



Pesticide- Chlorpyrifos

Overview:

The biological implications of commonly used, registered pesticides on crops has been well documented and basic animal safety testing is required before a pesticide can be registered with the US EPA. Unfortunately, all pesticides, whether “organic” in nature or not, are created to kill and or debilitate an organism. Repeated ingestion of pesticides, long term exposure through hazardous working conditions, or unsafe applications, can lead to serious health implications, including difficulty breathing, paralysis, or convulsions.

While the use of pesticides in traditional agriculture, including Hemp (Cannabis), increases crop yield and decreases the risk of certain plant diseases. The use of these pesticides is allowed because of the minute quantity applied, normally reported as, “parts per a million” (ppm).

Cannabinoid based concentrates derived from hemp and marijuana are typically extracted with polar solvents which also extract and concentrate commonly used pesticides. If the resulting concentrate is not properly post-processed to remediate this dangerous contamination, the end-user will be consuming (or applying) much larger, and likely unsafe, amounts of the pesticide, an amount the application label likely does not take into consideration.

Staggering amounts of hemp-based concentrate products have emerged without substantial and third-party certified safety testing. This lack of full disclosure and of objective, impartial self-regulation regarding consumer safety has caused a new health risk for cannabinoid consumers.

Empirical Data:

Prior to extraction, NeXtraction screens raw hemp material through a third-party, certified laboratory for cannabinoid potency and the presence of microbials, mycotoxins, heavy metals and pesticides. As a result of this pre-screening, NeXtraction has demonstrated that its WET™ process is able to completely eliminate the presence of Chlorpyrifos from its acidic cannabinoid concentrate.

Testing:

Certified, third-party pesticide test for incoming biomass (pre-extracted), WET™ Cannabinoid Concentrate

Results:

Incoming biomass underwent full panel test; QA 20200125AJT0012 (dried flower)
Positive result for Chlorpyrifos 0.035 ppm (WA legal limit 0.20 ppm)

WET™ Cannabinoid Concentrate underwent full panel test; Sample 7011459 (concentrate)
Unremarkable

Extracted biomass underwent full panel test; QA 20200125AJT0014 (dried flower)
Positive result for Chlorpyrifos 0.07 ppm (WA legal limit 0.20 ppm)





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Certified For: Cannabinoids | Microbiologicals | Mycotoxins | Foreign Matter | Moisture | Terpenes | Residual Solvents | Pesticides
Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011971

Origination: NeXtraction

UBI #:

Inventory #: 20200125AJT0012

Strain: Lifter 2020

License #:

QA #: 20200125AJT0012

Type: Trim

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E **Date of Receipt:** 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 **Date of Testing:** 2020-01-27

S. Stevens, LDR



Chemical Residue Screen - Test Report

Cannabis samples were homogenized and extracted using a custom protocol. Instrumental analysis was performed with UHPLC-MS/MS (tandem quadrupole). Target compounds were identified by matching to Certified Reference Materials. Ion-selective detection (multiple reaction monitoring, or MRM) was used to ensure that precursor and product ions of the correct masses co-eluted and were observed in ratios matching those for the reference materials.



Dozens of compounds representing many different classes of fungicides, herbicides, and plant growth regulators were screened for. This document lists all analytes detected in the Chemical Residue Screen.

