



Sample Information

Test Date:	Oct 12, 2020, 12:41 PM	Sample Type:	Topicals
Sample / Strain Name:	WO Gel 500 mg	IL Unique ID:	ILCTS376-1
Lot # / Batch ID:	09J20137		
Sample Description:	Orange cream		
Notes:	Unit weight is 90 grams per 3 oz bottle		
Analyst Name:	Enrique Orci IV	Reviewer Name:	Ted Barton
Analyst Signature:	<i>Enrique Orci IV</i>	Reviewer Signature:	<i>Ted Barton</i>

Cannabinoid Potency and Profile

Cannabinoid	Result (%)	Result (mg/g)	mg / 3 oz
CBDV	N/D	N/D	N/D
CBDVA	N/D	N/D	N/D
THCV	0.02%	0.23	20.31
CBD	0.60%	6.05	544.06
CBG	N/D	N/D	N/D
CBDA	N/D	N/D	N/D
CBGA	N/D	N/D	N/D
CBN	N/D	N/D	N/D
THCD9	N/D	N/D	N/D
THCD8	N/D	N/D	N/D
CBC	N/D	N/D	N/D
CBNA	N/D	N/D	N/D
THCA	0.01%	0.11	9.87
CBCA	N/D	N/D	N/D
Totals	0.64%	6.38	574.24



Total THC %	0.01%
Total THC mg / 3 oz	8.66
Total CBD %	0.60%
Total CBD mg / 3 oz	544.06



THC Total = % of THCD9 + (% of THCA x 0.877), CBD Total = % of CBD + (% of CBDA x 0.877), CBG Total = % of CBG + (% of CBGA x 0.876), CBN Total = % of CBN + (% of CBNA x 0.876), CBC Total = % of CBC + (% of CBCA x 0.877), CBDV Total = % of CBDV + (% of CBDVA x 0.867), N/D = Not Detected

Testing results are based solely upon the samples submitted to Ionization Labs, LLC. Ionization Labs warrants that all analytical work is conducted in accordance with all applicable standard laboratory practices using validated methods. This report may not be reproduced without the written consent of Ionization Labs.

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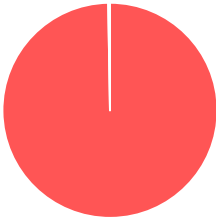
Report Number: 20-010425/D03.R00
Report Date: 10/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 09/28/20 10:43

Customer: Deschutes Labs
Product identity: 1060418-2020-NT-59-ISO-01
Client/Metric ID: .
Laboratory ID: 20-010425-0001

Sample Date: 09/25/20 13:57

Summary

Potency:

Analyte	Result (%)		
CBD	> 98.0		
CBDV†	0.276		
		CBD-Total	> 98.0%
		THC-Total	<LOQ
		(Reported in percent of total sample)	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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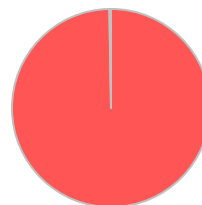
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Customer: Deschutes Labs

Product identity: 1060418-2020-NT-59-ISO-01
Client/Metric ID: .
Sample Date: 09/25/20 13:57
Laboratory ID: 20-010425-0001
Relinquished by: Received By Mail
Temp: 20 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Batch: 2008111	Analyze: 10/1/20 7:15:00 PM
Analyte	As Received	Dry weight	LOQ	Notes	
CBC	< LOQ		0.0927		
CBC-A†	< LOQ		0.0927		
CBC-Total†	< LOQ		0.174		
CBD	> 98.0		0.927		
CBD-A	< LOQ		0.0927		
CBD-Total	> 98.0		1.01		
CBDV†	0.276		0.0927		
CBDV-A†	< LOQ		0.0927		
CBDV-Total†	0.276		0.173		
CBG†	< LOQ		0.0927		
CBG-A†	< LOQ		0.0927		
CBG-Total	< LOQ		0.173		
CBL†	< LOQ		0.0927		
CBN	< LOQ		0.0927		
Δ8-THC†	< LOQ		0.0927		
Δ9-THC	< LOQ		0.0927		
THC-A	< LOQ		0.0927		
THC-Total	< LOQ		0.174		
THCV†	< LOQ		0.0927		
THCV-A†	< LOQ		0.0927		
THCV-Total†	< LOQ		0.173		
Total Cannabinoids†	> 98.0				



