



TEST RESULTS SUMMARY

Please see the following pages for full test results.

Batch Date: 11/20/2020	Batch #: 20-1120-1	NR: Not Reported NA: Not Applicable
Product Name: 6,000 MG Full-Spectrum CBD Oil Drops (200mg/ml)		LOQ: Limit Of Quantitation LOD: Limit Of Detection
Expiration Date: 11/20/2022	Batch Size: 105 Units	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg
Testing Lab: Columbia Labs	ORELAP Lab #: OR100028	

POTENCY PASS	Per Serving	Total Percent	Regulatory Action Level
Cannabidiol (CBD)	209 mg	22.4 %	N/A
Total THC (d9-THC + d8-THC)	2.65 mg	0.282 %	0.3%
Cannabigerol (CBG)	0.08 mg	<LOD %	N/A
Cannabinol (CBN)	0.05 mg	<LOD %	N/A
Cannabichromene (CBC)	0.181 mg	0.178 %	N/A

HEAVY METALS PASS	Per Serving	Per Gram	Regulatory Action Level
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES **PASS** **Regulatory Action Level**
ZERO of 59 pesticides tested found above limit of detection in the sample. 10 ppb^[3]

RESIDUAL SOLVENTS **PASS**
ZERO of 38 residual solvents tested found above limit of detection in the sample.

MICROBIAL PASS	Pass/Fail
Aerobic Plate Count	PASS
Ecoli 0157	PASS
Listeria spp.	PASS
Salmonella spp.	PASS
Staphylococcus	PASS
Yeast and Mold	PASS

1. Agency for Toxic Substances & Disease Registry. (2020). "Minimal Risk Levels (MRLs) for Hazardous Substances". Atlanta, GA: ATSDR. <https://www.atsdr.cdc.gov/mrls/mrllist.asp#24tag>

2. US Food and Drug Administration. (2020). "Lead in Food, Foodwares, and Dietary Supplements". Washington DC: FDA. <https://www.fda.gov/food/metals-and-your-food/lead-food-foodwares-and-dietary-supplements>

3. Oregon Department of Agriculture. (2020). "Cannabis and Pesticides". Salem, OR: ODA. <https://www.oregon.gov/ODA/programs/Pesticides/Pages/CannabisPesticides.aspx>



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



Report Number: 20-012882/D03.R00
Report Date: 12/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/23/20 10:25

Customer: Alliant Hemp LLC
Product identity: FS 200mg/ml lot# 20-1120-1
Client/Metric ID: .
Laboratory ID: 20-012882-0001

Sample Date: 11/20/20

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.181		%		CBD-Total per 1ml 209 mg/1ml
CBD	21.7		%		
CBDV [†]	0.0911		%		THC-Total per 1ml 2.65 mg/1ml
CBG [†]	0.0773		%		
CBN	0.0524		%		(Reported in milligrams per serving)
Δ9-THC	0.275		%		
Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	1.74		mg/1ml		
CBD per 1ml	209		mg/1ml		
CBDV per 1ml	0.877		mg/1ml		
CBG per 1ml	0.744		mg/1ml		
CBN per 1ml	0.504		mg/1ml		
Δ9-THC per 1ml	2.65		mg/1ml		

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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Received: 11/23/20 10:25