Findings

Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level	Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level
(sum) Spinosads	NA	NOT DETECTED	PASS	0.20 ppm	Diazinon	333-41-5	NOT DETECTED	PASS	0.20 ppm
(sum) Permethrins	NA	NOT DETECTED	PASS	0.20 ppm	Dichlorvos	62-73-7	NOT DETECTED	PASS	0.10 ppm
Chlorpyrifos	2921-88-2	0.035 ppm	PASS	0.20 ppm	Dimethoate	60-51-5	NOT DETECTED	PASS	0.20 ppm
Abamectin B1a	71751-41-2	NOT DETECTED	PASS	0.50 ppm	Ethoprophos	13194-48-4	NOT DETECTED	PASS	0.20 ppm
Acephate	30560-19-1	NOT DETECTED	PASS	0.40 ppm	Etofenprox	80844-07-1	NOT DETECTED	PASS	0.40 ppm
Acetamiprid	135410-20-7	NOT DETECTED	PASS	0.20 ppm	Etoazole	153233-91-1	NOT DETECTED	PASS	0.20 ppm
Aldicarb	116-06-3	NOT DETECTED	PASS	0.40 ppm	Fenoxycarb	72490-01-8	NOT DETECTED	PASS	0.20 ppm
Azoxystrobin	131860-33-8	NOT DETECTED	PASS	0.20 ppm	Fenpyroximate	134098-61-6	NOT DETECTED	PASS	0.40 ppm
Bifenazate	149877-41-8	NOT DETECTED	PASS	0.20 ppm	Fipronil	120068-37-3	NOT DETECTED	PASS	0.40 ppm
Bifenthrin	82657-04-3	NOT DETECTED	PASS	0.20 ppm	Flonicamid	158062-67-0	NOT DETECTED	PASS	1.00 ppm
Boscalid	188425-85-6	NOT DETECTED	PASS	0.40 ppm	Fludioxonil	131341-86-1	NOT DETECTED	PASS	0.40 ppm
Carbaryl	63-25-2	NOT DETECTED	PASS	0.20 ppm	Hexythiazox	78587-05-0	NOT DETECTED	PASS	1.00 ppm
Carbofuran	1563-66-2	NOT DETECTED	PASS	0.20 ppm	Imazalil	35554-44-0	NOT DETECTED	PASS	0.20 ppm
Chlorantraniliprole	500008-45-7	NOT DETECTED	PASS	0.20 ppm	Imidacloprid	138261-41-3	NOT DETECTED	PASS	0.40 ppm
Chloromequat	7003-89-6	NOT DETECTED	PASS	0.10 ppm	Kresoxim-methyl	143390-89-0	NOT DETECTED	PASS	0.40 ppm
cis-Permethrin	52645-53-1	NOT DETECTED	PASS	0.20 ppm	Malathion	121-75-5	NOT DETECTED	PASS	0.20 ppm
Clofentezine	74115-24-5	NOT DETECTED	PASS	0.20 ppm	Metalaxyl	57837-19-1	NOT DETECTED	PASS	0.20 ppm
Daminozide	1596-84-5	NOT DETECTED	PASS	1.00 ppm	Methiocarb	2032-65-7	NOT DETECTED	PASS	0.20 ppm

* Greater than lower limit of detection (>LLOD) and less than lower limit of quantification (<LLOQ). Applies to instances when the analyte has been detected and positively identified, but the concentration is lower than we can accurately quantify. Specifically: signal to noise ratio greater than 3 and signal less than calibration. LLOD is ~0.001 ppm for most analytes, LLOQ is ~0.01 for most analytes. Number shown is lower end of calibration (LLOQ).

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CBDmax (a.k.a. Total CBD) = CBD + (CBD-A * 0.877)
Total Cannabinoid is a raw sum of all measured cannabinoids
In Traceability, Total Cannabinoid is a sum of THCmax and CBDmax
Figures may differ slightly from traceability due to rounding

ND = Not Detected
NE = Not Examined
Unk = Unknown

Analytical Methods Used
Cannabinoids: HPLC-UV
Microbial: Plate Counting
Terpenes: HS-GC-FID
Solvents: HS-GC-MS

Trace Residue: UHPLC-MS/MS
Water Activity: HYGROMER®
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Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011971

Origination: NeXtraction

UBI #:

Inventory #: 20200125AJT0012

Strain: Lifter 2020

License #:

QA #: 20200125AJT0012

Type: Trim

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E Date of Receipt: 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 Date of Testing: 2020-01-27

S. Stevens, LDR



Chemical Residue Screen - Test Report

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Dozens of compounds representing many different classes of fungicides, herbicides, and plant growth regulators were screened for. This document lists all analytes detected in the Chemical Residue Screen.



Findings

Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level	Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level
Methomyl	16752-77-5	NOT DETECTED	PASS	0.40 ppm	Thiacloprid	111988-49-9	NOT DETECTED	PASS	0.20 ppm
Myclobutanil	88671-89-0	NOT DETECTED	PASS	0.20 ppm	Thiamethoxam	153719-23-4	NOT DETECTED	PASS	0.20 ppm
Naled	300-76-5	NOT DETECTED	PASS	0.50 ppm	trans-Permethrin	52645-53-2	NOT DETECTED	PASS	0.20 ppm
Oxamyl	23135-22-0	NOT DETECTED	PASS	1.00 ppm	Trifloxystrobin	141517-21-7	NOT DETECTED	PASS	0.20 ppm
Paclobutrazol	76738-62-0	NOT DETECTED	PASS	0.40 ppm	Uniconazole	83657-22-1	NOT DETECTED	PASS	0.10 ppm
Phosemet (Imidan)	732-11-6	NOT DETECTED	PASS	0.20 ppm					
Piperonyl Butoxide	51-03-6	NOT DETECTED	NA	NA					
Prallethrin	23031-36-9	NOT DETECTED	PASS	0.20 ppm					
Propiconazole	60207-90-1	NOT DETECTED	PASS	0.40 ppm					
Propoxur	114-26-1	NOT DETECTED	PASS	0.20 ppm					
Pyrethrin I	8003-34-7	NOT DETECTED	NA	NA					
Pyridaben	96489-71-3	NOT DETECTED	PASS	0.20 ppm					
Spinosad A	168316-95-8	NOT DETECTED	PASS	0.20 ppm					
Spinosad D	168316-95-9	NOT DETECTED	PASS	0.20 ppm					
Spiromesifen	283594-90-1	NOT DETECTED	PASS	0.20 ppm					
Spirotetramat	203313-25-1	NOT DETECTED	PASS	0.20 ppm					
Spiroxamine	118134-30-8	NOT DETECTED	PASS	0.40 ppm					
Tebuconazole	80443-41-0	NOT DETECTED	PASS	0.40 ppm					

