Use of Pesticide Residue Free Certification Mark

The producer of a Certified Product is permitted to use the SCS Kingfisher Pesticide Residue Free certification mark in connection with the Certified Product, either directly on product labels, signage, and other point-of-sale materials, or indirectly in websites, brochures, and other printed and online collateral. Requirements governing the use of the certification mark are described in the SCS Labeling and Language Guide. Whether used on or off-product, the certification mark must be accompanied by the following statement: "Based on government limit of detection protocols."

Food processors or manufacturers using Certified Products as an ingredient in their products may qualify to make a Pesticide Residue Free claim and use the SCS Kingfisher Certification mark if they can provide appropriate chain-of-custody documentation to SCS, in conformance with the Chain of Custody Memorandum of Understanding, and comply with the terms of the SCS Labeling and Language Guide.

Similarly, food purchasers offering Certified Products for sale may qualify to make a Pesticide Residue Free claim and use the SCS Kingfisher Certification mark if they can provide appropriate chain-of-custody documentation to SCS, in conformance with the Chain of Custody Memorandum of Understanding, and comply with the terms of the SCS Labeling and Language Guide.

Appendix 1. Summary of Key Program Sampling and Testing Requirements

Following is a summary of key program sampling and testing requirements. Further details are provided in the Program Manual.

Sampling Requirements

- Products are sampled, tested and certified on a Production Lot basis, either in the field, growing facility, or in the post-harvest facility if there is a potential for direct or indirect exposure to a post-harvest pesticide.
- Field-grown crops will be sampled prior to every harvest of each lot/field to establish that crops have been grown without use of pesticides.
- Crops grown in a greenhouse or growing facility will be sampled at regular intervals, in accordance with the Participant's crop production cycles.
- Products are sampled by an authorized SCS representative.

Testing Requirements

- Laboratory tests are conducted by a qualified laboratory operating in accordance with SCS Global Services requirements, as follows:
    - All labs are accredited under CA DHS ELAP and FAPAS, and some are ISO 17025 accredited. Our labs comply with Good Laboratory Practice (GLP) protocols for US EPA-related activities, and all US labs are approved for US FDA import detection analysis for adulteration by microbiology, pesticides, filth, colorants, and artificial sweeteners.
    - SCS utilizes current FDA PAM, USDA QuEChERS, EPA and AOAC methodologies for our pesticide analysis. To ensure accurate and reproducible analysis, our pesticide analysis methodologies are coupled with:
        - Stringent internal Standard Operating Procedures (SOPs)
        - Chain-of-custody protocols for all samples from sample collection to analysis
        - High quality, high purity analytical standards
        - High quality equipment such as chromatographs (GC), high performance liquid CCMSCS chromatographs (HPLC), LCMSMS and mass spectrometers (MS)
        - Dual column/dual detection for all GCO LC analysis for instant contamination
- Tests conducted account for any applied pesticides described in disclosure documents, as well as pesticides that may be present as a result of prior use, accidental contamination from drift, or environmental background levels.

Appendix 2. Laboratory Limits of Detection

The following laboratory Limits of Detection (LOD) apply for the **USDA-NOP Screen**:
Method: QuEChERs, AOAC 2007.01

Active Ingredient	LOD (PPM)	Active Ingredient	LOD (PPM)
1-Naphthol	0.01	Cyfluthrin	0.01
3-Hydroxycarbofuran	0.01	Cyhalothrin	0.01
5-Hydroxythiabendazole	0.01	Cypermethrin	0.01
Acephate	0.01	Cymoxanil	0.01
Acetamiprid	0.01	Cyprodinil	0.01
Acetochlor	0.01	DCPA	0.01
Aldicarb	0.01	DDD o,p'	0.01
Aldicarb sulfone	0.01	DDD p,p'	0.01
Aldicarb sulfoxide	0.01	DDE o,p'	0.01
Allethrin	0.01	DDE p,p'	0.01
Atrazine	0.01	DDT o,p'	0.01
Azinphos methyl	0.01	DDT p,p'	0.01
Azoxystrobin	0.01	DEF (Tribufos)	0.01
Bendiocarb	0.01	Deltamethrin	0.01
BHC alpha	0.01	Diazinon	0.01
Bifenazate	0.01	Diazinon oxygen analog	0.01
Bifenthrin	0.01	Dichlorvos (DDVP)	0.01
Bitertanol	0.01	Dicloran	0.01
Boscalid	0.01	Dicofol o,p'	0.01
Bromacil	0.01	Dicofol p,p'	0.01
Buprofezin	0.01	Dieldrin	0.01
Captan	0.01	Difenoconazole	0.01
Carbaryl	0.01	Diflubenzuron	0.01
Carbendazim (MBC)	0.01	Dimethoate	0.01
Carbofuran	0.01	Dimethomorph	0.01
Carboxin	0.01	Dinotefuran	0.01
Chlorantraniprole	0.01	Diphenamid	0.01
Chlordane cis	0.01	Diphenylamine (DPA)	0.01
Chlordane trans	0.01	Disulfoton	0.01
Chlorfenapyr	0.01	Disulfoton sulfone	0.01
Chlorpropham	0.01	Diuron	0.01
Chlorpyrifos	0.01	Endosulfan I	0.01
Chlorpyrifos methyl	0.01	Endosulfan II	0.01
Clofentezine	0.01	Endosulfan sulfate	0.01
Clothianidin	0.01	Endrin	0.01
Coumaphos	0.01	Esfenvalerate	0.01
Cyazofamid	0.01	Ethephon	0.01
Cycloate	0.01	Ethion	0.01