Customer: Alliant Hemp LLC

Product identity: FS 200mg/ml lot# 20-1120-1
Client/Metric ID: .
Sample Date: 11/20/20
Laboratory ID: 20-012882-0001
Relinquished by: UPS
Temp: 16.6 °C
Density: 0.9625 g/ml
Serving Size #1: 0.963 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)		Batch: 2009879	Analyze: 11/25/20 10:35:00 A	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.181		%	0.0033	
CBC-A†	< LOQ		%	0.0033	
CBC-Total†	0.181		%	0.0062	
CBD	21.7		%	0.328	
CBD-A	< LOQ		%	0.0033	
CBD-Total	21.7		%	0.331	
CBDV†	0.0911		%	0.0033	
CBDV-A†	< LOQ		%	0.0033	
CBDV-Total†	0.0911		%	0.0061	
CBG†	0.0773		%	0.0033	
CBG-A†	< LOQ		%	0.0033	
CBG-Total	0.0773		%	0.0061	
CBL†	< LOQ		%	0.0033	
CBN	0.0524		%	0.0033	
Δ8-THC†	< LOQ		%	0.0033	
Δ9-THC	0.275		%	0.0033	
THC-A	< LOQ		%	0.0033	
THC-Total	0.275		%	0.0062	
THCV†	< LOQ		%	0.0033	
THCV-A†	< LOQ		%	0.0033	
THCV-Total†	< LOQ		%	0.0061	
Total Cannabinoids†	22.4		%		

Potency per 1ml	Method J AOAC 2015 V98-6 (mod)		Batch: 2009879	Analyze: 11/25/20 10:35:00 A	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	1.74		mg/1ml	0.0316	
CBC-A per 1ml	< LOQ		mg/1ml	0.0316	
CBC-Total per 1ml	1.74		mg/1ml	0.0592	
CBD per 1ml	209		mg/1ml	3.16	
CBD-A per 1ml	< LOQ		mg/1ml	0.0316	
CBD-Total per 1ml	209		mg/1ml	3.18	
CBDV per 1ml	0.877		mg/1ml	0.0316	



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Potency per 1ml **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2009879 **Analyze:** 11/25/20 10:35:00 A

Analyte	Result	Limits	Units	LOQ	Notes
CBDV-A per 1ml	< LOQ		mg/1ml	0.0316	
CBDV-Total per 1ml	0.877		mg/1ml	0.0589	
CBG per 1ml	0.744		mg/1ml	0.0316	
CBG-A per 1ml	< LOQ		mg/1ml	0.0316	
CBG-Total per 1ml	0.744		mg/1ml	0.0589	
CBL per 1ml	< LOQ		mg/1ml	0.0316	
CBN per 1ml	0.504		mg/1ml	0.0316	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0316	
Δ9-THC per 1ml	2.65		mg/1ml	0.0316	
THC-A per 1ml	< LOQ		mg/1ml	0.0316	
THC-Total per 1ml	2.65		mg/1ml	0.0592	
THCV per 1ml	< LOQ		mg/1ml	0.0316	
THCV-A per 1ml	< LOQ		mg/1ml	0.0316	
THCV-Total per 1ml	< LOQ		mg/1ml	0.0593	
Total Cannabinoids 1ml[†]	215		mg/1ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2009845	11/30/20	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ		cfu/g	10	2009844	11/30/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2009844	11/30/20	AOAC 991.14 (Petrifilm)	X
Staphylococcus aureus	< LOQ		cfu/g	10	2009846	11/29/20	AOAC 2003.07	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2009843	11/30/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2009843	11/30/20	AOAC 2014.05 (RAPID)	X
Salmonella spp.	Negative	/25g			2009847	11/29/20	AOAC 2016.01	X
Listeria spp.	Negative	/25g			2009848	11/29/20	AOAC 2016.07	X
E.coli O157:H7	Negative	/25g			2009849	11/29/20	AOAC 2017.01	X

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

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



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Solvents					Method EPA5021A	Units µg/g	Batch 2009881	Analyze 11/30/20 11:48 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethyl butane	< 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	
Isopropyl benzene	< 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 2009973 Analyze 12/01/20 12:14 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	0.0478	2009993	12/01/20	AOAC 2013.06 (mod.)	X		
Cadmium	< LOQ		mg/kg	0.0478	2009993	12/01/20	AOAC 2013.06 (mod.)	X		
Lead	< LOQ		mg/kg	0.0478	2009993	12/01/20	AOAC 2013.06 (mod.)	X		
Mercury	< LOQ		mg/kg	0.0239	2009993	12/01/20	AOAC 2013.06 (mod.)	X		

