

# 1808014-ORC



Sublime Solutions  
500 S. Danebo Street  
Eugene, OR 97402  
541-484-5770

Sample Type: Extracts  
Sample Date: 8/23/2018  
Analysis Date: 8/24/2018  
Report Date: 8/28/2018

Metric Batch ID:  
1A401030000697B000003680  
Client's Batch ID:  
Harvest/Process Date:

Report ID:  
**MWBC-NGPW**

## Safety

Pesticides	Within limits	Analysis Date: 8/27/2018	Pass 
Solvents	Within limits	Analysis Date: 8/24/2018	Pass 

  
Ian Eustis  
Lab Director  
Aaron Troyer  
Chief Science Officer

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**MWBC-NGPW**



Pesticides Analysis Date: 8/27/2018  
 Pesticides Batch ID: PST\_082718A

Method: EN 15662  
 Unit: µg/g (ppm)

Pass 

Analyte	ZWM-DNT-TMC	WBG-WMS-BTC	Limits	LOQ	Notes	Status	Analyte	ZWM-DNT-TMC	WBG-WMS-BTC	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	0.218	0.210	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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 Harvest/Process Date:

Report ID:  
**MWBC-NGPW**



Pesticides QC Analysis Date: 8/27/2018  
 Pesticides QC Batch ID: PST\_082718A

Method: EN 15662  
 Unit: µg/g (ppm)

## Laboratory Pesticides Quality Control Results

Method: EN 15662 Units: ppm (µg/g) Analysis date: 8/27/18 Batch ID: PST\_082718A

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		1.3	1.0	126	50 - 150		Imazalil	nd	0.1		1.0	1.0	101	50 - 150	
Acephate	nd	0.1		1.2	1.0	118	50 - 150		Imidacloprid	nd	0.1		1.0	1.0	95	50 - 150	
Acetaminocyl	nd	1.0		0.7	1.0	69	50 - 150		Kresoxim-methyl	nd	0.1		1.2	1.0	120	50 - 150	
Acetamiprid	nd	0.1		1.2	1.0	120	50 - 150		Malathion	nd	0.1		1.2	1.0	121	50 - 150	
Aldicarb	nd	0.1		1.1	1.0	113	50 - 150		Metalaxyl	nd	0.1		1.1	1.0	113	50 - 150	
Azoxystrobin	nd	0.1		1.0	1.0	102	50 - 150		Methiocarb	nd	0.1		1.1	1.0	105	50 - 150	
Bifenthrin	nd	0.1		1.0	1.0	98	50 - 150		Methomyl	nd	0.1		1.1	1.0	105	50 - 150	
Bifenazate	nd	0.1		0.9	1.0	88	50 - 150		Methyl Parathion	nd	0.1		0.9	1.0	92	30 - 150	
Boscalid	nd	0.1		0.9	1.0	93	50 - 150		MGK-264	nd	0.2		1.1	1.0	108	50 - 150	
Carbaryl	nd	0.1		1.2	1.0	124	50 - 150		Myclobutanil	nd	0.1		1.0	1.0	97	50 - 150	
Carbofuran	nd	0.1		1.0	1.0	104	50 - 150		Naled	nd	0.1		1.1	1.0	110	50 - 150	
Chlorantraniliprole	nd	0.1		1.2	1.0	122	50 - 150		Oxamyl	nd	0.1		1.1	1.0	114	50 - 150	
Chlorfenapyr	nd	0.1		1.0	1.0	100	50 - 150		Paclobutrazol	nd	0.1		1.0	1.0	98	50 - 150	
Chlorpyrifos	nd	0.1		1.1	1.0	111	50 - 150		Permethrin	nd	0.1		1.1	1.0	108	50 - 150	
Clofentezine	nd	0.1		0.8	1.0	82	50 - 150		Phosmet	nd	0.1		0.9	1.0	94	50 - 150	
Cyfluthrin	nd	0.5		1.1	1.0	106	50 - 150		Piperonyl Butoxide	nd	0.1		1.1	1.0	106	50 - 150	
Cypermethrin	nd	0.1		1.3	1.0	125	50 - 150		Prallethrin	nd	0.1		1.1	1.0	109	50 - 150	
Daminozide	nd	0.5		0.2	1.0	21	10 - 150		Propiconazole	nd	0.1		0.9	1.0	89	50 - 150	
Diazinon	nd	0.1		1.1	1.0	114	50 - 150		Propoxur	nd	0.1		1.2	1.0	125	50 - 150	
Dichlorvos	nd	0.5		1.2	1.0	116	50 - 150		Pyrethrins	nd	0.2		1.0	1.0	97	50 - 150	
Dimethoate	nd	0.1		1.2	1.0	118	50 - 150		Pyridaben	nd	0.1		1.1	1.0	109	50 - 150	
Ethoprophos	nd	0.1		1.0	1.0	102	50 - 150		Spinosad A kps	nd	0.1		0.6	1.0	57	50 - 150	
Etofenprox	nd	0.1		1.0	1.0	103	50 - 150		Spinosad D kps	nd	0.1		0.7	1.0	68	50 - 150	
Etoxazole	nd	0.1		1.1	1.0	113	50 - 150		Spiromesifen	nd	0.1		0.9	1.0	94	50 - 150	
Fenoxycarb	nd	0.1		1.0	1.0	98	50 - 150		Spirotetramat	nd	0.1		1.3	1.0	125	50 - 150	
Fenpyroximate	nd	0.1		1.5	1.0	146	50 - 150		Spiroxamine	nd	0.1		0.6	1.0	60	50 - 150	
Fipronil	nd	0.1		1.0	1.0	98	50 - 150		Tebuconazole	nd	0.1		1.0	1.0	97	50 - 150	
Flonicamid	nd	0.1		1.0	1.0	102	50 - 150		Thiacloprid	nd	0.1		1.2	1.0	118	50 - 150	
Fludioxonil	nd	0.1		0.7	1.0	74	50 - 150		Thiamethoxam	nd	0.1		1.4	1.0	143	50 - 150	
Hexythiazox	nd	0.1		1.1	1.0	110	50 - 150		Trifloxystrobin	nd	0.1		1.0	1.0	99	50 - 150	

