



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Job Number: 18-010557
Report Date: 11/26/2018
Report#: 18-010557-00
ORELAP#: OR100028

Received: 11/20/18 11:01

Product identity: 11-16-18-Organic Master Batch
Laboratory ID: 18-010557-0005

Summary

Potency:

Analyte	Result (%)		
CBD	5.03		
CBD-A	3.59		
CBC†	0.353		
Δ9-THC	0.197		
CBC-A†	0.122		
CBG†	0.108		
			CBD-Total 8.18% --- THC-Total 0.197% --- (Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Microbiology:

Less than LOQ for all analytes.

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Product identity: 11-16-18-Organic Master Batch
Client/Metric ID:
Sample Date:
Laboratory ID: 18-010557-0005
Relinquished by: Received By Mail
Temp: 20.8 °C
Weight Received: 2 g

Sample Results

Potency	Method J AOAC 2015 V98-6			Units %	Batch 1807402	Analyze 11/26/18 10:11 AM
Analyte	As Received	Dry weight	LOQ	Notes	<ul style="list-style-type: none"> ● CBD ● CBD-A ● CBC ● Δ9-THC ● CBC-A ● CBG 	
CBC†	0.353		0.100			
CBC-A†	0.122		0.100			
CBC-Total†	0.460		0.188			
CBD	5.03		0.100			
CBD-A	3.59		0.100			
CBD-Total	8.18		0.188			
CBDV†	< LOQ		0.100			
CBDV-A†	< LOQ		0.100			
CBDV-Total†	< LOQ		0.187			
CBG†	0.108		0.100			
CBG-A†	< LOQ		0.100			
CBG-Total†	< LOQ		0.188			
CBL†	< LOQ		0.100			
CBN	< LOQ		0.100			
Δ8-THC†	< LOQ		0.100			
Δ9-THC	0.197		0.100			
THC-A	< LOQ		0.100			
THC-Total	0.197		0.187			
THCV†	< LOQ		0.100			
THCV-A†	< LOQ		0.100			
THCV-Total†	< LOQ		0.187			

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Salmonella spp.	Negative		/g		1807371	11/22/18	AOAC RI 050701	
E. coli O157:H7	Negative		/g		1807382	11/21/18	AOAC RI 070801	

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Solvents					Method EPA5021A	Units µg/g	Batch 1807417	Analyze 11/21/18 02:25 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		60.0			2,2-Dimethylpropane	< LOQ		2,800		
2,3-Dimethylbutane	< LOQ		60.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	2.00	pass		Butanes (sum)	< LOQ	5000	4,400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	30.0	pass	
Hexanes (sum)	< LOQ	290	210	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass	
Methylpropane	< LOQ		2,200			n-Butane	< LOQ		2,200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	3,200	pass		Propane	< LOQ	5000	1,700	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass	

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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1807443 Analyze 11/24/18 08:32 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.100	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin (incl.	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrins	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