The following laboratory Limits of Detection (LOD) apply for the **USDA-NOP Screen**:

Method: QuEChERs, AOAC 2007.01

Active Ingredient	LOD (PPM)	Active Ingredient	LOD (PPM)
Ethoprop	0.01	Metalaxyl	0.01
Ethoxyquin	0.01	Methamidophos	0.01
Etoxazole	0.01	Methidathion	0.01
Famoxadone	0.01	Methiocarb	0.01
Fenamidone	0.01	Methomyl	0.01
Fenamiphos	0.01	Methoxychlor Total	0.01
Fenamiphos sulfone	0.01	Methoxyfenozide	0.01
Fenamiphos sulfoxide	0.01	Metolachlor	0.01
Fenarimol	0.01	Metribuzin	0.01
Fenbuconazole	0.01	Mevinphos Total	0.01
Fenhexamid	0.01	MGK-264	0.01
Fenpropathrin	0.01	Myclobutanil	0.01
Fenpyroximate	0.01	Naled	0.01
Fenthion	0.01	Napropamide	0.01
Fipronil	0.01	Nonachlor cis	0.01
Flonicamid	0.01	Nonachlor trans	0.01
Fludioxonil	0.01	Norflurazon	0.01
Fluoxastrobin	0.01	Norflurazon desmethyl	0.01
Fluridone	0.01	Omethoate	0.01
Flutolanil	0.01	O-Phenylphenol	0.01
Fluvalinate	0.01	Oxadixyl	0.01
Folpet	0.01	Oxamyl	0.01
Fonofos	0.01	Oxamyl oxime	0.01
Formetanate hydrochloride	0.01	Oxydemeton methyl sulfone	0.01
Heptachlor epoxide	0.01	Parathion methyl	0.01
Hexachlorobenzene (HCB)	0.01	Pendimethalin	0.01
Hexaconazole	0.01	Pentachloroaniline (PCA)	0.01
Hexythiazox	0.01	Pentachlorobenzene (PCB)	0.01
Hydroprene	0.01	Pentachlorophenyl methyl sulfide	0.01
Imazalil	0.01	Permethrin Total	0.01
Imidacloprid	0.01	Phenmedipham	0.01
Indoxacarb	0.01	Phorate sulfone	0.01
Iprodione	0.01	Phorate sulfoxide	0.01
Iprodione metabolite isomer	0.01	Phosalone	0.01
Lindane (BHC gamma)	0.01	Phosmet	0.01
Linuron	0.01	Piperonyl butoxide	0.01
Malathion	0.01	Pirimicarb	0.01
Mefenoxam	0.01	Pirimiphos methyl	0.01

The following laboratory Limits of Detection (LOD) apply for the **USDA-NOP Screen**:
Method: QuEChERs, AOAC 2007.01