● CBD
● CBDV



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Solvents						Method EPA5021A	Units µg/g	Batch 2007980	Analyze 09/29/20 09:59 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		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 2008049		Analyze 09/30/20 04:56 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		Flonicamid	< 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	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0411	2008092	10/01/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0205	2008092	10/01/20	AOAC 2013.06 (mod.)	X	

Purity									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Chemical Purity	98.8		%		2008035	09/30/20	Purity by FID		

Mass-balance purity assay performed by GC-FID. The reported result is accurate within an expanded uncertainty of $\pm 0.3\%$ (w/w).



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Purchase Order:
Received: 09/28/20 10:43

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

µg/g = Microgram per gram

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

% = 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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Columbia Laboratories
Sample Receipt Form

Revision: 1.01 Document Control: CF015
Revised: 02/28/2020 Effective: 02/28/2020

Job Number: 20-010425

Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 9-28-20 Time: 10:43

Received By (Initials): JV

- 1) Were custody seals on outside of the package/cooler?
If YES, how many and where? _____ YES NO NA
- Were signature and date correct? _____ YES NO NA
- 2) Were custody papers included in the package/cooler? YES NO NA
- 3) Were custody papers properly filled out (ink, sign, date)? YES NO NA
- 4) Did you sign custody papers in the appropriate place? YES NO NA
- 5) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 104 E64 03 9794

- 6) Was packing material used? YES NO NA 5366
- Peanuts Bubble Wrap Foam Paper Other: _____
- 7) Was sufficient ice used (if appropriate)?
What kind? YES NO NA
- Blue Ice Ice Cooler Packs Dry Ice
- 8) Were all sample containers sealed in separate plastic bags? YES NO NA
- 9) Did all sample containers arrive in good condition? YES NO NA
- 10) Were all sample container labels complete? YES NO NA
- 11) Did all sample container labels and tags agree with the coc? YES NO NA
- 12) Were correct sample containers used for the tests indicated? YES NO NA
- 13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA
- 14) Was a sufficient amount of sample sent in each sample container? YES NO NA
- 15) Temperature of the samples upon receipt (See SOP for proper temps) 20.0°C
- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

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Received: 09/28/20 10:43

Laboratory Quality Control Results										
EPA 5021				Batch ID: 2007980						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		1100	1,190	µg/g	92.4	70 - 130		
Isobutane	ND	< 200		1390	1,520	µg/g	91.4	70 - 130		
Butane	ND	< 200		1410	1,520	µg/g	92.8	70 - 130		
2,2-Dimethylpropane	ND	< 200		1720	1,910	µg/g	90.1	70 - 130		
Methanol	ND	< 200		3000	3,240	µg/g	92.6	70 - 130		
Ethylene Oxide	ND	< 30		113	117	µg/g	96.6	70 - 130		
2-Methylbutane	ND	< 200		2990	3,220	µg/g	92.9	70 - 130		
Pentane	ND	< 200		2960	3,210	µg/g	92.2	70 - 130		
Ethanol	ND	< 200		2850	3,220	µg/g	88.5	70 - 130		
Ethyl Ether	ND	< 200		3010	3,260	µg/g	92.3	70 - 130		
2,2-Dimethylbutane	ND	< 30		380	431	µg/g	88.2	70 - 130		
Acetone	ND	< 200		3040	3,210	µg/g	94.7	70 - 130		
2-Propanol	ND	< 200		2780	3,180	µg/g	87.4	70 - 130		
Acetonitrile	ND	< 100		920	983	µg/g	93.6	70 - 130		
2,3-Dimethylbutane	ND	< 30		307	373	µg/g	82.3	70 - 130		
Dichloromethane	ND	< 200		926	1,010	µg/g	91.7	70 - 130		
2-Methylpentane	ND	< 30		285	330	µg/g	86.4	70 - 130		
3-Methylpentane	ND	< 30		303	342	µg/g	88.6	70 - 130		
Hexane	ND	< 30		287	321	µg/g	89.4	70 - 130		
Ethyl acetate	ND	< 200		3000	3,260	µg/g	92.0	70 - 130		
2-Butanol	ND	< 200		2720	3,210	µg/g	84.7	70 - 130		
Tetrahydrofuran	ND	< 100		878	982	µg/g	89.4	70 - 130		
Cyclohexane	ND	< 200		2950	3,210	µg/g	91.9	70 - 130		
Benzene	ND	< 1		47.3	55.4	µg/g	85.4	70 - 130		
Isopropyl Acetate	ND	< 200		2810	3,200	µg/g	87.8	70 - 130		
Heptane	ND	< 200		3080	3,210	µg/g	96.0	70 - 130		
1,4-Dioxane	ND	< 100		871	1,010	µg/g	86.2	70 - 130		
2-Ethoxyethanol	ND	< 30		496	681	µg/g	72.8	70 - 130		
Ethylene Glycol	ND	< 200		965	1,170	µg/g	82.5	70 - 130		
Toluene	ND	< 200		867	980	µg/g	88.5	70 - 130		
Ethylbenzene	ND	< 200		1660	1,970	µg/g	84.3	70 - 130		
m,p-Xylene	ND	< 200		1700	1,950	µg/g	87.2	70 - 130		
o-Xylene	ND	< 200		1700	1,940	µg/g	87.6	70 - 130		
Cumene	ND	< 30		298	336	µg/g	88.7	70 - 130		