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Received: 11/20/18 11:01

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

g = Gram

$\mu\text{g/g}$ = Microgram per gram

mg/kg = Milligram per kilogram

/g = Per gram

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 1807402**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.192		0.2	%	96.0	85 - 115	Acceptable		
CBDV	0.204		0.2	%	102	85 - 115	Acceptable		
CBD-A	0.195		0.2	%	97.5	85 - 115	Acceptable		
CBG-A	0.191		0.2	%	95.5	85 - 115	Acceptable		
CBG	0.202		0.2	%	101	85 - 115	Acceptable		
CBD	0.192		0.2	%	96.0	85 - 115	Acceptable		
THCV	0.194		0.2	%	97.0	85 - 115	Acceptable		
THCVA	0.188		0.2	%	94.0	85 - 115	Acceptable		
CBN	0.203		0.2	%	102	85 - 115	Acceptable		
THC	0.196		0.2	%	98.0	85 - 115	Acceptable		
D8THC	0.189		0.2	%	94.5	85 - 115	Acceptable		
CBL	0.183		0.2	%	91.5	85 - 115	Acceptable		
CBC	0.207		0.2	%	104	85 - 115	Acceptable		
THCA	0.187		0.2	%	93.5	85 - 115	Acceptable		
CBCA	0.183		0.2	%	91.5	85 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes	
CBDV-A	ND	0.1	%	< 0.1		Acceptable		
CBDV	ND	0.1	%	< 0.1		Acceptable		
CBD-A	ND	0.1	%	< 0.1		Acceptable		
CBG-A	ND	0.1	%	< 0.1		Acceptable		
CBG	ND	0.1	%	< 0.1		Acceptable		
CBD	ND	0.1	%	< 0.1		Acceptable		
THCV	ND	0.1	%	< 0.1		Acceptable		
THCVA	ND	0.1	%	< 0.1		Acceptable		
CBN	ND	0.1	%	< 0.1		Acceptable		
THC	ND	0.1	%	< 0.1		Acceptable		
D8THC	ND	0.1	%	< 0.1		Acceptable		
CBL	ND	0.1	%	< 0.1		Acceptable		
CBC	ND	0.1	%	< 0.1		Acceptable		
THCA	ND	0.1	%	< 0.1		Acceptable		
CBCA	ND	0.1	%	< 0.1		Acceptable		

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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J AOAC 2015 V98-6		Batch ID: 1807402						
Sample Duplicate		Sample ID: 18-010527-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBDV	ND	ND	0.1	%	0	< 20	Acceptable	
CBD-A	0.174	0.181	0.1	%	3.94	< 20	Acceptable	
CBG-A	1.12	1.09	0.1	%	2.71	< 20	Acceptable	
CBG	0.337	0.363	0.1	%	7.43	< 20	Acceptable	
CBD	ND	ND	0.1	%	0	< 20	Acceptable	
THCV	ND	0.108	0.1	%	N/A	< 20	Acceptable	R2
THCVA	0.258	0.249	0.1	%	3.55	< 20	Acceptable	
CBN	ND	ND	0.1	%	0	< 20	Acceptable	
THC	23.0	25.3	0.1	%	9.52	< 20	Acceptable	
D8THC	ND	ND	0.1	%	0	< 20	Acceptable	
CBL	ND	ND	0.1	%	0	< 20	Acceptable	
CBC	0.211	0.223	0.1	%	5.53	< 20	Acceptable	
THCA	51.5	49.3	0.1	%	4.37	< 20	Acceptable	
CBCA	0.567	0.572	0.1	%	0.878	< 20	Acceptable	

Abbreviations

- R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.
- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation

Units of Measure:

- % - Percent

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Laboratory Quality Control Results

