


1811008-ORC

Sublime Solutions
500 S. Danebo Street
Eugene, OR 97402
541-484-5770Sample Type: Extracts
Sample Date: 11/14/2018
Analysis Date: 11/15/2018
Report Date: 11/19/2018Metric Batch ID:
1A401030000697B000004178
Client's Batch ID:
Harvest/Process Date:Report ID:
LS-181119-5

Safety

Pesticides	Within limits	Analysis Date: 11/15/2018	Pass 
Solvents	Within limits	Analysis Date: 11/17/2018	Pass 


Ian Eustis
Lab Director
Aaron Troyer
Chief Science Officer

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Pesticides Analysis Date: 11/15/2018
 Pesticides Batch ID: PST_111518B

Method: EN 15662
 Unit: µg/g (ppm)

Pass 

Analyte	RHH-MNT-RMM	TDG-HWN-TTW	Limits	LOQ	Notes	Status	Analyte	RHH-MNT-RMM	TDG-HWN-TTW	Limits	LOQ	Notes	Status
Abamectin	<LQ	<LQ	0.5	0.1	-	Pass	Metalaxyl	<LQ	<LQ	0.2	0.1	-	Pass
Acephate	<LQ	<LQ	0.4	0.1	-	Pass	Methiocarb	<LQ	<LQ	0.2	0.1	-	Pass
Acequinocyl	<LQ	<LQ	2.0	1.0	-	Pass	Methomyl	<LQ	<LQ	0.4	0.1	-	Pass
Acetamiprid	<LQ	<LQ	0.2	0.1	-	Pass	Methyl Parathion	<LQ	<LQ	0.2	0.2	-	Pass
Aldicarb	<LQ	<LQ	0.4	0.1	-	Pass	MGK-264	<LQ	<LQ	0.2	0.2	-	Pass
Azoxystrobin	<LQ	<LQ	0.2	0.1	-	Pass	Myclobutanil	<LQ	<LQ	0.2	0.1	-	Pass
Bifenazate	<LQ	<LQ	0.2	0.1	-	Pass	Naled	<LQ	<LQ	0.5	0.2	-	Pass
Bifenthrin	<LQ	<LQ	0.2	0.1	-	Pass	Oxamyl	<LQ	<LQ	1.0	0.1	-	Pass
Boscalid	<LQ	<LQ	0.4	0.1	-	Pass	Paclobutrazol	<LQ	<LQ	0.4	0.1	-	Pass
Carbaryl	<LQ	<LQ	0.2	0.1	-	Pass	Permethrins	<LQ	<LQ	0.2	0.1	-	Pass
Carbofuran	<LQ	<LQ	0.2	0.1	-	Pass	Phosmet	<LQ	<LQ	0.2	0.1	-	Pass
Chlorantraniliprole	<LQ	<LQ	0.2	0.1	-	Pass	Piperonyl Butoxide	<LQ	<LQ	2.0	0.1	-	Pass
Chlorfenapyr	<LQ	<LQ	1.0	0.1	-	Pass	Prallethrin	<LQ	<LQ	0.2	0.1	-	Pass
Chlorpyrifos	<LQ	<LQ	0.2	0.1	-	Pass	Propiconazole	<LQ	<LQ	0.4	0.1	-	Pass
Clofentezine	<LQ	<LQ	0.2	0.1	-	Pass	Propoxur	<LQ	<LQ	0.2	0.1	-	Pass
Cyfluthrin	<LQ	<LQ	1.0	0.5	-	Pass	Pyrethrins	<LQ	<LQ	1.0	0.5	-	Pass
Cypermethrin	<LQ	<LQ	1.0	0.1	-	Pass	Pyridaben	<LQ	<LQ	0.2	0.1	-	Pass
Daminozide	<LQ	<LQ	1.0	0.5	-	Pass	Spinosad	<LQ	<LQ	0.2	0.1	-	Pass
Diazinon	<LQ	<LQ	0.2	0.1	-	Pass	Spiromesifen	<LQ	<LQ	0.2	0.1	-	Pass
Dichlorvos (DDVP)	<LQ	<LQ	1.0	0.5	-	Pass	Spirotetramat	<LQ	<LQ	0.2	0.1	-	Pass
Dimethoate	<LQ	<LQ	0.2	0.1	-	Pass	Spiroxamine	<LQ	<LQ	0.4	0.1	-	Pass
Ethoprophos	<LQ	<LQ	0.2	0.1	-	Pass	Tebuconazole	<LQ	<LQ	0.4	0.1	-	Pass
Etofenprox	<LQ	<LQ	0.4	0.1	-	Pass	Thiacloprid	<LQ	<LQ	0.2	0.1	-	Pass
Etoxazole	<LQ	<LQ	0.2	0.1	-	Pass	Thiamethoxam	<LQ	<LQ	0.2	0.1	-	Pass
Fenoxycarb	<LQ	<LQ	0.2	0.1	-	Pass	Trifloxystrobin	<LQ	<LQ	0.2	0.1	-	Pass
Fenpyroximate	<LQ	<LQ	0.4	0.1	-	Pass							
Fipronil	<LQ	<LQ	0.4	0.1	-	Pass							
Flonicamid	<LQ	<LQ	1.0	0.1	-	Pass							
Fludioxonil	<LQ	<LQ	0.4	0.1	-	Pass							
Hexythiazox	<LQ	<LQ	1.0	0.1	-	Pass							
Imazalil	<LQ	<LQ	0.2	0.1	-	Pass							
Imidacloprid	<LQ	<LQ	0.4	0.1	-	Pass							
Kresoxim-methyl	<LQ	<LQ	0.4	0.1	-	Pass							
Malathion	<LQ	<LQ	0.2	0.1	-	Pass							

