



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



**Report Number:** 20-005322/D09.R01  
**Report Date:** 06/09/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/22/20 16:25

This is an amended version of report# 20-005322/D09.R00.  
 Reason: Results reported in %, mg/g and mg/30ml.

**Customer:** Sentia Wellness  
**Product identity:** Social 500mg CBD Drops Lavender R&D SL GCLDR-05  
**Client/Metric ID:** .  
**Laboratory ID:** 20-005322-0001

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	
CBD	1.88		%		CBD-Total (%) 1.88%
CBDV <sup>1</sup>	0.00363		%		
Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	18.8		mg/1g		CBD-Total per 1g 18.8 mg/1g
CBDV per 1g	0.0363		mg/1g		
Analyte per 30ml	Result	Limits	Units	Status	
CBD per 30ml	615		mg/30ml		CBD-Total per 30ml 615 mg/30ml
CBDV per 30ml	1.19		mg/30ml		
					THC-Total (%) <LOQ
					(Reported in milligrams per serving)

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

#### Metals:

Less than LOQ for all analytes.

#### Microbiology:

Less than LOQ for all analytes.

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**Customer:** Sentia Wellness  
 PO Box 5665  
 Portland Oregon 97228  
 United States

**Product identity:** Social 500mg CBD Drops Lavender R&D SL GCLDR-05

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 20-005322-0001

**Relinquished by:** Alex Grabow

**Temp:** 23 °C

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Batch: 2004527	Analyze: 5/26/20 11:30:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	< LOQ		%	0.0061	
CBD	1.88		%	0.0327	
CBD-A	< LOQ		%	0.0033	
CBD-Total	1.88		%	0.0356	
CBDV†	0.00363		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	< LOQ		%	0.0061	
CBG†	< LOQ		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	< LOQ		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBN	< LOQ		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	< LOQ		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	< LOQ		%	0.0061	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
<b>Total Cannabinoids†</b>	<b>1.88</b>		%		

Potency per 1g	Method J AOAC 2015 V98-6 (mod)	Batch: 2004527	Analyze: 5/26/20 11:30:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0327	
CBC-A per 1g	< LOQ		mg/1g	0.0327	
CBC-Total per 1g	< LOQ		mg/1g	0.0614	
CBD per 1g	18.8		mg/1g	0.327	
CBD-A per 1g	< LOQ		mg/1g	0.0327	
CBD-Total per 1g	18.8		mg/1g	0.356	
CBDV per 1g	0.0363		mg/1g	0.0327	

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Potency per 1g Method J AOAC 2015 V98-6 (mod) Batch: 2004527 Analyze: 5/26/20 11:30:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBDV-A per 1g	< LOQ		mg/1g	0.0327	
CBDV-Total per 1g	< LOQ		mg/1g	0.0610	
CBG per 1g	< LOQ		mg/1g	0.0327	
CBG-A per 1g	< LOQ		mg/1g	0.0327	
CBG-Total per 1g	< LOQ		mg/1g	0.0610	
CBL per 1g	< LOQ		mg/1g	0.0327	
CBN per 1g	< LOQ		mg/1g	0.0327	
Δ8-THC per 1g	< LOQ		mg/1g	0.0327	
Δ9-THC per 1g	< LOQ		mg/1g	0.0327	
THC-A per 1g	< LOQ		mg/1g	0.0327	
THC-Total per 1g	< LOQ		mg/1g	0.0614	
THCV per 1g	< LOQ		mg/1g	0.0327	
THCV-A per 1g	< LOQ		mg/1g	0.0327	
THCV-Total per 1g	< LOQ		mg/1g	0.0614	
<b>Total Cannabinoids 1g<sup>†</sup></b>	<b>18.8</b>		mg/1g		