Active Ingredient	LOD (PPM)	Active Ingredient	LOD (PPM)
Prallethrin	0.01	Triflumizole	0.01
Prochloraz	0.01	Trifluralin	0.01
Procymidone	0.01	Vinclozolin	0.01
Profenofos	0.01		
Prometryn	0.01		
Pronamide	0.01		
Propamocarb	0.01		
Propargite	0.01		
Propiconazole	0.01		
Pymetrozine	0.01		
Pyraclostrobin	0.01		
Pyrethrins	0.01		
Pyridaben	0.01		
Pyrimethanil	0.01		
Pyriproxyfen	0.01		
Quinoxyfen	0.01		
Quintozene (PCNB)	0.01		
Resmethrin	0.01		
Simazine	0.01		
Spinetoram	0.01		
Spinosad	0.01		
Spiromesifen	0.01		
Spirotetramat	0.01		
Sulfentrazone	0.01		
Tebuconazole	0.01		
Tebufenozide	0.01		
Tetrachlorvinphos	0.01		
Tetradifon	0.01		
Tetrahydrophthalimide (THPI)	0.01		
Thiabendazole	0.01		
Thiacloprid	0.01		
Thiamethoxam	0.01		
Thiobencarb	0.01		
Thiodicarb	0.01		
Triadimefon	0.01		
Triadimenol	0.01		
Triazophos	0.01		
Trifloxystrobin	0.01		

The following laboratory Limits of Detection (LOD) apply for the **FDA Multi-Residue Analysis (MRA)**:
Method: FDA PAM Vol. 1

ORGANOPHOSPHATE SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
acephate	0.01	dichlofenthion	0.01
azinphos ethyl	0.01	dichlorvos	0.01
azinphos methyl	0.01	dicrotophos	0.01
azinphos methyl O analog*	0.01-0.05	dimethoate	0.01
bensulide	0.01	dioxathion	0.01
bolstar	0.01	disulfoton	0.01
bolstar sulfone*	0.01-0.05	disulfoton O analog*	0.01-0.05
bolstar sulfoxide*	0.01-0.05	disulfoton sulfone*	0.01
bromophos	0.01	ditalimfos	0.01
bromophos ethyl	0.01-0.05	edifenphos	0.01
cadusafos	0.01	EPN	0.01
carbophenothion	0.01	ethion	0.01
carbophenothion methyl*	0.01-0.05	ethoprop	0.01
carbophenothion O analog*	0.01-0.05	etrimphos	0.01
carbophenothion sulfone*	0.01-0.05	famphur	0.01
carbophenothion sulfoxide*	0.01-0.05	fenamiphos	0.01
chlorfenvinphos	0.01	fenitrothion	0.01
chlorpyrifos	0.01	fensulfothion	0.01
chlorpyrifos methyl	0.01	fenthion	0.01
chlorthiophos	0.01-0.05	fonofos	0.01
coumaphos	0.01	formothion	0.01-0.05
coumaphos oxygen analog	0.01-0.05	heptenophos	0.01
crotoxyphos	0.01	hostathion	0.01
cyanophos	0.01	iprobenphos	0.01-0.05
DEF	0.01-0.05	isazophos	0.01
demeton	0.01-0.05	isofenphos	0.01
demeton-methyl	0.01-0.05	leptophos	0.01
demeton-o	0.01	leptophos oxygen analog*	0.01-0.05
demeton-o-methyl	0.01-0.05	leptophos photo product*	0.01-0.05
demeton-o-sulfone*	0.01-0.05	malathion	0.01
demeton-o-sulfoxide*	0.01-0.05	malathion O analog*	0.01-0.05
demeton-s	0.01	mecarbam	0.01
demeton-s-methyl	0.01-0.05	mephosfolan	0.01-0.05
demeton-s-sulfone*	0.01-0.05	merphos	0.01
demeton-s-sulfoxide*	0.01-0.05	metasystox-S	0.01-0.05
dialifos	0.01	methacrifos	0.01-0.05
diazinon	0.01	methamidophos	0.01
diazinon O analog*	0.01-0.05	methidathion	0.01

The following laboratory Limits of Detection (LOD) apply for the **FDA Multi-Residue Analysis (MRA)**:
Method: FDA PAM Vol. 1

ORGANOPHOSPHATE SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
methyl parathion	0.01	pirimiphos ethyl O analog	0.01-0.05
mevinphos	0.01	pirimiphos methyl	0.01
monocrotophos	0.01	Profenofos	0.01
naled	0.01	propargite	0.05-0.2
omethoate	0.01	propetamphos	0.01
oxydemeton methyl	0.04	prothoate	0.01
oxydemetonmethyl sulfone*	0.01-0.05	pyrazophos	0.01
paraoxon	0.01-0.05	quinalphos	0.01
parathion	0.01	ronnel	0.01
phenthoate	0.01	sulfotep	0.01-0.05
phorate	0.01	TEPP	0.01-0.05
phorate oxygen analog*	0.01-0.05	terbufos	0.01
phorate sulfone*	0.01-0.05	tetrachlorvinphos	0.01
phorate sulfoxide*	0.01-0.05	thiometon	0.01
phosalone	0.01	thionazin	0.01
phosalone O analog*	0.01-0.05	toclofos methyl	0.01
phosmet	0.01	tokuthion	0.01
phosmet oxygen analog*	0.01-0.05	triazophos	0.01
phosphamidon	0.01	trichlorfon[&]	0.01
phoxim	0.01-0.05	trichloronate	0.01
phoxim oxygen analog*	0.01-0.05	triphenyl phosphate	0.01-0.05
piperophos	0.01-0.05	tris-b-chloroethylphosphate	0.01-0.05
pirimiphos ethyl	0.01	zinophos	0.01

ORGANONITROGEN SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
ametryn	0.01	bufencarb	0.01-0.08
amitraz	0.03-0.08	bupirimate[&]	0.3-0.5
anilazine	0.01-0.05	buprofenvin	0.03-0.08
atraton	0.01	buprofenzin	0.03-0.08
atrazine	0.01	butachlor	0.03-0.08
azoxystrobin[&]	0.01-0.05	butralin	0.03-0.08
benoxaco	0.01-0.05	butylate	0.01
Benthiocarb	0.03-0.08	carbetamide	0.03-0.08
bitertanol	0.03-0.08	carboxin	0.03-0.08
bromacil	0.03-0.08	chlordimeform	0.005-0.05

The following laboratory Limits of Detection (LOD) apply for the **FDA Multi-Residue Analysis (MRA)**:
Method: FDA PAM Vol. 1

ORGANONITROGEN SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
chlorfenson	0.03-0.08	phenmedipham	0.1
chlorothalonil	0.01	pirimicarb	0.01-0.05
chlorpropham	0.01	prochloraz	0.02 - 0.05
cyanazine	0.05	procymidone	0.01
cycloate	0.03-0.08	promecarb	0.01-0.05
cyprodinil	0.03-0.08	prometon	0.03-0.08
desmedipham	0.1	prometryn	0.01
diallate	0.01-0.05	propachlor	0.03-0.08
diclobutrazol	0.03-0.08	propamocarb HCl	0.03-0.08
difenconozole	0.01-0.08	propanil	0.01-0.08
dimethachlor	0.03-0.08	propazine	0.01
dimethametryn	0.03-0.08	propham	0.03-0.08
dinocap	0.03-0.08	propiconazole	0.03-0.08
diphenamid	0.03-0.08	Pyraclostrobin	0.03-0.08
diphenylamine	0.01	pyrazon	0.03-0.08
fenarimol	0.03-0.08	pyrimethanil[&]	0.01-0.05
fludioxinil	0.01-0.05	quizalofop ethyl	0.03-0.08
hexazinone	0.03-0.08	secbumeton	0.03-0.08
imazalil	0.01	sethoxydim	0.03-0.08
iprodione	0.05	simazine	0.01
isopropalin	0.03-0.08	simetryn	0.03-0.08
linuron	0.05	tebuconazole	0.03-0.08
metalaxyl	0.03-0.08	tebuthiuron	0.01-0.05
methoprotryne	0.03-0.08	terbumeton	0.03-0.08
metribuzin	0.01	terbuthylazine	0.03-0.08
molinate	0.01	terbutryn	0.03-0.08
monolinuron	0.01	thiabendazole	0.03-0.08
myclobutanil	0.01	thiobencarb	0.005-0.05
napropamide	0.03-0.08	triadimenol	0.03-0.08
norflurazon	0.03-0.08	tricyclazole	0.03-0.08
oxadixyl	0.01-0.05	trifloxystrobin	0.01-0.05
oxythioquinox	0.03-0.08	triflumizole	0.03-0.08
pebulate	0.03-0.08	trifluralin	0.01
penconazole	0.01-0.05	vernolate	0.03-0.08
pendimethalin	0.005-0.05	vinclozolin	0.01

The following laboratory Limits of Detection (LOD) apply for the **FDA Multi-Residue Analysis (MRA)**:
Method: FDA PAM Vol. 1