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Pesticides Quality Control Data

Pesticides QC Analysis Date: 11/15/2018
 Pesticides QC Batch ID: PST_111518B

Method: EN 15662
 Unit: µg/g (ppm)

Laboratory Pesticides Quality Control Results

Method: EN 15662				Units: ppm (µg/g)				Analysis date: 11/15/18				Batch ID: PST_111518B					
Pesticide	Blank Result	LOQ	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes	Pesticide	Blank Result	LOQ	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes
Abamectin	nd	0.1		0.8	1.0	85	50 - 150		Imazalil	nd	0.1		0.8	1.0	83	50 - 150	
Acephate	nd	0.1		0.9	1.0	92	50 - 150		Imidacloprid	nd	0.1		0.9	1.0	88	50 - 150	
Acequinocyl	nd	1.0		0.8	1.0	85	50 - 150		Kresoxim-methyl	nd	0.1		0.9	1.0	95	50 - 150	
Acetamiprid	nd	0.1		0.9	1.0	89	50 - 150		Malathion	nd	0.1		1.1	1.0	106	50 - 150	
Aldicarb	nd	0.1		0.9	1.0	95	50 - 150		Metaxyl	nd	0.1		1.0	1.0	104	50 - 150	
Azoxystrobin	nd	0.1		0.9	1.0	92	50 - 150		Methiocarb	nd	0.1		0.9	1.0	94	50 - 150	
Bifenthrin	nd	0.1		1.0	1.0	103	50 - 150		Methomyl	nd	0.1		1.1	1.0	113	50 - 150	
Bifenazate	nd	0.1		1.3	1.0	130	50 - 150		Methyl Parathion	nd	0.1		0.5	1.0	50	30 - 150	
Boscalid	nd	0.1		1.1	1.0	106	50 - 150		MGK-264	nd	0.2		1.6	1.0	163	50 - 150	HB
Carbaryl	nd	0.1		1.0	1.0	103	50 - 150		Myclobutanil	nd	0.1		1.0	1.0	101	50 - 150	
Carbofuran	nd	0.1		0.9	1.0	94	50 - 150		Naled	nd	0.1		0.9	1.0	89	50 - 150	
Chlorantraniliprole	nd	0.1		1.0	1.0	105	50 - 150		Oxamyl	nd	0.1		0.9	1.0	88	50 - 150	
Chlorfenapyr	nd	0.1		1.0	1.0	101	50 - 150		Paclobutrazol	nd	0.1		0.9	1.0	93	50 - 150	
Chlorpyrifos	nd	0.1		1.0	1.0	104	50 - 150		Permethrin	nd	0.1		1.1	1.0	110	50 - 150	
Clofentezine	nd	0.1		1.1	1.0	106	50 - 150		Phosmet	nd	0.1		0.9	1.0	93	50 - 150	
Cyfluthrin	nd	0.5		1.6	1.0	162	50 - 150	HB	Piperonyl Butoxide	nd	0.1		0.8	1.0	85	50 - 150	
Cypermethrin	nd	0.1		1.0	1.0	101	50 - 150		Prallethrin	nd	0.1		1.0	1.0	104	50 - 150	
Daminozide	nd	0.5		0.4	1.0	41	10 - 150		Propiconazole	nd	0.1		1.0	1.0	103	50 - 150	
Diazinon	nd	0.1		0.9	1.0	92	50 - 150		Propoxur	nd	0.1		0.9	1.0	90	50 - 150	
Dichlorvos	nd	0.5		0.9	1.0	85	50 - 150		Pyrethrins	nd	0.2		1.1	1.0	106	50 - 150	
Dimethoate	nd	0.1		0.9	1.0	91	50 - 150		Pyridaben	nd	0.1		0.9	1.0	89	50 - 150	
Ethoprophos	nd	0.1		1.2	1.0	122	50 - 150		Spinosad A kps	nd	0.1		0.7	1.0	73	50 - 150	