Potency per 30ml Method J AOAC 2015 V98-6 (mod) Batch: 2004527 Analyze: 5/26/20 11:30:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml	< LOQ		mg/30ml	2.14	
CBC-A per 30ml	< LOQ		mg/30ml	2.14	
CBC-Total per 30ml	< LOQ		mg/30ml	4.01	
CBD per 30ml	615		mg/30ml	10.7	
CBD-A per 30ml	< LOQ		mg/30ml	2.14	
CBD-Total per 30ml	615		mg/30ml	11.6	
CBDV per 30ml	1.19		mg/30ml	1.07	
CBDV-A per 30ml	< LOQ		mg/30ml	2.14	
CBDV-Total per 30ml	< LOQ		mg/30ml	2.00	
CBG per 30ml	< LOQ		mg/30ml	2.14	
CBG-A per 30ml	< LOQ		mg/30ml	2.14	
CBG-Total per 30ml	< LOQ		mg/30ml	3.99	
CBL per 30ml	< LOQ		mg/30ml	2.14	
CBN per 30ml	< LOQ		mg/30ml	2.14	
Δ8-THC per 30ml	< LOQ		mg/30ml	2.14	
Δ9-THC per 30ml	< LOQ		mg/30ml	2.14	
THC-A per 30ml	< LOQ		mg/30ml	2.14	
THC-Total per 30ml	< LOQ		mg/30ml	4.01	
THCV per 30ml	< LOQ		mg/30ml	2.14	
THCV-A per 30ml	< LOQ		mg/30ml	2.14	
THCV-Total per 30ml	< LOQ		mg/30ml	4.01	
<b>Total Cannabinoids 30ml<sup>†</sup></b>	<b>616</b>		mg/30ml		

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Density	1.09		g/ml			05/27/20	Client Provided	

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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2004347	05/28/20	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ		cfu/g	10	2004346	05/28/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2004346	05/28/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2004345	05/28/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2004345	05/28/20	AOAC 2014.05 (RAPID)	X
Salmonella spp.	Negative		/10g		2004337	05/27/20	AOAC 2016.01	X

Solvents		Method EPA5021A				Units µg/g	Batch 2004344	Analyze 05/26/20 11:30 AM			
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		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol <sup>l</sup>	< LOQ		200		
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	150	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		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	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 2004485 Analyze 05/29/20 12:49 PM											
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	0.200	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	< 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	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< 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							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes		
Arsenic	< LOQ		mg/kg	0.0352	2004635	05/29/20	AOAC 2013.06 (mod.)	X		
Cadmium	< LOQ		mg/kg	0.0352	2004635	05/29/20	AOAC 2013.06 (mod.)	X		
Lead	< LOQ		mg/kg	0.0352	2004635	05/29/20	AOAC 2013.06 (mod.)	X		
Mercury	< LOQ		mg/kg	0.0176	2004635	05/29/20	AOAC 2013.06 (mod.)	X		

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These test results are representative of the individual sample selected and submitted by the client.

**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.

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1g = Milligram per 1g

mg/30ml = Milligram per 30ml

/10g = Per 10 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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SENTIAWELL 20-005322  
 Sentia Wellness

**Hemp Products**  
**Chain of Custody Record**  
 00 Control#: CF002 Rev: 02/27/2020 Eff: 02/27/2020  
 ORELAP ID: **OR100028**