EPA 5021				Batch ID: 1807417				
Method Blank				Laboratory Control Sample				
Analyte	Result	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 1700	1530	1940	µg/g	78.9	70 - 130	
Isobutane	ND	< 2200	2020	2510	µg/g	80.5	70 - 130	
n-Butane	ND	< 2200	1980	2510	µg/g	78.9	70 - 130	
neo-pentane	ND	< 2800	2470	3190	µg/g	77.4	70 - 130	
Methanol	ND	< 200	1860	2090	µg/g	89.0	70 - 130	
Ethylene Oxide	ND	< 30	140	192	µg/g	72.9	70 - 130	
Isopentane	ND	< 200	1880	2090	µg/g	90.0	70 - 130	
Pentane	ND	< 200	1830	2080	µg/g	88.0	70 - 130	
Ethyl Ether	ND	< 200	1830	2070	µg/g	88.4	70 - 130	
2,2-Dimethylbutane	ND	< 60	509	591	µg/g	86.1	70 - 130	
Acetone	ND	< 200	1840	1990	µg/g	92.5	70 - 130	
2-Propanol	ND	< 200	1960	2200	µg/g	89.1	70 - 130	
Acetonitrile	ND	< 100	702	841	µg/g	83.5	70 - 130	
2,3-Dimethylbutane	ND	< 60	472	545	µg/g	86.6	70 - 130	
Dichloromethane	ND	< 200	1250	1410	µg/g	88.7	70 - 130	
2-methylpentane	ND	< 30	232	261	µg/g	88.9	70 - 130	
3-methylpentane	ND	< 30	243	264	µg/g	92.0	70 - 130	
Hexane	ND	< 30	242	273	µg/g	88.6	70 - 130	
Ethyl Acetate	ND	< 200	1840	2090	µg/g	88.0	70 - 130	
2-Butanol	ND	< 200	1860	2100	µg/g	88.6	70 - 130	
Tetrahydrofuran	ND	< 100	734	822	µg/g	89.3	70 - 130	
Cyclohexane	ND	< 200	1880	2060	µg/g	91.3	70 - 130	
Benzene	ND	< 2	36.7	35.6	µg/g	103.1	70 - 130	
Isopropyl acetate	ND	< 200	1850	2080	µg/g	88.9	70 - 130	
Heptane	ND	< 200	1820	2090	µg/g	87.1	70 - 130	
1,4-Dioxane	ND	< 100	733	830	µg/g	88.3	70 - 130	
2-Ethoxyethanol	ND	< 30	254	264	µg/g	96.2	70 - 130	
Toluene	ND	< 100	699	839	µg/g	83.3	70 - 130	
Ethylene glycol	ND	< 200	1590	2090	µg/g	76.1	70 - 130	
Ethylbenzene	ND	< 200	1720	2080	µg/g	82.7	70 - 130	
m,p-Xylene	ND	< 200	1390	1700	µg/g	81.8	70 - 130	
o-Xylene	ND	< 200	1370	1660	µg/g	82.5	70 - 130	
Cumene	ND	< 30	208	262	µg/g	79.4	70 - 130	

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QC - Sample Duplicate

Sample ID: 18-0100591-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	1700.0	µg/g	0.0	< 20.0	Acceptable	
Isobutane	ND	ND	2200.0	µg/g	0.0	< 20.0	Acceptable	
n-Butane	ND	ND	2200.0	µg/g	0.0	< 20.0	Acceptable	
neo-pentane	ND	ND	2800.0	µg/g	0.0	< 20.0	Acceptable	
Methanol	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Ethylene Oxide	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	
Isopentane	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Pentane	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Ethyl Ether	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
2,2-Dimethylbutane	ND	ND	60.0	µg/g	0.0	< 20.0	Acceptable	
Acetone	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
2-Propanol	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Acetonitrile	ND	ND	100.0	µg/g	0.0	< 20.0	Acceptable	
2,3-Dimethylbutane	ND	ND	60.0	µg/g	0.0	< 20.0	Acceptable	
Dichloromethane	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
2-methylpentane	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	
3-methylpentane	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	
Hexane	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	
Ethyl Acetate	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
2-Butanol	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Tetrahydrofuran	ND	ND	100.0	µg/g	0.0	< 20.0	Acceptable	
Cyclohexane	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Benzene	ND	ND	2.0	µg/g	0.0	< 20.0	Acceptable	
Isopropyl acetate	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Heptane	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
1,4-Dioxane	ND	ND	100.0	µg/g	0.0	< 20.0	Acceptable	
2-Ethoxyethanol	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	
Toluene	ND	ND	100.0	µg/g	0.0	< 20.0	Acceptable	
Ethylene glycol	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Ethylbenzene	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
m,p-Xylene	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
o-Xylene	ND	ND	200.0	µg/g	0.0	< 20.0	Acceptable	
Cumene	ND	ND	30.0	µg/g	0.0	< 20.0	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
 - * Screening only
- Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

- µg/g - Microgram per gram or ppm
- mg/kg - Milligrams per Kilogram
- Aw - Water Activity unit