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THCmax (a.k.a. Total THC) = d9-THC + (THC-A * 0.877)
CBDmax (a.k.a. Total CBD) = CBD + (CBD-A * 0.877)
Total Cannabinoid is a raw sum of all measured cannabinoids
In Traceability, Total Cannabinoid is a sum of THCmax and CBDmax
Figures may differ slightly from traceability due to rounding

ND = Not Detected
NE = Not Examined
Unk = Unknown

Analytical Methods Used
Cannabinoids: HPLC-UV
Microbial: Plate Counting
Terpenes: HS-GC-FID
Solvents: HS-GC-MS

Trace Residue: UHPLC-MS/MS
Water Activity: HYGROMER®
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Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011994

Origination: NeXtraction

UBI #:

Inventory #: 011520C

Strain: 011520C

License #:

QA #: 20200125AJT0015

Type: Dry Sift

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E Date of Receipt: 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 Date of Testing: 2020-01-25

S. Stevens, LDR



Chemical Residue Screen - Test Report

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Dozens of compounds representing many different classes of fungicides, herbicides, and plant growth regulators were screened for. This document lists all analytes detected in the Chemical Residue Screen.



Findings

Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level	Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level
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(sum) Permethrins	NA	NOT DETECTED	PASS	0.20 ppm	Dichlorvos	62-73-7	NOT DETECTED	PASS	0.10 ppm
Abamectin B1a	71751-41-2	NOT DETECTED	PASS	0.50 ppm	Dimethoate	60-51-5	NOT DETECTED	PASS	0.20 ppm
Acephate	30560-19-1	NOT DETECTED	PASS	0.40 ppm	Ethoprophos	13194-48-4	NOT DETECTED	PASS	0.20 ppm
Acetamiprid	135410-20-7	NOT DETECTED	PASS	0.20 ppm	Etofenprox	80844-07-1	NOT DETECTED	PASS	0.40 ppm
Aldicarb	116-06-3	NOT DETECTED	PASS	0.40 ppm	Etoxazole	153233-91-1	NOT DETECTED	PASS	0.20 ppm
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Carbofuran	1563-66-2	NOT DETECTED	PASS	0.20 ppm	Hexythiazox	78587-05-0	NOT DETECTED	PASS	1.00 ppm
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Chlorpyrifos	2921-88-2	NOT DETECTED	PASS	0.20 ppm	Kresoxim-methyl	143390-89-0	NOT DETECTED	PASS	0.40 ppm
cis-Permethrin	52645-53-1	NOT DETECTED	PASS	0.20 ppm	Malathion	121-75-5	NOT DETECTED	PASS	0.20 ppm
Clofentezine	74115-24-5	NOT DETECTED	PASS	0.20 ppm	Metaxyl	57837-19-1	NOT DETECTED	PASS	0.20 ppm
Daminozide	1596-84-5	NOT DETECTED	PASS	1.00 ppm	Methiocarb	2032-65-7	NOT DETECTED	PASS	0.20 ppm

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Terpenes: HS-GC-FID
Solvents: HS-GC-MS

Trace Residue: UHPLC-MSMS
Water Activity: HYGROMER®
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Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011994

Origination: NeXtraction

UBI #:

Inventory #: 011520C

Strain: 011520C

License #:

QA #: 20200125AJT0015

Type: Dry Sift

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E Date of Receipt: 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 Date of Testing: 2020-01-25

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Chemical Residue Screen - Test Report