20-005322

Company: Sentia Wellness Contact: Erin Harbacek Street: Sandy Location City: Portland State: OR Zip: 97230 Email Results: erin.harbacek@sentiawellness.com Ph: ( ) Fx Results: ( )			Analysis Requested					PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turn-around time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * *Ask for availability			
Billing (if different):			Potency <i>Canna</i>	Pesticides (OR 59) <i>Canna</i>	Residual Solvents <i>Canna</i>	Heavy Metals <i>Canna</i>	Microbiology	Sampled by: _____			
Lab ID	Client Sample Identification	Date						Sample Type †	Report units (potency)	Serving size (edibles)	Comments/Metric ID
1	Social 500mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	Drops reporting units: %, mg/g, mg/container
2	Lavender R&D SL GCLDR-05		✓	✓	✓	✓	✓	T	%	60mL	Micro: APC, Y&M, Ecoli/coliform, Salmonella spp
3	Social 1000mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
4	Lavender R&D SL GCLDR-01		✓	✓	✓	✓	✓	T	%	60mL	
5	Social 500mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
6	Peppermint R&D SL GCLDR-0		✓	✓	✓	✓	✓	T	%	60mL	
7	Social 1000mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
8	Peppermint R&D SL GCLDR-0		✓	✓	✓	✓	✓	T	%	60mL	
9	Social 500mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
10	Unflavored R&D SL GCLDR-0		✓	✓	✓	✓	✓	T	%	60mL	
Relinquished By: Alex Grabau		Date: 5/22	Time: 4:25 pm		Received by: Jmu		Date: 5-22-20		Time: 16:25		Lab Use Only:
<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> yes   <input type="checkbox"/> No - Temp (°C): 23.0 Sample in good condition: <input type="checkbox"/> yes   <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Prelog storage: _____											

† - Sample type codes: Topicals (T); Edibles (E); Tincture (T); Bath Salts (S); Beverages (B)  
 Report unit options: % ; mg/g ; mg/serving

Samples submitted to CL with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

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P: (503) 254-1794 | Fax: (503) 254-1452  
 info@columbiaboratories.com

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**Hemp Products  
Chain of Custody Record**

Revision: 0.00 Control#: CF002 Rev: 02/27/2020 Eff: 02/27/2020  
ORELAP ID: OR100028

20-005322

Company: <u>Sentia Wellness</u>			Analysis Requested					PO Number: _____			
Contact: <u>Erin Harbacek</u>			Potency <u>Canna</u>	Pesticides (OR 59) <u>Canna</u>	Residual Solvents <u>Canna</u>	Heavy Metals <u>Canna</u>	Microbiology	Project Number: _____			
Street: <u>Sandy Location</u>								Project Name: _____			
City: <u>Portland</u> State: <u>OR</u> Zip: <u>97230</u>								Custom Reporting: _____			
Email Results: <u>erin.harbacek@sentiawellness.com</u>								Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____			
Ph: ( ) _____ Fx Results: ( ) _____								Turn-around time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * *Ask for availability			
Billing (if different):			Sampled by: _____					Sample Type: _____	Report units (potency): _____	Serving size (edibles): _____	Comments/Metric ID Drops reporting units: %, mg/g, mg/container Micro: APC, Y&M, Ecoli/coliform, Salmonella spp
Lab ID	Client Sample Identification	Date									
6	Social 1000mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
	Unflavored R&D SL GCLDR-04										
7	Social 500mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
	Lemon Ginger R&D SL GCLDF										
8	Social 1000mg CBD Drops		✓	✓	✓	✓	✓	T	%	60mL	
	Lemon Ginger R&D SL GCLDF										
9	Select 1000mg Hemp Drops		✓	✓	✓	✓	✓	T	%	60mL	
	Lemon Ginger R&D SL LDR-27										
Relinquished By: <u>Alex Grabow</u>		Date: <u>5/22</u>	Time: <u>4:25 PM</u>	Received by: <u>JMU</u>		Date: <u>5-22-20</u>	Time: <u>16:25</u>	Lab Use Only:			
								<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> yes   <input type="checkbox"/> No - Temp (°C): <u>23.0</u> Sample in good condition: <input type="checkbox"/> yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Prelog storage: _____			

\* - Sample type codes: Topicals (L); Edibles (E); Tincture (T); Bath Salts (S); Beverages (B)  
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12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 20-005322/D09.R01  
**Report Date:** 06/09/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/22/20 16:25