Etofenprox	nd	0.1		0.9	1.0	86	50 - 150		Spinosad D kps	nd	0.1		0.8	1.0	79	50 - 150	
Etoxazole	nd	0.1		0.8	1.0	84	50 - 150		Spiromesifen	nd	0.1		0.9	1.0	95	50 - 150	
Fenoxycarb	nd	0.1		1.2	1.0	117	50 - 150		Spirotetramat	nd	0.1		1.1	1.0	105	50 - 150	
Fenpyroximate	nd	0.1		0.9	1.0	86	50 - 150		Spiroxamine	nd	0.1		0.6	1.0	64	50 - 150	
Fipronil	nd	0.1		1.0	1.0	100	50 - 150		Tebuconazole	nd	0.1		1.1	1.0	110	50 - 150	
Flonicamid	nd	0.1		1.0	1.0	98	50 - 150		Thiacloprid	nd	0.1		1.0	1.0	97	50 - 150	
Fludioxonil	nd	0.1		0.8	1.0	85	50 - 150		Thiamethoxam	nd	0.1		1.0	1.0	103	50 - 150	
Hexythiazox	nd	0.1		0.9	1.0	93	50 - 150		Trifloxystrobin	nd	0.1		0.9	1.0	90	50 - 150	

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Report ID:
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Residual Solvents Sample Data

Solvents Analysis Date: 11/17/2018
 Solvents Batch ID: RES_111718A

Method: EPA 5021A
 Unit: µg/g (ppm)

Pass 

Analyte	RHH-MNT-RMM	TDG-HWN-TTW	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	<LOQ	<LOQ	0.00	380.0	50.0	-	Pass
2-Butanol	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
2-Ethoxyethanol	<LOQ	<LOQ	0.00	160.0	50.0	-	Pass
Acetone	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Acetonitrile	<LOQ	<LOQ	0.00	410.0	50.0	-	Pass
Benzene	<LOQ	<LOQ	0.00	2.0	2.0	-	Pass
Butanes	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Cumene	<LOQ	<LOQ	0.00	70.0	50.0	-	Pass
Cyclohexane	<LOQ	<LOQ	0.00	3880.0	50.0	-	Pass
Ethyl Acetate	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Ethyl Ether	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Ethylene Glycol	<LOQ	<LOQ	0.00	620.0	250.0	-	Pass
Ethylene Oxide	<LOQ	<LOQ	0.00	50.0	50.0	-	Pass
Heptane	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Hexanes	<LOQ	<LOQ	0.00	290.0	50.0	-	Pass
Isopropanol (2-Propanol)	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Isopropyl Acetate	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Methanol	<LOQ	<LOQ	0.00	3000.0	50.0	-	Pass
Dichloromethane	<LOQ	<LOQ	0.00	600.0	50.0	-	Pass
Pentanes	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Propane	<LOQ	<LOQ	0.00	5000.0	50.0	-	Pass
Tetrahydrofuran	<LOQ	<LOQ	0.00	720.0	50.0	-	Pass
Toluene	<LOQ	<LOQ	0.00	890.0	50.0	-	Pass
Xylenes	<LOQ	<LOQ	0.00	2170.0	50.0	-	Pass