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 1807443				
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200		1.040	1.000	104.0	70 - 130	
Acequinocyl	ND	< 1.000		3.130	4.000	78.3	70 - 130	
Acetamiprid	ND	< 0.100		0.407	0.400	101.8	70 - 130	
Aldicarb	ND	< 0.200		0.770	0.800	96.3	70 - 130	
Abamectin	ND	< 0.288		0.856	1.000	85.6	70 - 130	
Azoxystrobin	ND	< 0.100		0.421	0.400	105.3	70 - 130	
Bifenazate	ND	< 0.100		0.384	0.400	96.0	70 - 130	
Bifenthrin	ND	< 0.100		0.352	0.400	88.0	70 - 130	
Boscalid	ND	< 0.100		0.794	0.800	99.3	70 - 130	
Carbaryl	ND	< 0.100		0.409	0.400	102.3	70 - 130	
Carbofuran	ND	< 0.100		0.450	0.400	112.5	70 - 130	
Chlorantraniliprol	ND	< 0.100		0.402	0.400	100.5	70 - 130	
Chlorfenapyr	ND	< 1.000		1.570	2.000	78.5	70 - 130	
Chlorpyrifos	ND	< 0.100		0.280	0.400	70.0	70 - 130	
Clofentezine	ND	< 0.100		0.382	0.400	95.5	70 - 130	
Cyfluthrin	ND	< 1.000		1.690	2.000	84.5	30 - 150	
Cypermethrin	ND	< 1.000		1.570	2.000	78.5	70 - 130	
Daminozide	ND	< 1.000		2.000	2.000	100.0	30 - 150	
Diazinon	ND	< 0.100		0.389	0.400	97.3	70 - 130	
Dichlorvos	ND	< 0.500		1.900	2.000	95.0	70 - 130	
Dimethoat	ND	< 0.100		0.403	0.400	100.8	70 - 130	
Ethoprophos	ND	< 0.100		0.417	0.400	104.3	70 - 130	
Etofenprox	ND	< 0.100		0.716	0.800	89.5	70 - 130	
Etoxazol	ND	< 0.100		0.380	0.400	95.0	70 - 130	
Fenoxycarb	ND	< 0.100		0.408	0.400	102.0	70 - 130	
Fenpyroximat	ND	< 0.100		0.771	0.800	96.4	70 - 130	
Fipronil	ND	< 0.100		0.792	0.800	99.0	70 - 130	
Flonicamid	ND	< 0.400		1.030	0.800	128.8	70 - 130	
Fludioxonil	ND	< 0.100		0.733	0.800	91.6	70 - 130	
Hexythiazox	ND	< 0.400		0.737	1.000	73.7	70 - 130	
Imazalil	ND	< 0.100		0.389	0.400	97.3	70 - 130	
Imidacloprid	ND	< 0.200		0.807	0.800	100.9	70 - 130	
Kresoxim-Methyl	ND	< 0.100		0.747	0.800	93.4	70 - 130	
Malathion	ND	< 0.100		0.412	0.400	103.0	70 - 130	
Metaxalyl	ND	< 0.100		0.417	0.400	104.3	70 - 130	
Methiocarb	ND	< 0.100		0.389	0.400	97.3	70 - 130	
Methomyl	ND	< 0.200		0.618	0.800	77.3	70 - 130	
MGK 264	ND	< 0.100		0.372	0.400	93.0	70 - 130	
Myclobutanil	ND	< 0.100		0.312	0.400	78.0	70 - 130	
Naled	ND	< 0.200		0.981	1.000	98.1	70 - 130	
Oxamyl	ND	< 0.400		2.070	2.000	103.5	70 - 130	
Paclobutrazol	ND	< 0.200		0.860	0.800	107.5	70 - 130	
Parathion Methyl	ND	< 0.200		0.803	0.800	100.4	30 - 150	
Permethrin	ND	< 0.100		0.354	0.400	88.5	70 - 130	
Phosmet	ND	< 0.100		0.411	0.400	102.8	70 - 130	
Piperonyl butoxide	ND	< 1.000		1.690	2.000	84.5	70 - 130	