Laboratory Quality Control Results

EPA 5021				Batch ID: 2004344					
Method Blank		Laboratory Control Sample							
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		1280	1,190	µg/g	107.6	70 - 130	
Isobutane	ND	< 200		1630	1,520	µg/g	107.2	70 - 130	
Butane	ND	< 200		1670	1,520	µg/g	109.9	70 - 130	
2,2-Dimethylpropane	ND	< 200		2040	1,910	µg/g	106.8	70 - 130	
Methanol	ND	< 200		3550	3,210	µg/g	110.6	70 - 130	
Ethylene Oxide	ND	< 30		130	117	µg/g	111.1	70 - 130	
2-Methylbutane	ND	< 200		3560	3,200	µg/g	111.3	70 - 130	
Pentane	ND	< 200		3610	3,210	µg/g	112.5	70 - 130	
Ethanol	ND	< 200		3560	3,220	µg/g	110.6	70 - 130	
Ethyl Ether	ND	< 200		3520	3,210	µg/g	109.7	70 - 130	
2,2-Dimethylbutane	ND	< 30		349	338	µg/g	103.3	70 - 130	
Acetone	ND	< 200		3600	3,230	µg/g	111.5	70 - 130	
2-Propanol	ND	< 200		3600	3,220	µg/g	111.8	70 - 130	
Acetonitrile	ND	< 100		1060	986	µg/g	107.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		410	333	µg/g	123.1	70 - 130	
Dichloromethane	ND	< 200		1050	990	µg/g	106.1	70 - 130	
2-Methylpentane	ND	< 30		323	329	µg/g	98.2	70 - 130	
3-Methylpentane	ND	< 30		354	328	µg/g	107.9	70 - 130	
Hexane	ND	< 30		354	322	µg/g	109.9	70 - 130	
Ethyl acetate	ND	< 200		3650	3,220	µg/g	113.4	70 - 130	
2-Butanol	ND	< 200		3660	3,200	µg/g	114.4	70 - 130	
Tetrahydrofuran	ND	< 100		1080	966	µg/g	111.8	70 - 130	
Cyclohexane	ND	< 200		3530	3,210	µg/g	110.0	70 - 130	
Benzene	ND	< 1		43.6	40.6	µg/g	107.4	70 - 130	
Isopropyl Acetate	ND	< 200		3690	3,210	µg/g	115.0	70 - 130	
Heptane	ND	< 200		3680	3,210	µg/g	114.6	70 - 130	
1,4-Dioxane	ND	< 100		1080	969	µg/g	111.5	70 - 130	
2-Ethoxyethanol	ND	< 30		380	331	µg/g	114.8	70 - 130	
Ethylene Glycol	ND	< 200		918	976	µg/g	94.1	70 - 130	
Toluene	ND	< 200		1110	964	µg/g	115.1	70 - 130	
Ethylbenzene	ND	< 200		2330	1,930	µg/g	120.7	70 - 130	
m,p-Xylene	ND	< 200		2320	1,940	µg/g	119.6	70 - 130	
o-Xylene	ND	< 200		2360	1,940	µg/g	121.6	70 - 130	
Cumene	ND	< 30		390	322	µg/g	121.1	70 - 130	

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QC - Sample Duplicate

Sample ID: 20-005022-0002

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	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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**Report Date:** 06/09/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/22/20 16:25