Nutrition										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes		
Density	0.9625		g/ml	0.1000	2009859	11/24/20	DMA 35™	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

/25g = Per 25g

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/1ml = Milligram per 1ml

% = 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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Hemp Products
Chain of Custody Record
Revision: 0.00 Control#: CF002 Rev: 02/27/2020 Eff: 02/27/2020
ORELAP ID: OR100028

20-012882

Company: Alliant Hemp LLC Contact: THIS TEXT REDACTED Street: 5434 River Road North #120 City: Keizer State: OR Zip: 97303 Email Results: THIS TEXT REDACTED Ph: THIS TEXT REDACTED Billing (if different) Valley Industrial Services LLC			Analysis Requested							PO Number: _____ Project Number: _____ Project Name: Full Spectrum Oil Drops 200mg/ml lot 20-1120-1 Custom Reporting: Please report potency as mg/ml as well as %. Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turn-around time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush * <input checked="" type="checkbox"/> Priority Rush * *Ask for availability Sampled by: _____			
Lab ID	Client Sample Identification	Date	H0010 - POTENCY	N223 - Density/Specific Gravity	P2120 - Pesticide - OR compliance	H0013 - Metals	H0040 - Mycotoxins	M9000 - Profile X	H0008 - Residual Solvents	Sample Type †	Report units (potency)	Serving size (edibles)	Comments/Metric ID
1	FS 200mg/ml lot# 20-1120-1	11/20/20	✓	✓	✓	✓	✓	✓	✓	T	mg/serving	1ml	Priority Rush Potency and Density first-if testing at between 200mg CBD/ml and 220mg CBD/ml AND <0.3% Total THC then proceed with the additional testing.
Relinquished By: THIS TEXT REDACTED Date: 11/20/20 Time: 3:00pm Received by: Jmw Date: 11-23 Time: 10:25			Lab Use Only: <input type="checkbox"/> Shipped Via: UPS or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> yes <input checked="" type="checkbox"/> No - Temp (°C): 16.6 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 (L); 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.

12423 NE Whitaker Way
Portland, OR 97230

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

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Report Number: 20-012882/D03.R00
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Purchase Order:
Received: 11/23/20 10:25



Columbia Laboratories
Sample Receipt Form

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

Job Number: 20-012882 Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11-23 Time: 10:25

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 99 176 03 6737

6) Was packing material used? YES NO NA 8380
 Peanuts Bubble Wrap Foam Paper Other: _____

7) Was sufficient ice used (if appropriate)? YES NO NA
 What kind?
 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) 16.6 °C
- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____



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Received: 11/23/20 10:25

Revision # 0 00 Con rol CFL D06
 Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2009879

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
CBDV	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD-A	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBG-A	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
CBG	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBD	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCVA	0.00969	0.01	%	96.9	85.0 - 115	Acceptable	
CBN	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
D8THC	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBL	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBDA	0.0100	0.01	%	100	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBD-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBG-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
THC	<LOQ	0.003	%	< 0.003	Acceptable	
D8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 20-012882/D03.R00
Report Date: 12/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/23/20 10:25

Revision # 0 00 Control CFL D06
 Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2009879						
Sample Duplicate		Sample ID: 20-012825-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.465	0.470	0.003	%	1.09	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	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
 503-254-1794



Report Number: 20-012882/D03.R00
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Received: 11/23/20 10:25