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Myclobutanil	88671-89-0	NOT DETECTED	PASS	0.20 ppm	Thiamethoxam	153719-23-4	NOT DETECTED	PASS	0.20 ppm
Naled	300-76-5	NOT DETECTED	PASS	0.50 ppm	trans-Permethrin	52645-53-2	NOT DETECTED	PASS	0.20 ppm
Oxamyl	23135-22-0	NOT DETECTED	PASS	1.00 ppm	Trifloxystrobin	141517-21-7	NOT DETECTED	PASS	0.20 ppm
Paclobutrazol	76738-62-0	NOT DETECTED	PASS	0.40 ppm	Uniconazole	83657-22-1	NOT DETECTED	PASS	0.10 ppm
Phosemet (Imidan)	732-11-6	NOT DETECTED	PASS	0.20 ppm					
Piperonyl Butoxide	51-03-6	NOT DETECTED	PASS	2.00 ppm					
Prallethrin	23031-36-9	NOT DETECTED	PASS	0.20 ppm					
Propiconazole	60207-90-1	NOT DETECTED	PASS	0.40 ppm					
Propoxur	114-26-1	NOT DETECTED	PASS	0.20 ppm					
Pyrethrin I	8003-34-7	NOT DETECTED	PASS	1.00 ppm					
Pyridaben	96489-71-3	NOT DETECTED	PASS	0.20 ppm					
Spinosad A	168316-95-8	NOT DETECTED	PASS	0.20 ppm					
Spinosad D	168316-95-9	NOT DETECTED	PASS	0.20 ppm					
Spiromesifen	283594-90-1	NOT DETECTED	PASS	0.20 ppm					
Spirotetramat	203313-25-1	NOT DETECTED	PASS	0.20 ppm					
Spiroxamine	118134-30-8	NOT DETECTED	PASS	0.40 ppm					
Tebuconazole	80443-41-0	NOT DETECTED	PASS	0.40 ppm					

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Cannabinoids: HPLC-UV

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Solvents: HS-GC-MS

Trace Residue: UHPLC-

MSMS

Water Activity:

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Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011980

Origination: NeXtraction

UBI #:

Inventory #: 011520PC

Strain: 011520 PC

License #:

QA #: 20200125AJT0014

Type: Trim

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E Date of Receipt: 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 Date of Testing: 2020-01-25

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Chlorpyrifos	2921-88-2	0.07 ppm	PASS	0.20 ppm	Dimethoate	60-51-5	NOT DETECTED	PASS	0.20 ppm
Abamectin B1a	71751-41-2	NOT DETECTED	PASS	0.50 ppm	Ethoprophos	13194-48-4	NOT DETECTED	PASS	0.20 ppm
Acephate	30560-19-1	NOT DETECTED	PASS	0.40 ppm	Etofenprox	80844-07-1	NOT DETECTED	PASS	0.40 ppm
Acetamiprid	135410-20-7	NOT DETECTED	PASS	0.20 ppm	Etoxazole	153233-91-1	NOT DETECTED	PASS	0.20 ppm
Aldicarb	116-06-3	NOT DETECTED	PASS	0.40 ppm	Fenoxycarb	72490-01-8	NOT DETECTED	PASS	0.20 ppm
Azoxystrobin	131860-33-8	NOT DETECTED	PASS	0.20 ppm	Fenpyroximate	134098-61-6	NOT DETECTED	PASS	0.40 ppm
Bifenazate	149877-41-8	NOT DETECTED	PASS	0.20 ppm	Fipronil	120068-37-3	NOT DETECTED	PASS	0.40 ppm
Bifenthrin	82657-04-3	NOT DETECTED	PASS	0.20 ppm	Flonicamid	158062-67-0	NOT DETECTED	PASS	1.00 ppm
Boscalid	188425-85-6	NOT DETECTED	PASS	0.40 ppm	Fludioxonil	131341-86-1	NOT DETECTED	PASS	0.40 ppm
Carbaryl	63-25-2	NOT DETECTED	PASS	0.20 ppm	Hexythiazox	78587-05-0	NOT DETECTED	PASS	1.00 ppm
Carbofuran	1563-66-2	NOT DETECTED	PASS	0.20 ppm	Imazalil	35554-44-0	NOT DETECTED	PASS	0.20 ppm
Chlorantraniliprole	500008-45-7	NOT DETECTED	PASS	0.20 ppm	Imidacloprid	138261-41-3	NOT DETECTED	PASS	0.40 ppm
Chloromequat	7003-89-6	NOT DETECTED	PASS	0.10 ppm	Kresoxim-methyl	143390-89-0	NOT DETECTED	PASS	0.40 ppm
cis-Permethrin	52645-53-1	NOT DETECTED	PASS	0.20 ppm	Malathion	121-75-5	NOT DETECTED	PASS	0.20 ppm
Clofentezine	74115-24-5	NOT DETECTED	PASS	0.20 ppm	Metaxyl	57837-19-1	NOT DETECTED	PASS	0.20 ppm
Daminozide	1596-84-5	NOT DETECTED	PASS	1.00 ppm	Methiocarb	2032-65-7	NOT DETECTED	PASS	0.20 ppm

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These testing results are certified by scientific examination of a single sample provided by the Producer/Processor. Confidence Analytics and its agents did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch. The sample, as received, was homogenized before subsamples were drawn for specific analyses. This report is supplemental to any other reports with the same analytic sample number.