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**MWBC-NGPW**



## Residual Solvents Sample Data

Solvents Analysis Date: 8/24/2018  
 Solvents Batch ID: RES\_082418A

Method: EPA 5021A  
 Unit: µg/g (ppm)

Pass 

Analyte	ZWM-DNT-TMC	WBG-WMS-BTC	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: 8/24/2018  
 Solvents QC Batch ID: RES\_082418A

Method: EPA 5021A  
 Unit: µg/g (ppm)

### Laboratory Residual Solvent Quality Control Results

Method: EPA 5021A

Units: µg/mL

Batch ID: RES\_082418A

#### Matrix Blank / LCS Results

Analyte	Blank Result	Blank Limit	Notes	LCS Result	LCS Spike	LCS% Rec	Limits	Notes
1,4-Dioxane	< LOQ	50		1042	1000	104	70 - 130	
2-Butanol	< LOQ	50		991	1000	99	70 - 130	
2-Ethoxyethanol	< LOQ	50		1165	1000	117	70 - 130	
Acetone	< LOQ	50		898	1000	90	70 - 130	
Acetonitrile	< LOQ	50		934	1000	93	70 - 130	
Benzene	< LOQ	2		18	20	91	70 - 130	
Butanes								
<i>Butane</i>	< LOQ	50		804	1000	80	70 - 130	
<i>Isobutane</i>	< LOQ	50		820	1000	82	70 - 130	
Cyclohexane	< LOQ	50		912	1000	91	70 - 130	
Ethyl acetate	< LOQ	50		904	1000	90	70 - 130	
Ethyl ether	< LOQ	50		927	1000	93	70 - 130	
Ethylbenzene	< LOQ	50		1068	1000	107	70 - 130	
Ethylene glycol	< LOQ	250		1612	1000	<b>161</b>	70 - 130	ME
Ethylene oxide	< LOQ	50		806	1000	81	70 - 130	
Heptane	< LOQ	50		883	1000	88	70 - 130	
Hexanes								
<i>n-Hexane</i>	< LOQ	50		869	1000	87	70 - 130	
<i>2-Methylpentane</i>	< LOQ	50		853	1000	85	70 - 130	
<i>3-Methylpentane</i>	< LOQ	50		897	1000	90	70 - 130	
<i>2,2-Dimethylbutane</i>	< LOQ	50		893	1000	89	70 - 130	
<i>2,3-Dimethylbutane</i>	< LOQ	50		882	1000	88	70 - 130	
Isopropanol Isopropyl acetate Cumene	< LOQ	50		965	1000	97	70 - 130	
Methanol	< LOQ	50		970	1000	97	70 - 130	
Dichloromethane	< LOQ	50		1111	1000	111	70 - 130	
Pentanes	< LOQ	50		953	1000	95	70 - 130	
<i>Pentane</i>	< LOQ	50		920	1000	92	70 - 130	
<i>Pentane</i>	< LOQ	50		827	1000	83	70 - 130	
<i>Isopentane</i>	< LOQ	50		829	1000	83	70 - 130	
<i>Neopentane</i>	< LOQ	50		888	1000	89	70 - 130	
Propane	< LOQ	50		796	1000	80	70 - 130	
Tetrahydrofuran	< LOQ	50		934	1000	93	70 - 130	
Toluene Xylenes	< LOQ	50		1012	1000	101	70 - 130	
<i>m-Xylene</i>	< LOQ	50		1139	1000	114	70 - 130	
<i>o/p-Xylene</i>	< LOQ	50		1082	1000	108	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