Laboratory Quality Control Results									
Residual Solvents				Batch ID: 2009881					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		620	595	µg/g	04.2	0	30
Isobutane	ND	< 200		820	6	µg/g	0.8	0	30
Butane	ND	< 200		834	6	µg/g	09.6	0	30
2,2 Dimethyl Propane	ND	< 200		0.0	955	µg/g	05.8	0	30
Methanol	ND	< 200		380	6.0	µg/g	85	0	30
Ethylene Oxide	ND	< 30		6.6	58.3	µg/g	05	0	30
2 Methyl butane	ND	< 200		420	600	µg/g	88.6	0	30
Pentane	ND	< 200		420	6.0	µg/g	88.2	0	30
Ethanol	ND	< 200		460	6.0	µg/g	90	0	30
Ethyl Ether	ND	< 200		460	6.0	µg/g	90	0	30
2,2 Dimethyl butane	ND	< 30		50	68	µg/g	89.3	0	30
Acetone	ND	< 200		460	6.0	µg/g	90	0	30
2 Propanol	ND	< 200		4.0	600	µg/g	9.9	0	30
Acetonitrile	ND	< 00		42	486	µg/g	8.0	0	30
2,3 Dimethyl butane	ND	< 30		46	62	µg/g	90	0	30
Dichloromethane	ND	< 200		45	490	µg/g	92.0	0	30
2 Methylpentane	ND	< 30		55	64	µg/g	94.5	0	30
3 Methylpentane	ND	< 30		46	66	µg/g	88.0	0	30
Hexane	ND	< 30		4	6	µg/g	88.0	0	30
Ethyl Acetate	ND	< 200		480	6.0	µg/g	9.9	0	30
2 Butanol	ND	< 200		490	6.0	µg/g	92.5	0	30
tetrahydrofuran	ND	< 00		4.8	484	µg/g	98.8	0	30
Cyclohexane	ND	< 200		500	6.0	µg/g	93.2	0	30
Benzene	ND	< 200		22.6	24.5	µg/g	92.2	0	30
Isopropyl Acetate	ND	< 200		460	620	µg/g	90	0	30
Heptane	ND	< 200		400	6.0	µg/g	8.0	0	30
1,4 Dioxane	ND	< 00		445	484	µg/g	9.9	0	30
2 Ethoxyethanol	ND	< 30		56	86	µg/g	83.9	0	30
Ethylene Glycol	ND	< 200		39	509	µg/g	6.8	0	30
toluene	ND	< 200		456	492	µg/g	92	0	30
Ethylbenzene	ND	< 200		909	9	µg/g	93.6	0	30
m,p Xylene	ND	< 200		903	9.5	µg/g	92.6	0	30
o Xylene	ND	< 200		905	966	µg/g	93	0	30
Cumene	ND	< 30		48	6	µg/g	88.6	0	30



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Report Number: 20-012882/D03.R00
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Received: 11/23/20 10:25

QC Sample Duplicate Sample ID: 20 012933 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	00	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	00	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	200	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	
4-Dioxane	ND	ND	00	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	
Oilene	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

Units of Measure:

µg/g Microgram per gram or ppm



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



Report Number: 20-012882/D03.R00
Report Date: 12/02/2020
ORELAP#: OR100028
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Received: 11/23/20 10:25