ORGANOCHLORINE SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
acetochlor	0.005-0.05	dicofol	0.01
alachlor*	0.005-0.05	dieldrin	0.01
aldrin	0.01	diethatyl-ethyl	0.005-0.05
allethrin	0.005-0.05	dyrene	0.01
Anilazine	0.01-0.05	endosulfan I, II	0.01
benefin	0.01	endosulfan sulfate*	0.01
benzoylprop-ethyl	0.005-0.05	endrin	0.01
BHC	0.01	esfenvalerate^	0.01
bifenox	0.005-0.05	etaconazole	0.005-0.05
bifenthrin	0.01	ethylan	0.1
boscalid	0.01-0.02	fenpropathrin	0.005-0.05
bromopropylate	0.005-0.05	fenson	0.005-0.05
captafol	0.005-0.05	fenvalerate	0.01
captan	0.01	flamprop-isopropyl	0.005-0.05
chlorbenside	0.005-0.05	flamprop-methyl	0.005-0.05
chlorbenzilate	0.01	flamprop-m-isopropyl	0.005-0.05
chlordane	0.005-0.05	fluchloralin	0.005-0.05
chlordecone	0.01-0.05	fluridone	0.01-0.05
chlordimeform	0.005-0.05	fluvalinate	0.01
chlornitrofen	0.005-0.05	folpet	0.01
chlorobenzilate	0.01-0.2	heptachlor	0.01
chloroneb	0.005-0.05	heptachlor epoxide*	0.01
chlorothalonil	0.01	hexachlorobenzene	0.01
chlorpyrifos	0.01	Kresoxim methyl	0.01-0.05
cyfluthrin	0.001-0.05	lambdacyhalothrin	0.01
cypermethrin	0.01	lenacil	0.005-0.05
dacthal	0.01	lindane	0.005-0.05
DDD*	0.01	methoxychlor	0.01
DDE*	0.01	metolachlor	0.005-0.05
DDT	0.01	mirex	0.01
deltamethrin	0.01-0.05	nitrofen	0.01
desmedipham	0.1	nonachlor, trans	0.005-0.05
diallate	0.01-0.05	nuarimol	0.005-0.05
dichlobenil	0.01	ofurace	0.005-0.05
dichlone	0.01	oxadiazon	0.01
dichloran	0.01	oxychlordane	0.01
dichlorfluanid	0.01	oxyfluorfen	0.01
diclofop-methyl	0.01-0.05	PCBs	0.005-0.05

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Method: FDA PAM Vol. 1

ORGANOCHLORINE SCREEN

Active Ingredient	LOD (ppm)	Active Ingredient	LOD (ppm)
PCNB	0.01	pyridaben	0.01 0.05
pendimethalin	0.005-0.05	sonalan	0.01
pentac	0.01-0.05	tecnazene	0.01
pentachloroanaline*	0.01	terbacil	0.005-0.05
pentachloroanisole*	0.01	tetrachloroaniline	0.01
pentachlorobenzene*	0.01	tetrachloronitrobenzene	0.01
pentachlorothioanaline*	0.01	tetradifon	0.01
permethrin	0.01	thiobencarb	0.005-0.05
perthane	0.005-0.05	tolyfluanid	0.005-0.05
phenmedipham	0.1	toxaphene	0.05-0.5
procymidone	0.01	triadimefon	0.01
profluralin	0.01	triallate	0.01
pronamide	0.01	trifluralin	0.01
propanil	0.01-0.08	triforine	0.01-0.05
propargite	0.05-0.2	vegadex	0.01
pyrethrins	0.05-0.2	vinclozolin	0.01

Appendix 3. Definitions

Certified Product. An agricultural product that has been certified to the requirements of this Standard.

LOD. The "limit of detection" below which a laboratory cannot confirm the presence of a specific residue in a given commodity. For pesticides, LODs are established in accordance with FDA PAM II protocols for pesticides. For heavy metals, LODs are established in accordance with EPA protocols for ICP-MS. For other industrial chemicals, LODs are established in accordance with EPA 600-series protocols.

Pesticide. Any of the following agricultural chemicals: insecticides, herbicides, fungicides, fumigants, miticides, rodenticides, nematocides, repellents, algicides, molluscicides, defoliants, inoculants, bactericides, virucides, plant growth regulators, insect growth regulators, and other chemical agents used in the production of agricultural products.

Participant. The individual or company applying for/enrolled in the Pesticide Residue Free Certification Program.

Producer. An individual or company producing a field, orchard, vine or greenhouse plant crop.

Production Lot. A single production lot, or a group of adjoining lots of the same commodity, that have received the same agrochemical inputs, at the same rates and intervals, throughout the duration of the growing and harvest season, as well as in the post-harvest setting.

Program. The Pesticide Residue Free Certification Program.

Residue. Any amount of a pesticide found in a tested food item.

Standard. The Pesticide Residue Free Certification Standard.