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QC - Sample Duplicate

Sample ID: 20-010197-0001

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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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: 2008049			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.025	< 0.200		0.935	1.000	93.5	68.1 - 126	
Acequinocyl	0.041	< 1.000		3.664	4.000	91.6	69.5 - 129	
Acetamiprid	0.000	< 0.100		0.374	0.400	93.6	69.0 - 128	
Aldicarb	0.000	< 0.200		0.705	0.800	88.1	67.8 - 126	
Abamectin	0.000	< 0.288		0.774	1.000	77.4	69.1 - 128	
Azoxystrobin	0.012	< 0.100		0.362	0.400	90.5	68.9 - 128	
Bifenazate	0.009	< 0.100		0.378	0.400	94.6	68.1 - 126	
Bifenthrin	0.019	< 0.100		0.376	0.400	94.1	71.1 - 132	
Boscalid	0.084	< 0.100		0.735	0.800	91.8	68.5 - 127	
Carbaryl	0.013	< 0.100		0.383	0.400	95.9	69.4 - 129	
Carbofuran	0.017	< 0.100		0.380	0.400	95.0	69.1 - 128	
Chlorantraniliprol	0.022	< 0.100		0.370	0.400	92.4	69.5 - 129	
Chlorfenapyr	0.000	< 1.000		1.714	2.000	85.7	68.1 - 126	
Chlorpyrifos	0.000	< 0.100		0.375	0.400	93.6	68.9 - 128	
Clofentezine	0.019	< 0.100		0.370	0.400	92.5	67.0 - 124	
Cyfluthrin	0.000	< 1.000		1.530	2.000	76.5	71.1 - 132	
Cypermethrin	0.004	< 1.000		1.794	2.000	89.7	71.3 - 132	
Daminozide	0.046	< 1.000		1.835	2.000	91.8	66.0 - 123	
Diazinon	0.008	< 0.100		0.382	0.400	95.6	68.3 - 127	
Dichlorvos	0.045	< 0.500		1.824	2.000	91.2	68.0 - 126	
Dimethoat	0.007	< 0.100		0.382	0.400	95.5	68.6 - 127	
Ethoprophos	0.000	< 0.100		0.361	0.400	90.4	67.9 - 126	
Etofenprox	0.017	< 0.100		0.752	0.800	94.0	68.9 - 128	
Etoxazol	0.000	< 0.100		0.371	0.400	92.8	68.3 - 127	
Fenoxycarb	0.009	< 0.100		0.380	0.400	94.9	68.8 - 128	
Fenpyroximat	0.008	< 0.100		0.794	0.800	99.2	70.2 - 130	
Fipronil	0.014	< 0.100		0.720	0.800	90.0	71.4 - 133	
Flonicamid	0.000	< 0.400		0.936	1.000	93.6	69.4 - 129	
Fludioxonil	0.000	< 0.100		0.914	0.800	114.3	69.2 - 128	
Hexythiazox	0.021	< 0.400		0.982	1.000	98.2	71.0 - 132	
Imazalil	0.006	< 0.100		0.408	0.400	102.1	71.6 - 133	
Imidacloprid	0.003	< 0.200		0.728	0.800	91.0	67.8 - 126	
Kresoxim-Methyl	0.034	< 0.100		0.726	0.800	90.7	69.1 - 128	
Malathion	0.008	< 0.100		0.377	0.400	94.3	68.8 - 128	
Metaxalyl	0.010	< 0.100		0.351	0.400	87.8	68.2 - 127	
Methiocarb	0.062	< 0.100		0.407	0.400	101.7	68.7 - 128	
Methomyl	0.091	< 0.200		0.790	0.800	98.7	67.7 - 126	
MGK 264	0.009	< 0.100		0.366	0.400	91.5	69.8 - 130	
Myclobutanil	0.020	< 0.100		0.389	0.400	97.3	67.7 - 126	
Naled	0.034	< 0.200		0.967	1.000	96.7	68.7 - 128	
Oxamyl	0.000	< 0.400		1.838	2.000	91.9	67.7 - 126	
Paclobutrazol	0.036	< 0.200		0.751	0.800	93.9	67.5 - 125	
Parathion Methyl	0.000	< 0.200		0.849	0.800	106.2	71.4 - 133	
Permethrin	0.023	< 0.100		0.372	0.400	93.1	70.2 - 130	
Phosmet	0.004	< 0.100		0.397	0.400	99.3	69.2 - 128	
Piperonyl butoxide	0.125	< 1.000		1.916	2.000	95.8	69.9 - 130	
Prallethrin	0.146	< 0.200		0.450	0.400	112.4	70.5 - 131	
Propiconazole	0.008	< 0.200		0.791	0.800	98.9	68.8 - 128	
Propoxur	0.017	< 0.100		0.381	0.400	95.3	68.0 - 126	
Pyrethrins	0.174	< 0.500		0.408	0.413	98.8	69.9 - 130	
Pyridaben	0.000	< 0.100		0.397	0.400	99.2	74.7 - 139	
Spinosad	0.000	< 0.100		0.410	0.388	105.6	75.8 - 141	
Spiromesifen	0.035	< 0.100		0.381	0.400	95.4	69.2 - 129	
Spirotetramat	0.009	< 0.100		0.375	0.400	93.8	69.0 - 128	
Spiroxamine	0.021	< 0.100		0.759	0.800	94.9	68.8 - 128	
Tebuconazol	0.009	< 0.200		0.733	0.800	91.6	68.3 - 127	
Thiacloprid	0.000	< 0.100		0.371	0.400	92.7	68.3 - 127	
Thiamethoxam	0.000	< 0.100		0.404	0.400	100.9	67.9 - 126	
Trifloxystrobin	0.004	< 0.100		0.394	0.400	98.6	69.3 - 129	



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Portland, OR 97230
503-254-1794



Report Number: 20-010425/D03.R00
Report Date: 10/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 09/28/20 10:43