Prallethrin	ND	< 0.200		0.362	0.400	90.5	70 - 130	
Propiconazole	ND	< 0.200		0.767	0.800	95.9	70 - 130	
Propoxur	ND	< 0.100		0.421	0.400	105.3	70 - 130	
Pyrethrins	ND	< 0.500		0.222	0.375	59.2	70 - 130	Q6
Pyridaben	ND	< 0.100		0.240	0.400	60.0	70 - 130	Q6
Spinosad	ND	< 0.100		0.376	0.388	96.9	70 - 130	
Spiromesifen	ND	< 0.100		0.346	0.400	86.5	70 - 130	
Spirotetramat	ND	< 0.100		0.398	0.400	99.5	70 - 130	
Spiroxamine	ND	< 0.100		0.916	0.800	114.5	70 - 130	
Tebuconazol	ND	< 0.200		0.778	0.800	97.3	70 - 130	
Thiacloprid	ND	< 0.100		0.421	0.400	105.3	70 - 130	
Thiamethoxam	ND	< 0.100		0.415	0.400	103.8	70 - 130	
Trifloxystrobin	ND	< 0.100		0.398	0.400	99.5	70 - 130	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 1807443			
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 18-010527-0001				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.822	0.882	1.000	7.0	< 30	82.2	88.2	50 - 150
Acequinocyl	0.000	6.700	7.630	4.000	13.0	< 30	167.5	190.8	50 - 150 Q1
Acetamiprid	0.000	0.374	0.395	0.400	5.5	< 30	93.5	98.8	50 - 150
Aldicarb	0.000	0.710	0.762	0.800	7.1	< 30	88.8	95.3	50 - 150
Abamectin	0.000	0.985	1.130	1.000	13.7	< 30	98.5	113.0	50 - 150
Azoxystrobin	0.000	0.380	0.411	0.400	7.8	< 30	95.0	102.8	50 - 150
Bifenazate	0.000	0.371	0.394	0.400	6.0	< 30	92.8	98.5	50 - 150
Bifenthrin	0.000	0.912	0.958	0.400	4.9	< 30	228.0	239.5	50 - 150 Q
Boscalid	0.003	0.831	0.867	0.800	4.2	< 30	103.5	108.0	50 - 150
Carbaryl	0.000	0.372	0.383	0.400	2.9	< 30	93.0	95.8	50 - 150
Carbofuran	0.000	0.407	0.435	0.400	6.7	< 30	101.8	108.8	50 - 150
Chlorantraniliprol	0.000	0.368	0.387	0.400	5.0	< 30	92.0	96.8	50 - 150
Chlorfenapyr	0.000	3.820	4.250	2.000	10.7	< 30	191.0	212.5	50 - 150 Q1
Chlorpyrifos	0.025	0.599	0.615	0.400	2.6	< 30	143.4	147.3	50 - 150
Clofentezine	0.000	0.400	0.435	0.400	8.4	< 30	100.0	108.8	50 - 150
Cyfluthrin	0.000	2.960	3.260	2.000	9.6	< 30	148.0	163.0	30 - 150 Q1
Cypermethrin	0.057	2.090	2.190	2.000	4.7	< 30	101.7	106.7	50 - 150
Daminozide	0.000	1.390	1.520	2.000	8.9	< 30	69.5	76.0	30 - 150
Diazinon	0.000	0.382	0.409	0.400	6.8	< 30	95.5	102.3	50 - 150
Dichlorvos	0.000	1.610	1.730	2.000	7.2	< 30	80.5	86.5	50 - 150
Dimethoat	0.000	0.371	0.392	0.400	5.5	< 30	92.8	98.0	50 - 150
Ethoprophos	0.000	0.390	0.417	0.400	6.7	< 30	97.5	104.3	50 - 150
Etofenprox	0.000	0.922	0.981	0.800	6.2	< 30	115.3	122.6	50 - 150
Etoxazol	0.000	0.536	0.564	0.400	5.1	< 30	134.0	141.0	50 - 150