Revision: 1.00 Control: CFL-C21  
 Revised: 08/12/2019 Effective: 08/15/2019

**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2004485				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.009	< 0.200		1.089	1.000	108.9	70.6 - 119	
Acequinocyl	0.173	< 1.000		4.073	4.000	101.8	78.7 - 116	
Acetamiprid	0.000	< 0.100		0.438	0.400	109.5	81.0 - 115	
Aldicarb	0.000	< 0.200		0.873	0.800	109.1	77.0 - 119	
Abamectin	0.000	< 0.288		1.067	1.000	106.7	75.3 - 122	
Azoxystrobin	0.023	< 0.100		0.425	0.400	106.4	72.6 - 123	
Bifenazate	0.006	< 0.100		0.448	0.400	111.9	83.0 - 113	
Bifenthrin	0.014	< 0.100		0.449	0.400	112.2	79.9 - 117	
Boscalid	0.000	< 0.100		0.873	0.800	109.1	76.3 - 126	
Carbaryl	0.003	< 0.100		0.447	0.400	111.8	80.7 - 116	
Carbofuran	0.014	< 0.100		0.436	0.400	109.0	81.6 - 117	
Chlorantraniliprol	0.007	< 0.100		0.423	0.400	105.6	76.7 - 124	
Chlorfenapyr	0.000	< 1.000		2.023	2.000	101.2	67.4 - 125	
Chlorpyrifos	0.000	< 0.100		0.449	0.400	112.2	68.4 - 120	
Clofentezine	0.009	< 0.100		0.430	0.400	107.5	66.0 - 123	
Cyfluthrin	0.000	< 1.000		2.211	2.000	110.5	70.6 - 127	
Cypermethrin	0.009	< 1.000		2.185	2.000	109.3	80.4 - 117	
Daminozide	0.026	< 1.000		2.092	2.000	104.6	74.7 - 119	
Diazinon	0.007	< 0.100		0.439	0.400	109.7	78.9 - 116	
Dichlorvos	0.006	< 0.500		2.144	2.000	107.2	76.7 - 114	
Dimethoat	0.006	< 0.100		0.445	0.400	111.3	80.0 - 114	
Ethoprophos	0.000	< 0.100		0.428	0.400	106.9	68.4 - 127	
Etofenprox	0.051	< 0.100		0.838	0.800	104.7	82.6 - 116	
Etoxazol	0.010	< 0.100		0.413	0.400	103.2	79.8 - 116	
Fenoxycarb	0.007	< 0.100		0.430	0.400	107.6	82.7 - 113	
Fenpyroximat	0.016	< 0.100		0.895	0.800	111.9	84.5 - 111	Q1
Fipronil	0.016	< 0.100		0.808	0.800	101.1	78.5 - 118	
Flonicamid	0.000	< 0.400		1.107	1.000	110.7	79.0 - 118	
Fludoxonil	0.000	< 0.100		0.890	0.800	111.2	72.3 - 134	
Hexythiazox	0.015	< 0.400		1.134	1.000	113.4	82.4 - 115	
Imazalil	0.005	< 0.100		0.448	0.400	112.0	78.4 - 124	
Imidacloprid	0.022	< 0.200		0.883	0.800	110.3	78.4 - 115	
Kresoxim-Methyl	0.004	< 0.100		0.875	0.800	109.3	75.7 - 123	
Malathion	0.006	< 0.100		0.423	0.400	105.7	77.2 - 118	
Metaxalyl	0.000	< 0.100		0.431	0.400	107.6	75.7 - 120	
Methiocarb	0.030	< 0.100		0.453	0.400	113.4	78.7 - 119	
Methomyl	0.000	< 0.200		0.868	0.800	108.5	72.4 - 123	
MGK 264	0.000	< 0.100		0.425	0.400	106.2	79.5 - 116	
Myclobutanil	0.000	< 0.100		0.423	0.400	105.8	83.5 - 113	
Naled	0.033	< 0.200		1.099	1.000	109.9	72.7 - 123	
Oxamyl	0.000	< 0.400		2.030	2.000	101.5	71.3 - 124	
Paclobutrazol	0.000	< 0.200		0.868	0.800	108.5	81.6 - 115	
Parathion Methyl	0.000	< 0.200		0.760	0.800	95.0	68.0 - 126	
Permethrin	0.015	< 0.100		0.427	0.400	106.7	80.1 - 115	
Phosmet	0.006	< 0.100		0.449	0.400	112.2	81.8 - 115	
Piperonyl butoxide	0.036	< 1.000		2.200	2.000	110.0	83.8 - 119	
Prallethrin	0.001	< 0.200		0.430	0.400	107.6	69.8 - 130	
Propiconazole	0.003	< 0.200		0.859	0.800	107.4	82.5 - 113	
Propoxur	0.013	< 0.100		0.429	0.400	107.1	82.0 - 112	
Pyrethrins	0.008	< 0.500		0.416	0.413	100.8	69.9 - 130	
Pyridaben	0.000	< 0.100		0.459	0.400	114.7	80.5 - 122	
Spinosad	0.000	< 0.100		0.446	0.388	114.9	84.2 - 121	
Spiromesifen	0.000	< 0.100		0.414	0.400	103.5	68.5 - 127	
Spirotetramat	0.009	< 0.100		0.429	0.400	107.2	81.2 - 115	
Spiroxamine	0.022	< 0.100		0.868	0.800	108.5	79.4 - 116	
Tebuconazol	0.008	< 0.200		0.871	0.800	108.9	79.4 - 117	
Thiadoprid	0.008	< 0.100		0.430	0.400	107.5	80.1 - 115	
Thiamethoxam	0.000	< 0.100		0.442	0.400	110.5	71.8 - 125	
Trifloxystrobin	0.009	< 0.100		0.432	0.400	108.0	80.4 - 115	