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: 2008049										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 20-010263-0004										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.019	1.001	0.890	1.000	11.8	< 30	98.2	87.0	50 - 150	
Acequinocyl	0.000	3.878	1.997	4.000	64.0	< 30	96.9	49.9	50 - 150	R,Q
Acetamiprid	0.000	0.371	0.330	0.400	11.6	< 30	92.6	82.5	50 - 150	
Aldicarb	0.000	0.582	0.332	0.800	54.8	< 30	72.8	41.5	50 - 150	R,Q
Abamectin	0.000	1.499	1.403	1.000	6.6	< 30	149.9	140.3	50 - 150	
Azoxystrobin	0.010	0.494	0.472	0.400	4.5	< 30	120.9	115.5	50 - 150	
Bifenazate	0.000	0.373	0.353	0.400	5.5	< 30	93.1	88.2	50 - 150	
Bifenthrin	0.000	0.733	0.850	0.400	14.8	< 30	183.2	212.6	50 - 150	Q1
Boscalid	0.063	0.952	0.721	0.800	27.5	< 30	111.1	82.3	50 - 150	
Carbaryl	0.012	0.396	0.336	0.400	16.3	< 30	96.0	81.1	50 - 150	
Carbofuran	0.014	0.419	0.359	0.400	15.3	< 30	101.3	86.4	50 - 150	
Chlorantraniliprol	0.020	0.425	0.416	0.400	1.9	< 30	101.2	99.2	50 - 150	
Chlorfenapyr	0.000	2.047	2.119	2.000	3.4	< 30	102.3	105.9	50 - 150	
Chlorpyrifos	0.000	0.413	0.473	0.400	13.6	< 30	103.3	118.4	50 - 150	
Clofentezine	0.016	0.438	0.430	0.400	1.7	< 30	105.4	103.5	50 - 150	
Cyfluthrin	0.000	3.845	3.370	2.000	13.2	< 30	192.3	168.5	30 - 150	Q1
Cypermethrin	0.003	1.802	1.824	2.000	1.2	< 30	89.9	91.0	50 - 150	
Daminozide	0.126	1.905	1.694	2.000	11.8	< 30	89.0	78.4	30 - 150	
Diazinon	0.007	0.428	0.436	0.400	2.0	< 30	105.2	107.3	50 - 150	
Dichlorvos	0.040	1.933	1.846	2.000	4.6	< 30	94.7	90.3	50 - 150	
Dimethoat	0.007	0.365	0.332	0.400	9.4	< 30	89.6	81.3	50 - 150	
Ethoprophos	0.000	0.320	0.275	0.400	15.0	< 30	79.9	68.7	50 - 150	
Etofenprox	0.000	0.872	1.347	0.800	42.8	< 30	109.0	168.4	50 - 150	R,Q1
Etoxazol	0.002	0.398	0.428	0.400	7.4	< 30	98.8	106.5	50 - 150	
Fenoxycarb	0.000	0.397	0.373	0.400	6.3	< 30	99.2	93.1	50 - 150	
Fenpyroximat	0.000	0.763	0.781	0.800	2.3	< 30	95.4	97.7	50 - 150	
Fipronil	0.008	1.036	0.837	0.800	21.3	< 30	128.4	103.6	50 - 150	
Flonicamid	0.006	0.950	0.867	1.000	9.2	< 30	94.4	86.1	50 - 150	