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: 2009973				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
	0.000	< 0.200		1.030	1.000	103.0	72.4 - 126	
Acephate	0.000	< 1.000		3.373	4.000	84.3	79.8 - 122	
Acequinocyl	0.000	< 0.100		0.399	0.400	99.7	84.3 - 119	
Acetamiprid	0.000	< 0.200		0.778	0.800	97.3	82.9 - 120	
Aldicarb	0.000	< 0.288		0.791	1.000	79.1	79.6 - 124	Q6
Abamectin	0.009	< 0.100		0.483	0.400	120.9	79.4 - 127	
Azoxystrobin	0.000	< 0.100		0.397	0.400	99.2	81.6 - 124	
Bifenazate	0.000	< 0.100		0.387	0.400	96.7	71.5 - 133	
Bifenthrin	0.000	< 0.100		0.764	0.800	95.6	74.0 - 131	
Boscalid	0.000	< 0.100		0.419	0.400	104.7	82.1 - 121	
Carbaryl	0.007	< 0.100		0.358	0.400	89.5	85.1 - 125	
Carbofuran	0.000	< 0.100		0.394	0.400	98.4	70.6 - 131	
Chlorantraniliprol	0.000	< 1.000		1.826	2.000	91.3	71.0 - 132	
Chlorfenapyr	0.003	< 0.100		0.463	0.400	115.8	72.3 - 134	
Chlorpyrifos	0.000	< 0.100		0.380	0.400	95.0	80.1 - 117	
Clofentezine	0.417	< 1.000		2.268	2.000	113.4	71.8 - 133	
Cyfluthrin	0.053	< 1.000		2.092	2.000	104.6	83.1 - 126	
Cypermethrin	0.000	< 1.000		2.106	2.000	105.3	74.6 - 124	
Daminozide	0.000	< 0.100		0.412	0.400	103.1	78.9 - 126	
Diazinon	0.002	< 0.500		1.781	2.000	89.0	76.1 - 124	
Dichlorvos	0.000	< 0.100		0.394	0.400	98.5	82.8 - 119	
Dimethoat	0.002	< 0.100		0.393	0.400	98.3	69.5 - 129	
Etofenprox	0.000	< 0.100		0.789	0.800	98.6	85.2 - 128	
Etoxazol	0.003	< 0.100		0.384	0.400	96.0	79.7 - 126	
Fenoxycarb	0.000	< 0.100		0.384	0.400	96.1	84.1 - 122	
Fenpyroximat	0.016	< 0.100		0.785	0.800	98.1	82.4 - 126	
Fipronil	0.000	< 0.100		0.799	0.800	99.8	80.6 - 125	
Flonicamid	0.060	< 0.400		1.057	1.000	105.7	80.9 - 119	
Fludioxonil	0.000	< 0.100		0.771	0.800	96.4	73.0 - 136	
Hexythiazox	0.021	< 0.400		1.026	1.000	102.6	82.5 - 125	
Imazalil	0.000	< 0.100		0.418	0.400	104.6	81.4 - 128	
Imidacloprid	0.020	< 0.200		0.792	0.800	99.0	76.9 - 125	
Kresoxim-Methyl	0.000	< 0.100		0.774	0.800	96.7	82.6 - 124	
Malathion	0.000	< 0.100		0.393	0.400	98.2	74.1 - 130	
Metaxalyl	0.003	< 0.100		0.410	0.400	102.5	79.7 - 124	
Methiocarb	0.000	< 0.100		0.342	0.400	85.5	81.0 - 123	
Methomyl	0.000	< 0.200		0.796	0.800	99.4	79.4 - 118	
MGK 264	0.000	< 0.100		0.396	0.400	99.0	77.2 - 128	
Myclobutanil	0.000	< 0.100		0.409	0.400	102.3	80.6 - 123	
Naled	0.004	< 0.200		0.939	1.000	93.9	80.3 - 126	
Oxamyl	0.000	< 0.400		1.971	2.000	98.5	80.1 - 117	
Paclobutrazol	0.000	< 0.200		0.806	0.800	100.7	81.6 - 126	
Parathion Methyl	0.150	< 0.200		0.864	0.800	107.9	72.5 - 135	
Permethrin	0.017	< 0.100		0.395	0.400	98.9	75.0 - 139	
Phosmet	0.000	< 0.100		0.401	0.400	100.3	82.0 - 122	
Piperonyl butoxide	0.010	< 1.000		1.854	2.000	92.7	81.3 - 137	
Prallethrin	0.079	< 0.200		0.487	0.400	121.8	81.3 - 127	
Propiconazole	0.000	< 0.200		0.821	0.800	102.6	84.7 - 121	
Propoxur	0.007	< 0.100		0.382	0.400	95.5	84.2 - 121	
Pyrethrins	0.017	< 0.500		0.373	0.413	90.3	76.1 - 141	
Pyridaben	0.002	< 0.100		0.446	0.400	111.6	79.2 - 147	
Spinosad	0.000	< 0.100		0.423	0.388	109.0	88.4 - 127	
Spiromesifen	0.000	< 0.100		0.391	0.400	97.9	79.9 - 127	
Spirotetramat	0.000	< 0.100		0.401	0.400	100.2	81.1 - 121	
Spiroxamine	0.026	< 0.100		0.792	0.800	99.0	78.4 - 133	
Tebuconazol	0.001	< 0.200		0.801	0.800	100.1	83.1 - 122	
Thiadoprid	0.000	< 0.100		0.388	0.400	96.9	84.3 - 120	
Thiamethoxam	0.000	< 0.100		0.419	0.400	104.7	80.1 - 121	
Trifloxystrobin	0.002	< 0.100		0.408	0.400	102.0	81.4 - 125	



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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: 2009973		
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 20-012928-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Acephate	0.000	1.106	1.085	1.000	1.9%	< 30	110.6%	108.5%	50 - 150		
Acequinocyl	0.000	4.259	3.477	4.000	20.2%	< 30	106.5%	86.9%	50 - 150		
Acetamidiprid	0.000	0.418	0.441	0.400	5.5%	< 30	104.4%	110.3%	50 - 150		
Aldicarb	0.000	0.673	0.687	0.800	2.1%	< 30	84.2%	85.9%	50 - 150		
Abamectin	0.000	1.226	1.108	1.000	10.2%	< 30	122.6%	110.8%	50 - 150		
Azoxystrobin	0.008	0.515	0.501	0.400	2.8%	< 30	126.7%	123.3%	50 - 150		
Bifenazate	0.000	0.429	0.438	0.400	2.1%	< 30	107.1%	109.4%	50 - 150		
Bifenthrin	0.000	0.783	0.649	0.400	18.7%	< 30	195.7%	162.2%	50 - 150	Q1	
Boscalid	0.000	0.902	0.814	0.800	10.3%	< 30	112.8%	101.7%	50 - 150		
Carbaryl	0.000	0.464	0.466	0.400	0.4%	< 30	116.0%	116.5%	50 - 150		
Carbofuran	0.004	0.447	0.431	0.400	3.8%	< 30	110.9%	106.8%	50 - 150		
Chlorantraniliprol	0.000	0.418	0.474	0.400	12.5%	< 30	104.6%	118.6%	50 - 150		
Chlorfenapyr	0.000	2.267	2.719	2.000	18.1%	< 30	113.4%	136.0%	50 - 150		
Chlorpyrifos	0.000	0.565	0.551	0.400	2.6%	< 30	141.3%	137.7%	50 - 150		
Clofentezine	0.000	0.453	0.460	0.400	1.6%	< 30	113.2%	114.9%	50 - 150		
Cyfluthrin	0.042	2.598	2.480	2.000	4.7%	< 30	127.8%	121.9%	30 - 150		
Cypermethrin	0.000	1.852	1.821	2.000	1.7%	< 30	92.6%	91.0%	50 - 150		
Daminozide	0.010	2.402	2.507	2.000	4.3%	< 30	119.6%	124.9%	30 - 150		
Diazinon	0.000	0.472	0.515	0.400	8.8%	< 30	118.0%	128.8%	50 - 150		
Dichlorvos	0.002	1.856	2.002	2.000	7.5%	< 30	92.7%	100.0%	50 - 150		
Dimethoat	0.000	0.408	0.402	0.400	1.5%	< 30	101.9%	100.4%	50 - 150		
Ethoprophos	0.003	0.414	0.429	0.400	3.5%	< 30	102.9%	106.5%	50 - 150		
Etofenprox	0.000	0.694	0.572	0.800	19.2%	< 30	86.7%	71.5%	50 - 150		
Etoxazol	0.000	0.471	0.439	0.400	7.1%	< 30	117.8%	109.7%	50 - 150		
Fenoxycarb	0.005	0.438	0.424	0.400	3.3%	< 30	108.2%	104.7%	50 - 150		
Fenpyroximat	0.000	1.109	0.947	0.800	15.8%	< 30	138.7%	118.4%	50 - 150		
Fipronil	0.000	1.109	1.137	0.800	2.5%	< 30	138.7%	142.1%	50 - 150		
Fonicamid	0.046	1.002	0.932	1.000	7.6%	< 30	95.6%	88.6%	50 - 150		
Fludioxonil	0.000	0.680	0.791	0.800	15.1%	< 30	85.0%	98.9%	50 - 150		
Hexythiazox	0.000	2.566	2.337	1.000	9.3%	< 30	256.6%	233.7%	50 - 150	Q1	
Imazalil	0.000	0.354	0.346	0.400	2.2%	< 30	88.6%	86.6%	50 - 150		
Imidacloprid	0.000	0.864	0.878	0.800	1.5%	< 30	108.0%	109.7%	50 - 150		
Kresoxim-Methyl	0.000	0.957	0.839	0.800	13.1%	< 30	119.6%	104.8%	50 - 150		
Malathion	0.000	0.419	0.440	0.400	4.9%	< 30	104.7%	109.9%	50 - 150		
Metaxalyl	0.003	0.427	0.443	0.400	3.8%	< 30	106.1%	110.1%	50 - 150		
Methiocarb	0.000	0.393	0.464	0.400	16.6%	< 30	98.3%	116.1%	50 - 150		
Methomyl	0.000	0.852	0.866	0.800	1.6%	< 30	106.5%	108.2%	50 - 150		
MGK 264	0.000	0.456	0.471	0.400	3.3%	< 30	114.0%	117.8%	50 - 150		
Myclobutanil	0.000	0.483	0.446	0.400	8.0%	< 30	120.8%	111.4%	50 - 150		
Naled	0.000	1.070	1.067	1.000	0.3%	< 30	107.0%	106.7%	50 - 150		
Oxamyl	0.000	1.820	1.885	2.000	3.5%	< 30	91.0%	94.3%	50 - 150		
Paclobutrazol	0.000	1.002	1.013	0.800	1.0%	< 30	125.3%	126.6%	50 - 150		
Parathion Methyl	0.000	0.855	0.786	0.800	8.5%	< 30	106.9%	98.2%	30 - 150		
Permethrin	0.011	0.405	0.356	0.400	13.2%	< 30	98.5%	86.3%	50 - 150		
Phosmet	0.000	0.404	0.422	0.400	4.4%	< 30	100.9%	105.5%	50 - 150		
Piperonyl butoxide	0.000	2.271	2.267	2.000	0.2%	< 30	113.6%	113.4%	50 - 150		
Prallethrin	0.058	0.664	0.749	0.400	13.0%	< 30	151.6%	172.7%	50 - 150	Q1	
Propiconazole	0.000	1.015	1.046	0.800	3.0%	< 30	126.9%	130.7%	50 - 150		
Propoxur	0.004	0.393	0.403	0.400	2.4%	< 30	97.2%	99.6%	50 - 150		
Pyrethrins	0.000	0.374	0.294	0.413	24.2%	< 30	90.7%	71.1%	50 - 150		
Pyridaben	0.002	0.318	0.319	0.400	0.2%	< 30	78.9%	79.1%	50 - 150		
Spinosad	0.000	0.387	0.401	0.388	3.7%	< 30	99.7%	103.5%	50 - 150		
Spiromesifen	0.000	0.442	0.475	0.400	7.2%	< 30	110.5%	118.7%	50 - 150		
Spirotetramat	0.000	0.413	0.418	0.400	1.4%	< 30	103.1%	104.6%	50 - 150		
Spiroxamine	0.023	0.819	0.834	0.800	2.0%	< 30	99.5%	101.5%	50 - 150		
Tebuconazol	0.001	1.114	1.161	0.800	4.1%	< 30	139.1%	144.9%	50 - 150		
Thiadoprid	0.006	0.419	0.422	0.400	0.8%	< 30	103.4%	104.2%	50 - 150		
Thiamethoxam	0.000	0.432	0.433	0.400	0.3%	< 30	107.9%	108.3%	50 - 150		
Trifloxystrobin	0.001	0.447	0.463	0.400	3.6%	< 30	111.4%	115.5%	50 - 150		



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Report Number: 20-012882/D03.R00
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Received: 11/23/20 10:25

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.