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Revision: 1.00 Control: CFL-C21  
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2004485			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 20-005206-0001								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	1.164	1.141	1.000	2.0	< 30	116.4	114.1	50 - 150	
Acequinocyl	0.000	4.261	4.264	4.000	0.1	< 30	106.5	106.6	50 - 150	
Acetamidiprid	0.000	0.440	0.443	0.400	0.7	< 30	110.0	110.8	50 - 150	
Aldicarb	0.000	0.877	0.874	0.800	0.3	< 30	109.6	109.2	50 - 150	
Abamectin	0.000	1.424	1.426	1.000	0.2	< 30	142.4	142.6	50 - 150	
Azoxystrobin	0.000	0.462	0.428	0.400	7.7	< 30	115.4	106.9	50 - 150	
Bifenazate	0.000	0.438	0.427	0.400	2.7	< 30	109.5	106.7	50 - 150	
Bifenthrin	0.000	0.654	0.653	0.400	0.2	< 30	163.5	163.1	50 - 150	Q1
Boscalid	0.000	0.860	0.948	0.800	9.7	< 30	107.6	118.6	50 - 150	
Carbaryl	0.000	0.465	0.465	0.400	0.1	< 30	116.1	116.2	50 - 150	
Carbofuran	0.000	0.464	0.475	0.400	2.5	< 30	115.9	118.9	50 - 150	
Chlorantraniliprol	0.000	0.427	0.435	0.400	1.7	< 30	106.9	108.7	50 - 150	
Chlorfenapyr	0.000	2.700	2.947	2.000	8.8	< 30	135.0	147.4	50 - 150	
Chlorpyrifos	0.000	0.428	0.418	0.400	2.3	< 30	107.0	104.6	50 - 150	
Clofentezine	0.000	0.496	0.501	0.400	1.0	< 30	124.0	125.2	50 - 150	
Cyfluthrin	0.000	2.292	2.529	2.000	9.9	< 30	114.6	126.5	30 - 150	
Cypermethrin	0.000	2.592	2.746	2.000	5.8	< 30	129.6	137.3	50 - 150	
Daminozide	0.000	2.068	2.065	2.000	0.1	< 30	103.4	103.3	30 - 150	
Diazinon	0.000	0.500	0.484	0.400	3.2	< 30	125.0	121.1	50 - 150	
Dichlorvos	0.000	2.277	2.339	2.000	2.7	< 30	113.8	117.0	50 - 150	
Dimethoat	0.000	0.435	0.447	0.400	2.7	< 30	108.8	111.7	50 - 150	
Ethoprophos	0.000	0.434	0.423	0.400	2.7	< 30	108.6	105.7	50 - 150	
Etofenprox	0.000	0.941	1.005	0.800	6.6	< 30	117.6	125.6	50 - 150	
Etoazol	0.000	0.414	0.424	0.400	2.4	< 30	103.4	106.0	50 - 150	
Fenoxycarb	0.000	0.450	0.458	0.400	1.8	< 30	112.5	114.5	50 - 150	
Fenpyroximat	0.000	0.961	1.035	0.800	7.4	< 30	120.1	129.4	50 - 150	
Fipronil	0.000	0.956	0.980	0.800	2.5	< 30	119.5	122.5	50 - 150	
Fonicamid	0.000	1.175	1.144	1.000	2.7	< 30	117.5	114.4	50 - 150	
Fludioxonil	0.000	0.838	0.864	0.800	3.1	< 30	104.7	108.0	50 - 150	
Hexythiazox	0.000	2.024	2.063	1.000	1.9	< 30	202.4	206.3	50 - 150	Q1