Fludioxonil	0.000	0.509	0.707	0.800	32.7	< 30	63.6	88.4	50 - 150	
Hexythiazox	0.000	1.675	1.662	1.000	0.8	< 30	167.5	166.2	50 - 150	Q1
Imazalil	0.005	0.314	0.303	0.400	3.3	< 30	77.1	74.5	50 - 150	
Imidacloprid	0.002	0.771	0.716	0.800	7.3	< 30	96.1	89.3	50 - 150	
Kresoxim-Methyl	0.000	0.698	0.700	0.800	0.3	< 30	87.3	87.5	50 - 150	
Malathion	0.006	0.431	0.406	0.400	6.0	< 30	106.3	100.0	50 - 150	
Metaxalyl	0.008	0.375	0.367	0.400	2.2	< 30	91.7	89.7	50 - 150	
Methiocarb	0.049	0.375	0.310	0.400	18.8	< 30	81.4	65.3	50 - 150	
Methomyl	0.000	0.673	0.722	0.800	7.1	< 30	84.1	90.3	50 - 150	
MGK 264	0.000	0.393	0.394	0.400	0.3	< 30	98.3	98.5	50 - 150	
Myclobutanil	0.016	0.355	0.383	0.400	7.5	< 30	84.9	91.8	50 - 150	
Naled	0.029	1.020	0.933	1.000	8.8	< 30	99.1	90.4	50 - 150	
Oxamyl	0.000	1.890	1.648	2.000	13.7	< 30	94.5	82.4	50 - 150	
Paclobutrazol	0.030	0.784	0.729	0.800	7.3	< 30	94.3	87.4	50 - 150	
Parathion Methyl	0.000	0.980	0.783	0.800	22.4	< 30	122.4	97.8	30 - 150	
Permethrin	0.015	0.378	0.378	0.400	0.2	< 30	90.7	90.8	50 - 150	
Phosmet	0.007	0.393	0.334	0.400	16.2	< 30	96.5	81.8	50 - 150	
Piperonyl butoxide	0.077	2.068	2.079	2.000	0.5	< 30	99.6	100.1	50 - 150	
Prallethrin	0.064	0.564	0.616	0.400	8.8	< 30	125.1	138.1	50 - 150	
Propiconazole	0.005	0.839	0.807	0.800	3.9	< 30	104.3	100.3	50 - 150	
Propoxur	0.013	0.384	0.325	0.400	16.6	< 30	92.7	78.0	50 - 150	
Pyrethrins	0.003	0.378	0.375	0.413	0.9	< 30	90.9	90.0	50 - 150	
Pyridaben	0.004	0.260	0.258	0.400	0.7	< 30	63.9	63.4	50 - 150	
Spinosad	0.000	0.413	0.418	0.388	1.3	< 30	106.5	107.8	50 - 150	
Spiromesifen	0.037	0.398	0.391	0.400	1.8	< 30	90.5	88.7	50 - 150	
Spirotetramat	0.007	0.354	0.336	0.400	5.3	< 30	86.7	82.1	50 - 150	
Spiroxamine	0.018	0.731	0.713	0.800	2.5	< 30	89.0	86.8	50 - 150	
Tebuconazole	0.000	0.698	0.695	0.800	0.4	< 30	87.3	86.9	50 - 150	
Thiacloprid	0.000	0.374	0.343	0.400	8.5	< 30	93.4	85.8	50 - 150	
Thiamethoxam	0.000	0.372	0.337	0.400	10.0	< 30	93.1	84.3	50 - 150	
Trifloxystrobin	0.000	0.457	0.436	0.400	3.0	< 30	114.1	109.0	50 - 150	