THCmax (a.k.a. Total THC) = d9-THC + (THC-A * 0.877)
CBDmax (a.k.a. Total CBD) = CBD + (CBD-A * 0.877)
Total Cannabinoid is a raw sum of all measured cannabinoids
In Traceability, Total Cannabinoid is a sum of THCmax and CBDmax
Figures may differ slightly from traceability due to rounding

ND = Not Detected
NE = Not Examined
Unk = Unknown

Analytical Methods Used
Cannabinoids: HPLC-UV
Microbial: Plate Counting
Terpenes: HS-GC-FID
Solvents: HS-GC-MS

Trace Residue: UHPLC-MSMS
Water Activity: HYGROMER®
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Confidence Analytics

Cannabis Analytics and Research Specialists

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Certified For: Cannabinoids | Microbiologicals | Mycotoxins | Foreign Matter | Moisture | Terpenes | Residual Solvents | Pesticides

Chemical Residue Screen

Official Test Results for Laboratory Sample # 7011980

Origination: NeXtraction

UBI #:

Inventory #: 011520PC

Strain: 011520 PC

License #:

QA #: 20200125AJT0014

Type: Trim

Harvest Date: Unknown

Result #: Unlisted

Address: 7338 26th St E Date of Receipt: 2020-01-25

Approved By: N. Mosely, CEO

Fife, WA 98424 Date of Testing: 2020-01-25

S. Stevens, LDR



Chemical Residue Screen - Test Report

Cannabis samples were homogenized and extracted using a custom protocol. Instrumental analysis was performed with UHPLC-MS/MS (tandem quadrupole). Target compounds were identified by matching to Certified Reference Materials. Ion-selective detection (multiple reaction monitoring, or MRM) was used to ensure that precursor and product ions of the correct masses co-eluted and were observed in ratios matching those for the reference materials.

Dozens of compounds representing many different classes of fungicides, herbicides, and plant growth regulators were screened for. This document lists all analytes detected in the Chemical Residue Screen.



Findings

Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level	Analyte Name	CAS #	Amount In Sample	PASS/FAIL	WA State Action Level
Methomyl	16752-77-5	NOT DETECTED	PASS	0.40 ppm	Thiacloprid	111988-49-9	NOT DETECTED	PASS	0.20 ppm
Myclobutanil	88671-89-0	NOT DETECTED	PASS	0.20 ppm	Thiamethoxam	153719-23-4	NOT DETECTED	PASS	0.20 ppm
Naled	300-76-5	NOT DETECTED	PASS	0.50 ppm	trans-Permethrin	52645-53-2	NOT DETECTED	PASS	0.20 ppm
Oxamyl	23135-22-0	NOT DETECTED	PASS	1.00 ppm	Trifloxystrobin	141517-21-7	NOT DETECTED	PASS	0.20 ppm
Paclobutrazol	76738-62-0	NOT DETECTED	PASS	0.40 ppm	Uniconazole	83657-22-1	NOT DETECTED	PASS	0.10 ppm
Phosemet (Imidan)	732-11-6	NOT DETECTED	PASS	0.20 ppm					
Piperonyl Butoxide	51-03-6	NOT DETECTED	NA	NA					
Prallethrin	23031-36-9	NOT DETECTED	PASS	0.20 ppm					
Propiconazole	60207-90-1	NOT DETECTED	PASS	0.40 ppm					
Propoxur	114-26-1	NOT DETECTED	PASS	0.20 ppm					
Pyrethrin I	8003-34-7	NOT DETECTED	NA	NA					
Pyridaben	96489-71-3	NOT DETECTED	PASS	0.20 ppm					
Spinosad A	168316-95-8	NOT DETECTED	PASS	0.20 ppm					
Spinosad D	168316-95-9	NOT DETECTED	PASS	0.20 ppm					
Spiromesifen	283594-90-1	NOT DETECTED	PASS	0.20 ppm					
Spirotetramat	203313-25-1	NOT DETECTED	PASS	0.20 ppm					
Spiroxamine	118134-30-8	NOT DETECTED	PASS	0.40 ppm					
Tebuconazole	80443-41-0	NOT DETECTED	PASS	0.40 ppm					

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