Imazali	0.000	0.416	0.443	0.400	6.3	< 30	104.1	110.9	50 - 150	
Imidacloprid	0.000	0.956	0.924	0.800	3.4	< 30	119.5	115.5	50 - 150	
Kresoxim-Methyl	0.000	0.886	0.926	0.800	4.4	< 30	110.8	115.7	50 - 150	
Malathion	0.000	0.525	0.505	0.400	3.9	< 30	131.2	126.2	50 - 150	
Metaxalyl	0.000	0.451	0.468	0.400	3.6	< 30	112.9	117.0	50 - 150	
Methiocarb	0.000	0.448	0.485	0.400	8.1	< 30	111.9	121.4	50 - 150	
Methomyl	0.000	0.819	0.812	0.800	0.9	< 30	102.4	101.5	50 - 150	
MGK 264	0.000	0.513	0.503	0.400	1.8	< 30	128.2	125.9	50 - 150	
Myclobutanil	0.000	0.425	0.429	0.400	1.0	< 30	106.3	107.3	50 - 150	
Naled	0.000	1.157	1.160	1.000	0.3	< 30	115.7	116.0	50 - 150	
Oxamyl	0.000	1.893	1.884	2.000	0.4	< 30	94.6	94.2	50 - 150	
Paclobutrazol	0.000	0.917	0.929	0.800	1.3	< 30	114.6	116.1	50 - 150	
Parathion Methyl	0.000	0.936	0.811	0.800	14.2	< 30	116.9	101.4	30 - 150	
Permethrin	0.000	0.516	0.536	0.400	3.8	< 30	129.0	133.9	50 - 150	
Phosmet	0.000	0.429	0.449	0.400	4.7	< 30	107.2	112.3	50 - 150	
Piperonyl butoxide	0.000	2.363	2.297	2.000	2.9	< 30	118.2	114.8	50 - 150	
Prallethrin	0.000	0.621	0.626	0.400	0.8	< 30	155.4	156.6	50 - 150	Q1
Propiconazole	0.000	0.884	0.926	0.800	4.6	< 30	110.5	115.8	50 - 150	
Propoxur	0.000	0.435	0.451	0.400	3.8	< 30	108.7	112.9	50 - 150	
Pyrethrins	0.000	0.502	0.509	0.413	1.3	< 30	121.6	123.2	50 - 150	
Pyridaben	0.000	0.473	0.489	0.400	3.4	< 30	118.2	122.2	50 - 150	
Spinosad	0.000	0.416	0.430	0.388	3.2	< 30	107.3	110.8	50 - 150	
Spiromesifen	0.000	0.243	0.233	0.400	4.0	< 30	60.7	58.3	50 - 150	
Spirotetramat	0.000	0.416	0.431	0.400	3.6	< 30	103.9	107.7	50 - 150	
Spiroxamine	0.000	0.831	0.836	0.800	0.6	< 30	103.9	104.5	50 - 150	
Tebuconazol	0.000	0.914	0.918	0.800	0.4	< 30	114.3	114.7	50 - 150	
Thiadoprid	0.000	0.443	0.435	0.400	1.9	< 30	110.8	108.7	50 - 150	
Thiamethoxam	0.000	0.450	0.423	0.400	6.3	< 30	112.5	105.7	50 - 150	
Trifloxystrobin	0.000	0.463	0.455	0.400	1.1	< 30	115.7	113.8	50 - 150	

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**Report Number:** 20-005322/D09.R01  
**Report Date:** 06/09/2020  
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**Purchase Order:**  
**Received:** 05/22/20 16:25

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	Quantitation 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.