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Report Number: 20-010425/D03.R00
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Received: 09/28/20 10:43

Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2008087/2008111									
Laboratory Control Sample									
Analyte	Result		Spike	Units	% Rec	Limits		Evaluation	Notes
CBDV-A	0.196		0.2	%	98.0	85.0 - 115		Acceptable	
CBDV	0.203		0.2	%	102	85.0 - 115		Acceptable	
CBD-A	0.199		0.2	%	99.6	85.0 - 115		Acceptable	
CBG-A	0.191		0.2	%	95.3	85.0 - 115		Acceptable	
CBG	0.199		0.2	%	99.6	85.0 - 115		Acceptable	
CBD	0.219		0.2	%	110	85.0 - 115		Acceptable	
THCV	0.196		0.2	%	98.0	85.0 - 115		Acceptable	
THCVA	0.178		0.2	%	88.9	85.0 - 115		Acceptable	
CBN	0.199		0.2	%	99.3	85.0 - 115		Acceptable	
THC	0.187		0.2	%	93.5	85.0 - 115		Acceptable	
D8THC	0.196		0.2	%	97.9	85.0 - 115		Acceptable	
CBL	0.183		0.2	%	91.6	85.0 - 115		Acceptable	
CBC	0.201		0.2	%	101	85.0 - 115		Acceptable	
THCA	0.180		0.2	%	89.9	85.0 - 115		Acceptable	
CBCA	0.183		0.2	%	91.6	85.0 - 115		Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<LOQ	0.1	%	< 0.1	Acceptable	
CBD-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBG-A	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
THC	<LOQ	0.1	%	< 0.1	Acceptable	
D8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<LOQ	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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Report Number: 20-010425/D03.R00
Report Date: 10/02/2020
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Purchase Order:
Received: 09/28/20 10:43

Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2008087/2008111			
Sample Duplicate					Sample ID: 20-010325-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.147	0.147	0.1	%	0.188	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	36.4	36.5	0.1	%	0.357	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	0.210	0.210	0.1	%	0.0903	< 20	Acceptable	
THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.294	0.294	0.1	%	0.131	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent



12423 NE Whitaker Way
Portland, OR 97230
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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	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.