Fenoxycarb	0.000	0.387	0.411	0.400	6.0	< 30	96.8	102.8	50 - 150
Fenpyroximat	0.000	0.977	1.050	0.800	7.2	< 30	122.1	131.3	50 - 150
Fipronil	0.000	0.756	0.807	0.800	6.5	< 30	94.5	100.9	50 - 150
Flonicamid	0.000	0.900	0.991	0.800	9.6	< 30	112.5	123.9	50 - 150
Fludioxonil	0.000	0.676	0.737	0.800	8.6	< 30	84.5	92.1	50 - 150
Hexythiazox	0.000	1.560	1.640	1.000	5.0	< 30	156.0	164.0	50 - 150 Q1
Imazalil	0.009	0.413	0.431	0.400	4.3	< 30	101.0	105.5	50 - 150
Imidacloprid	0.000	0.849	0.905	0.800	6.4	< 30	106.1	113.1	50 - 150
Kresoxim-Methyl	0.000	1.140	1.180	0.800	3.4	< 30	142.5	147.5	50 - 150
Malathion	0.000	0.387	0.401	0.400	3.6	< 30	96.8	100.3	50 - 150
Metaxalyl	0.000	0.372	0.418	0.400	11.6	< 30	93.0	104.5	50 - 150
Methiocarb	0.000	0.376	0.393	0.400	4.4	< 30	94.0	98.3	50 - 150
Methomyl	0.000	0.738	0.721	0.800	2.3	< 30	92.3	90.1	50 - 150
MGK 264	0.000	0.441	0.472	0.400	6.8	< 30	110.3	118.0	50 - 150
Myclobutanil	0.000	0.280	0.332	0.400	17.0	< 30	70.0	83.0	50 - 150
Naled	0.000	0.923	0.976	1.000	5.6	< 30	92.3	97.6	50 - 150
Oxamyl	0.000	1.830	1.830	2.000	0.0	< 30	91.5	91.5	50 - 150
Paclobutrazol	0.000	0.803	0.894	0.800	10.7	< 30	100.4	111.8	50 - 150
Parathion Methyl	0.000	0.787	0.846	0.800	7.2	< 30	98.4	105.8	30 - 150
Permethrin	0.037	0.519	0.556	0.400	6.9	< 30	120.6	129.9	50 - 150
Phosmet	0.000	0.381	0.414	0.400	8.3	< 30	95.3	103.5	50 - 150
Piperonyl butoxide	0.000	3.900	4.180	2.000	6.9	< 30	195.0	209.0	50 - 150 Q1
Prallethrin	0.000	0.440	0.488	0.400	10.3	< 30	110.0	122.0	50 - 150
Propiconazole	0.000	0.806	0.838	0.800	3.9	< 30	100.8	104.8	50 - 150
Propoxur	0.000	0.381	0.413	0.400	8.1	< 30	95.3	103.3	50 - 150
Pyrethrins	0.000	0.328	0.350	0.375	6.5	< 30	87.4	93.3	50 - 150
Pyridaben	0.000	0.168	0.176	0.400	4.7	< 30	42.0	44.0	50 - 150 Q
Spinosad	0.000	0.429	0.458	0.388	6.5	< 30	110.6	118.0	50 - 150
Spiromesifen	0.000	0.440	0.475	0.400	7.7	< 30	110.0	118.8	50 - 150
Spirotetramat	0.000	0.381	0.419	0.400	9.5	< 30	95.3	104.8	50 - 150
Spiroxamine	0.000	0.840	0.907	0.800	7.7	< 30	105.0	113.4	50 - 150
Tebuconazol	0.000	0.841	0.918	0.800	8.8	< 30	105.1	114.8	50 - 150
Thiacloprid	0.000	0.377	0.418	0.400	10.3	< 30	94.3	104.5	50 - 150
Thiamethoxam	0.000	0.390	0.395	0.400	1.3	< 30	97.5	98.8	50 - 150
Trifloxystrobin	0.000	0.416	0.439	0.400	3.6	< 30	104.0	109.8	50 - 150

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

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