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Residual Solvents Quality Control Data

Solvents QC Analysis Date: 11/17/2018
 Solvents QC Batch ID: RES_111718A

Method: EPA 5021A
 Unit: µg/g (ppm)

Laboratory Residual Solvent Quality Control Results

Method: EPA 5021A Units: µg/mL Batch ID: RES_111718A

Matrix Blank / LCS Results

Analyte	Blank Result	Blank Limit	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes
1,4-Dioxane	< LOQ	50		1103	1000	110	70 - 130	
2-Butanol	< LOQ	50		1037	1000	104	70 - 130	
2-Ethoxyethanol	< LOQ	50		1247	1000	125	70 - 130	
Acetone	< LOQ	50		936	1000	94	70 - 130	
Acetonitrile	< LOQ	50		1046	1000	105	70 - 130	
Benzene	< LOQ	2		18	20	89	70 - 130	
Butanes								
<i>Butane</i>	< LOQ	50		731	1000	73	70 - 130	
<i>Isobutane</i>	< LOQ	50		778	1000	78	70 - 130	
Cyclohexane	< LOQ	50		905	1000	91	70 - 130	
Ethyl acetate	< LOQ	50		979	1000	98	70 - 130	
Ethyl ether	< LOQ	50		953	1000	95	70 - 130	
Ethylbenzene	< LOQ	50		1061	1000	106	70 - 130	
Ethylene glycol	< LOQ	250		1849	1000	185	70 - 130	HB
Ethylene oxide	< LOQ	50		863	1000	86	70 - 130	
Heptane	< LOQ	50		814	1000	81	70 - 130	
Hexanes								
<i>n-Hexane</i>	< LOQ	50		821	1000	82	70 - 130	
<i>2-Methylpentane</i>	< LOQ	50		809	1000	81	70 - 130	
<i>3-Methylpentane</i>	< LOQ	50		870	1000	87	70 - 130	
<i>2,2-Dimethylbutane</i>	< LOQ	50		910	1000	91	70 - 130	
<i>2,3-Dimethylbutane</i>	< LOQ	50		853	1000	85	70 - 130	
Isopropanol	< LOQ	50		1044	1000	104	70 - 130	
Isopropyl acetate	< LOQ	50		1001	1000	100	70 - 130	
Cumene	< LOQ	50		1054	1000	105	70 - 130	
Methanol	< LOQ	50		1103	1000	110	70 - 130	
Dichloromethane	< LOQ	50		965	1000	97	70 - 130	
Pentanes								
<i>Pentane</i>	< LOQ	50		779	1000	78	70 - 130	
<i>Isopentane</i>	< LOQ	50		805	1000	81	70 - 130	
<i>Neopentane</i>	< LOQ	50		862	1000	86	70 - 130	
Propane	< LOQ	50		758	1000	76	70 - 130	
Tetrahydrofuran	< LOQ	50		963	1000	96	70 - 130	
Toluene	< LOQ	50		1017	1000	102	70 - 130	
Xylenes								
<i>m-Xylene</i>	< LOQ	50		1102	1000	110	70 - 130	
<i>o/p-Xylene</i>	< LOQ	50		1065	1000	106	70 - 130	

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Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation