



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



**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

**Product identity:** D8 Cart Blend Go  
**Client/Metric ID:**  
**Laboratory ID:** 20-014071-0001

**Sample Date:** 12/21/20

### Summary

#### Potency:

Analyte	Result (%)		
Δ8-THC <sup>†</sup>	84.7		
			CBD-Total <LOQ
			THC-Total <LOQ
			(Reported in percent of total sample)

#### Residual Solvents:

Analyte	Result (μg/g)	Limits (μg/g)	Status
n-Heptane	1630	5000	pass

#### Pesticides:

All analytes passing and less than LOQ.

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene <sup>†</sup>	2.34	47.56%	Humulene <sup>†</sup>	0.591	12.01%
(R)-(+)-Limonene <sup>†</sup>	0.437	8.88%	Linalool <sup>†</sup>	0.298	6.06%
(-)-α-Terpineol <sup>†</sup>	0.271	5.51%	p-Cymene <sup>†</sup>	0.269	5.47%
(+)-fenchol <sup>†</sup>	0.213	4.33%	α-pinene <sup>†</sup>	0.159	3.23%
(-)-β-Pinene <sup>†</sup>	0.128	2.60%	(-)-caryophyllene oxide <sup>†</sup>	0.0882	1.79%
Geranyl acetate <sup>†</sup>	0.0438	0.89%	Isoborneol <sup>†</sup>	0.0281	0.57%
Menthol <sup>†</sup>	0.0272	0.55%	(+)-Borneol <sup>†</sup>	0.0238	0.48%
<b>Total Terpenes<sup>†</sup></b>	<b>4.92</b>	<b>100.00%</b>			

#### Metals:

Less than LOQ for all analytes.



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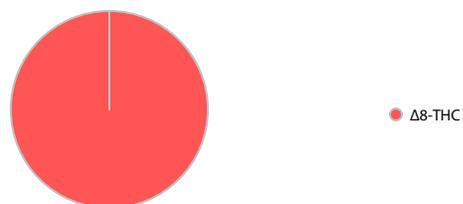
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**Product identity:** D8 Cart Blend Go  
**Client/Metric ID:** .  
**Sample Date:** 12/21/20  
**Laboratory ID:** 20-014071-0001  
**Relinquished by:** UPS  
**Temp:** 15.5 °C

### Sample Results

Potency **Method J AOAC 2015 V98-6 (mod)** **Batch: 2010758** **Analyze: 12/23/20 11:06:00 P**

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0958	
CBC-A <sup>†</sup>	< LOQ		0.0958	
CBC-Total <sup>†</sup>	< LOQ		0.180	
CBD	< LOQ		0.0958	
CBD-A	< LOQ		0.0958	
CBD-Total	< LOQ		0.180	
CBDV <sup>†</sup>	< LOQ		0.0958	
CBDV-A <sup>†</sup>	< LOQ		0.0958	
CBDV-Total <sup>†</sup>	< LOQ		0.179	
CBG <sup>†</sup>	< LOQ		0.0958	
CBG-A <sup>†</sup>	< LOQ		0.0958	
CBG-Total	< LOQ		0.179	
CBL <sup>†</sup>	< LOQ		0.0958	
CBN	< LOQ		0.0958	
Δ8-THC <sup>†</sup>	84.7		0.958	
Δ9-THC	< LOQ		0.0958	
THC-A	< LOQ		0.0958	
THC-Total	< LOQ		0.180	
THCV <sup>†</sup>	< LOQ		0.0958	
THCV-A <sup>†</sup>	< LOQ		0.0958	
THCV-Total <sup>†</sup>	< LOQ		0.179	
<b>Total Cannabinoids<sup>†</sup></b>	<b>84.7</b>			



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 333-007-0410 OAR 333-007-0430



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Solvents					Method EPA5021A	Units $\mu\text{g/g}$	Batch 2010659	Analyze 12/23/20 07:35 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	1630	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 2010713 Analyze 12/24/20 10:54 AM											
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							

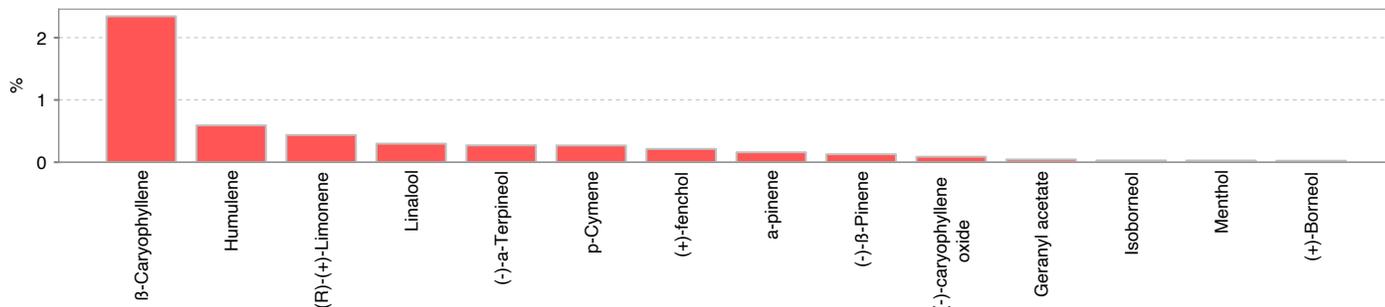


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2010660	Analyze 12/23/20 07:58 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene <sup>†</sup>	2.34	0.020	47.56%		Humulene <sup>†</sup>	0.591	0.020	12.01%	
(R)-(+)-Limonene <sup>†</sup>	0.437	0.020	8.88%		Linalool <sup>†</sup>	0.298	0.020	6.06%	
(-)-α-Terpineol <sup>†</sup>	0.271	0.020	5.51%		p-Cymene <sup>†</sup>	0.269	0.020	5.47%	
(+)-fenchol <sup>†</sup>	0.213	0.020	4.33%		α-pinene <sup>†</sup>	0.159	0.020	3.23%	
(-)-β-Pinene <sup>†</sup>	0.128	0.020	2.60%		(-)-caryophyllene oxide <sup>†</sup>	0.0882	0.020	1.79%	
Geranyl acetate <sup>†</sup>	0.0438	0.020	0.89%		Isoborneol <sup>†</sup>	0.0281	0.020	0.57%	
Menthol <sup>†</sup>	0.0272	0.020	0.55%		(+)-Borneol <sup>†</sup>	0.0238	0.020	0.48%	
(-)-Guaiol <sup>†</sup>	< LOQ	0.020	0.00%		(-)-Isopulegol <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-Cedrol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.020	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-fenchone <sup>†</sup>	< LOQ	0.020	0.00%		(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
α-Bisabolol <sup>†</sup>	< LOQ	0.020	0.00%		α-cedrene <sup>†</sup>	< LOQ	0.020	0.00%	
α-phellandrene <sup>†</sup>	< LOQ	0.020	0.00%		α-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Camphene <sup>†</sup>	< LOQ	0.020	0.00%		cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%	
d-3-Carene <sup>†</sup>	< LOQ	0.020	0.00%		Eucalyptol <sup>†</sup>	< LOQ	0.020	0.00%	
farnesene <sup>†</sup>	< LOQ	0.020	0.00%		γ-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Geraniol <sup>†</sup>	< LOQ	0.020	0.00%		nerol <sup>†</sup>	< LOQ	0.020	0.00%	
Sabinene <sup>†</sup>	< LOQ	0.020	0.00%		Sabinene hydrate <sup>†</sup>	< LOQ	0.020	0.00%	
β-Myrcene <sup>†</sup>	< LOQ	0.020	0.00%		Terpinolene <sup>†</sup>	< LOQ	0.020	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.013	0.00%		valencene <sup>†</sup>	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>4.92</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0399	2010697	12/23/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0399	2010697	12/23/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0399	2010697	12/23/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0200	2010697	12/23/20	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**

$\mu\text{g/g}$  = Microgram per gram

$\text{mg/kg}$  = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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20-014071



**Hemp / Cannabis Usable / Extract  
 Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020  
 ORELAP ID: OR100028

Company: <u>Amote</u> Contact: <u>Damian</u> Street: <u>375 Dillard Gardens Rd</u> City: <u>Winston</u> State: <u>OR</u> Zip: <u>97146</u> <input checked="" type="checkbox"/> Email Results: <u>info@amotagroup.com</u> Ph: <u>(630) 202-5352</u> <input type="checkbox"/> Fx Results: ( ) Billing (if different): _____				<b>Analysis Requested</b> Potency Solvents Heavy Metal Pesticides Terps						PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i>	
Lab ID	Client Sample Identification	Date	Time	Potency	Solvents	Heavy Metal	Pesticides	Terps	Sample Type †	Weight (Units)	Comments/Metric ID
1	DS Cart Blend GO	12/21		X	X	X	X	X	Jr	12g	-extract Rush Cart Blend
2	DS Syringe Blend GO	12/21		X				X		2g	-2 syringes - extract
Relinquished By:			Date	Time	Received By:			Date	Time	Lab Use Only:	
<u>Damian Moran</u>			<u>12/21</u>		<u>JB</u>			<u>12/22</u>	<u>11:26</u>	<input checked="" type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): <u>14.1</u> <input checked="" type="checkbox"/> Sample in good condition: <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input checked="" type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: Prelog storage: <u>A</u>	

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C)

No check in box!

Samples submitted to Columbia Laboratories 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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Columbia Laboratories  
Sample Receipt Form

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

Job Number: 20-014071 Search Name: \_\_\_\_\_

Package/Cooler opened on (if different than received date/time) Date: 12/22 Time: 11:26

Received By (Initials): JB

- 1) Were custody seals on outside of the package/cooler? YES NO NA  
If YES, how many and where? \_\_\_\_\_
- 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): 12 87F V34 03 9359 9630

6) Was packing material used? YES NO NA  
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) 14.1 °C

16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: \_\_\_\_\_

Explain any discrepancies: \_\_\_\_\_



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Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2010659				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		591	595	µg/g	99.3	70	- 130
Isobutane	ND	< 200		758	761	µg/g	99.6	70	- 130
Butane	ND	< 200		767	761	µg/g	100.8	70	- 130
2,2-Dimethylpropane	ND	< 200		952	955	µg/g	99.7	70	- 130
Methanol	ND	< 200		1680	1610	µg/g	104.3	70	- 130
Ethylene Oxide	ND	< 30		55.8	58.3	µg/g	95.7	70	- 130
2-Methylbutane	ND	< 200		1330	1600	µg/g	83.1	70	- 130
Pentane	ND	< 200		1370	1610	µg/g	85.1	70	- 130
Ethanol	ND	< 200		1550	1610	µg/g	96.3	70	- 130
Ethyl Ether	ND	< 200		1560	1610	µg/g	96.9	70	- 130
2,2-Dimethylbutane	ND	< 30		158	168	µg/g	94.0	70	- 130
Acetone	ND	< 200		1620	1610	µg/g	100.6	70	- 130
2-Propanol	ND	< 200		1630	1600	µg/g	101.9	70	- 130
Ethyl Formate	ND	< 500		1510	1710	µg/g	88.3	70	- 130
Acetonitrile	ND	< 100		466	486	µg/g	95.9	70	- 130
Methyl Acetate	ND	< 500		1480	1610	µg/g	91.9	70	- 130
2,3-Dimethylbutane	ND	< 30		175	162	µg/g	108.0	70	- 130
Dichloromethane	ND	< 200		463	490	µg/g	94.5	70	- 130
2-Methylpentane	ND	< 30		147	164	µg/g	89.6	70	- 130
MTBE	ND	< 500		1470	1620	µg/g	90.7	70	- 130
3-Methylpentane	ND	< 30		149	166	µg/g	89.8	70	- 130
Hexane	ND	< 30		158	167	µg/g	94.6	70	- 130
1-Propanol	ND	< 500		1630	1600	µg/g	101.9	70	- 130
Methylethylketone	ND	< 500		1550	1610	µg/g	96.3	70	- 130
Ethyl acetate	ND	< 200		1640	1610	µg/g	101.9	70	- 130
2-Butanol	ND	< 200		1690	1610	µg/g	105.0	70	- 130
Tetrahydrofuran	ND	< 100		461	484	µg/g	95.2	70	- 130
Cyclohexane	ND	< 200		1560	1610	µg/g	96.9	70	- 130
2-methyl-1-propanol	ND	< 500		1650	1610	µg/g	102.5	70	- 130
Benzene	ND	< 1		19.8	24.5	µg/g	80.8	70	- 130
Isopropyl Acetate	ND	< 200		1610	1620	µg/g	99.4	70	- 130
Heptane	ND	< 200		1510	1610	µg/g	93.8	70	- 130
1-Butanol	ND	< 500		1660	1600	µg/g	103.8	70	- 130
Propyl Acetate	ND	< 500		1600	1620	µg/g	98.8	70	- 130
1,4-Dioxane	ND	< 100		493	484	µg/g	101.9	70	- 130
2-Ethoxyethanol	ND	< 30		168	186	µg/g	90.3	70	- 130
Methylisobutylketone	ND	< 500		1540	1610	µg/g	95.7	70	- 130
3-Methyl-1-butanol	ND	< 500		1660	1610	µg/g	103.1	70	- 130
Ethylene Glycol	ND	< 200		452	509	µg/g	88.8	70	- 130
Toluene	ND	< 200		431	492	µg/g	87.6	70	- 130
Isobutyl Acetate	ND	< 500		1640	1610	µg/g	101.9	70	- 130
1-Pentanol	ND	< 500		1620	1620	µg/g	100.0	70	- 130
Butyl Acetate	ND	< 500		1610	1610	µg/g	100.0	70	- 130
Ethylbenzene	ND	< 200		863	971	µg/g	88.9	70	- 130
m,p-Xylene	ND	< 200		904	975	µg/g	92.7	70	- 130
o-Xylene	ND	< 200		891	966	µg/g	92.2	70	- 130
Cumene	ND	< 30		157	167	µg/g	94.0	70	- 130
Anisole	ND	< 500		1620	1610	µg/g	100.6	70	- 130
DMSO	ND	< 500		1670	1650	µg/g	101.2	70	- 130
1,2-dimethoxyethane	ND	< 50		163	170	µg/g	95.9	70	- 130
Triethylamine	ND	< 500		1410	1610	µg/g	87.6	70	- 130
N,N-dimethylformamide	ND	< 150		470	490	µg/g	95.9	70	- 130
N,N-dimethylacetamide	ND	< 150		436	485	µg/g	89.9	70	- 130
Pyridine	ND	< 50		160	167	µg/g	95.8	70	- 130



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**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

QC - Sample Duplicate Sample ID: 20-013864-0001

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	1090	939	200	µg/g	14.9	< 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	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	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	
MTBE	ND	ND	500	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	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	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	
2-methyl-1-propanol	ND	ND	500	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-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	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	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	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	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	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	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	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



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**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

Terpenes Quality Control Results

Method Reference: EP/6035 Batch ID: 2010660

Analyte	Method Blank			Laboratory Control Sample					
	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		587	500	µg/g	117%	70 - 130	
Camphene	<LOQ	< 200		585	500	µg/g	117%	70 - 130	
Sabinene	<LOQ	< 200		562	500	µg/g	112%	70 - 130	
b-Pinene	<LOQ	< 200		650	500	µg/g	130%	70 - 130	
b-Myrcene	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
a-phellandrene	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
d-3-Caene	<LOQ	< 200		466	500	µg/g	93%	70 - 130	
a-Terpinene	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
p-Cymene	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
D-Limonene	<LOQ	< 200		504	500	µg/g	101%	70 - 130	
Eucalyptol	<LOQ	< 200		592	500	µg/g	118%	70 - 130	
b-α-Cimene	<LOQ	< 66.7		144	167	µg/g	86%	70 - 130	
b-trans-Cimene	<LOQ	< 133		293	333	µg/g	88%	70 - 130	
γ-Terpinene	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		517	500	µg/g	103%	70 - 130	
Terpinolene	<LOQ	< 200		443	500	µg/g	89%	70 - 130	
D-Fenchone	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
Linalool	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
Fenchol	<LOQ	< 200		559	500	µg/g	112%	70 - 130	
Camphor	<LOQ	< 200		575	500	µg/g	115%	70 - 130	
Isopuleg	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
Isoborneol	<LOQ	< 200		606	500	µg/g	121%	70 - 130	
Borneol	<LOQ	< 200		558	500	µg/g	112%	70 - 130	
DL-Menthol	<LOQ	< 200		562	500	µg/g	112%	70 - 130	
Terpineol	<LOQ	< 200		453	500	µg/g	91%	70 - 130	
Nerol	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
Pulegone	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
Geraniol	<LOQ	< 200		633	500	µg/g	127%	70 - 130	
Geranyl Acetate	<LOQ	< 200		452	500	µg/g	90%	70 - 130	
α-Cedrene	<LOQ	< 200		559	500	µg/g	112%	70 - 130	
b-Caryophyllene	<LOQ	< 200		575	500	µg/g	115%	70 - 130	
α-Humulene	<LOQ	< 200		582	500	µg/g	116%	70 - 130	
Valenene	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
cis-Nerolidol	<LOQ	< 200		575	500	µg/g	115%	70 - 130	
α-Farnesene	<LOQ	< 200		544	500	µg/g	109%	70 - 130	
trans-Nerolidol	<LOQ	< 200		491	500	µg/g	98%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		554	500	µg/g	111%	70 - 130	
Guaiol	<LOQ	< 200		532	500	µg/g	106%	70 - 130	
Cedrol	<LOQ	< 200		568	500	µg/g	114%	70 - 130	
α-Bisabolol	<LOQ	< 200		553	500	µg/g	111%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
%REC	Percent Recovery

Formulas

$$\text{LCS Percent Recovery} = \frac{\mu / \mu}{\mu / \mu} \times 100\%$$



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**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2010660					
Sample/Sample Duplicate		Sample ID: 20-014071-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	1620	1590	200	µg/g	2%	< 20	
Camphene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Pinene	1280	1280	200	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
d-3-Caene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
p-Cymene	2680	2690	200	µg/g	0%	< 20	
D-Limonene	4350	4370	200	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-cis-OCimene	<LOQ	<LOQ	66.7	µg/g	0%	< 20	
b-trans-OCimene	<LOQ	<LOQ	133	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	200	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Linalool	2950	2980	200	µg/g	1%	< 20	
Fenchol	2120	2130	200	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isopuleg	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isborneol	280	281	200	µg/g	0%	< 20	
Borneol	245	238	200	µg/g	3%	< 20	
DL-Menthol	271	272	200	µg/g	0%	< 20	
Terpineol	2720	2710	200	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Rulegone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geranyl_Acetate	436	438	200	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Caryophyllene	23400	23400	200	µg/g	0%	< 20	
a-Humulene	5980	5910	200	µg/g	1%	< 20	
Valenene	<LOQ	<LOQ	200	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	200	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Caryophyllene Oxide	904	882	200	µg/g	2%	< 20	
Guaiol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Bisabol	<LOQ	<LOQ	200	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference

Formulas

$$\text{Relative Percent Difference} = \frac{|\frac{\mu_1}{\mu_2} - \frac{\mu_2}{\mu_1}|}{\left(\frac{\mu_1}{\mu_2} + \frac{\mu_2}{\mu_1}\right)} \times 100\%$$



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**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
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**Received:** 12/22/20 11:26



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: 2010713				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.023	< 0.200		0.984	1.000	98.4	72.4 - 126	
Acequinocyl	0.000	< 1.000		2.714	4.000	67.8	79.8 - 122	Q
Acetamiprid	0.000	< 0.100		0.395	0.400	98.6	84.3 - 119	
Aldicarb	0.000	< 0.200		0.813	0.800	101.6	82.9 - 120	
Abamectin	0.000	< 0.288		1.181	1.000	118.1	79.6 - 124	
Azoxystrobin	0.000	< 0.100		0.415	0.400	103.8	79.4 - 127	
Bifenazate	0.000	< 0.100		0.373	0.400	93.2	81.6 - 124	
Bifenthrin	0.000	< 0.100		0.421	0.400	105.3	71.5 - 133	
Boscalid	0.000	< 0.100		0.825	0.800	103.1	74.0 - 131	
Carbaryl	0.000	< 0.100		0.397	0.400	99.2	82.1 - 121	
Carbofuran	0.000	< 0.100		0.383	0.400	95.7	85.1 - 125	
Chlorantraniliprol	0.000	< 0.100		0.410	0.400	102.4	70.6 - 131	
Chlorfenapyr	0.000	< 1.000		1.897	2.000	94.8	71.0 - 132	
Chlorpyrifos	0.000	< 0.100		0.415	0.400	103.7	72.3 - 134	
Clofentezine	0.000	< 0.100		0.394	0.400	98.4	80.1 - 117	
Cyfluthrin	0.000	< 1.000		1.644	2.000	82.2	71.8 - 133	
Cypermethrin	0.000	< 1.000		2.002	2.000	100.1	83.1 - 126	
Daminozide	0.123	< 1.000		1.902	2.000	95.1	74.6 - 124	
Diazinon	0.000	< 0.100		0.397	0.400	99.2	78.9 - 126	
Dichlorvos	0.000	< 0.500		1.945	2.000	97.3	76.1 - 124	
Dimethoat	0.000	< 0.100		0.387	0.400	96.8	82.8 - 119	
Ethoprophos	0.000	< 0.100		0.363	0.400	90.8	69.5 - 129	
Etofenprox	0.010	< 0.100		0.794	0.800	99.3	85.2 - 128	
Etoxazol	0.010	< 0.100		0.388	0.400	96.9	79.7 - 126	
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.9	84.1 - 122	
Fenpyroximat	0.005	< 0.100		0.808	0.800	101.0	82.4 - 126	
Fipronil	0.000	< 0.100		0.777	0.800	97.1	80.6 - 125	
Flonicamid	0.000	< 0.400		1.019	1.000	101.9	80.9 - 119	
Fludoxonil	0.000	< 0.100		0.793	0.800	99.1	73.0 - 136	
Hexythiazox	0.000	< 0.400		1.004	1.000	100.4	82.5 - 125	
Imazalil	0.000	< 0.100		0.416	0.400	104.1	81.4 - 128	
Imidacloprid	0.000	< 0.200		0.779	0.800	97.4	76.9 - 125	
Kresoxim-Methyl	0.000	< 0.100		0.727	0.800	90.9	82.6 - 124	
Malathion	0.009	< 0.100		0.385	0.400	96.4	74.1 - 130	
Metaxalyl	0.000	< 0.100		0.401	0.400	100.3	79.7 - 124	
Methiocarb	0.030	< 0.100		0.441	0.400	110.3	81.0 - 123	
Methomyl	0.000	< 0.200		0.847	0.800	105.8	79.4 - 118	
MGK 264	0.000	< 0.100		0.406	0.400	101.5	77.2 - 128	
Myclobutanil	0.000	< 0.100		0.392	0.400	98.1	80.6 - 123	
Naled	0.000	< 0.200		0.948	1.000	94.8	80.3 - 126	
Oxamyl	0.000	< 0.400		2.061	2.000	103.1	80.1 - 117	
Paclobutrazol	0.000	< 0.200		0.817	0.800	102.1	81.6 - 126	
Parathion Methyl	0.000	< 0.200		0.763	0.800	95.4	72.5 - 135	
Permethrin	0.000	< 0.100		0.390	0.400	97.5	75.0 - 139	
Phosmet	0.000	< 0.100		0.384	0.400	96.1	82.0 - 122	
Piperonyl butoxide	0.000	< 1.000		1.687	2.000	84.3	81.3 - 137	
Prallethrin	0.000	< 0.200		0.385	0.400	96.2	81.3 - 127	
Propiconazole	0.000	< 0.200		0.823	0.800	102.9	84.7 - 121	
Propoxur	0.000	< 0.100		0.383	0.400	95.7	84.2 - 121	
Pyrethrins	0.070	< 0.500		0.570	0.413	138.1	76.1 - 141	
Pyridaben	0.000	< 0.100		0.503	0.400	125.7	79.2 - 147	
Spinosad	0.000	< 0.100		0.409	0.388	105.4	88.4 - 127	
Spiromesifen	0.000	< 0.100		0.421	0.400	105.2	79.9 - 127	
Spirotetramat	0.000	< 0.100		0.399	0.400	99.8	81.1 - 121	
Spiroxamine	0.000	< 0.100		0.774	0.800	96.8	78.4 - 133	
Tebuconazol	0.000	< 0.200		0.816	0.800	102.0	83.1 - 122	
Thiadoprid	0.000	< 0.100		0.403	0.400	100.7	84.3 - 120	
Thiamethoxam	0.000	< 0.100		0.422	0.400	105.5	80.1 - 121	
Trifloxystrobin	0.000	< 0.100		0.405	0.400	101.3	81.4 - 125	



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503-254-1794

Report Number: 20-014071/D05.R00  
Report Date: 12/29/2020  
ORELAP#: OR100028  
Purchase Order:  
Received: 12/22/20 11:26



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: 2010713				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 20-013864-0001								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.013	1.023	0.978	1.000	4.6%	< 30	101.0%	96.4%	50 - 150	
Acequinocyl	0.000	6.531	6.176	4.000	5.6%	< 30	163.3%	154.4%	50 - 150	Q1
Acetamiprid	0.000	0.404	0.400	0.400	1.0%	< 30	101.1%	100.1%	50 - 150	
Aldicarb	0.000	0.727	0.654	0.800	10.6%	< 30	90.9%	81.7%	50 - 150	
Abamectin	0.000	0.931	1.022	1.000	9.3%	< 30	93.1%	102.2%	50 - 150	
Azoxystrobin	0.000	0.421	0.442	0.400	5.0%	< 30	105.2%	110.5%	50 - 150	
Bifenazate	0.000	0.385	0.373	0.400	3.3%	< 30	96.3%	93.2%	50 - 150	
Bifenthrin	0.000	0.923	0.926	0.400	0.3%	< 30	230.8%	231.4%	50 - 150	Q1
Boscalid	0.000	0.742	0.776	0.800	4.5%	< 30	92.7%	97.0%	50 - 150	
Carbaryl	0.000	0.408	0.401	0.400	1.7%	< 30	102.0%	100.3%	50 - 150	
Carbofuran	0.000	0.431	0.362	0.400	17.2%	< 30	107.7%	90.6%	50 - 150	
Chlorantraniliprol	0.000	0.428	0.422	0.400	1.5%	< 30	107.1%	105.5%	50 - 150	
Chlorfenapyr	0.000	3.417	3.349	2.000	2.0%	< 30	170.8%	167.4%	50 - 150	Q1
Chlorpyrifos	0.000	0.608	0.621	0.400	2.2%	< 30	152.0%	155.3%	50 - 150	Q1
Clofentezine	0.000	0.392	0.392	0.400	0.2%	< 30	98.0%	97.9%	50 - 150	
Cyfluthrin	0.000	1.947	2.136	2.000	9.2%	< 30	97.4%	106.8%	30 - 150	
Cypermethrin	0.000	1.769	1.739	2.000	1.7%	< 30	88.4%	87.0%	50 - 150	
Daminozide	0.086	2.018	1.904	2.000	6.1%	< 30	96.6%	90.9%	30 - 150	
Diazinon	0.000	0.450	0.448	0.400	0.3%	< 30	112.4%	112.1%	50 - 150	
Dichlorvos	0.000	1.960	2.019	2.000	2.9%	< 30	98.0%	100.9%	50 - 150	
Dimethoat	0.000	0.405	0.384	0.400	5.1%	< 30	101.2%	96.1%	50 - 150	
Ethoprophos	0.000	0.348	0.343	0.400	1.5%	< 30	87.0%	85.7%	50 - 150	
Etofenprox	0.000	0.823	0.877	0.800	6.3%	< 30	102.9%	109.7%	50 - 150	
Etoxazol	0.010	0.384	0.394	0.400	2.7%	< 30	93.4%	96.0%	50 - 150	
Fenoxycarb	0.000	0.379	0.371	0.400	2.1%	< 30	94.8%	92.8%	50 - 150	
Fenproximat	0.000	0.969	0.919	0.800	5.4%	< 30	121.2%	114.8%	50 - 150	
Fipronil	0.000	0.793	0.822	0.800	3.6%	< 30	99.2%	102.8%	50 - 150	
Fonicamid	0.000	1.049	0.992	1.000	5.6%	< 30	104.9%	99.2%	50 - 150	
Fludioxonil	0.000	0.841	0.733	0.800	13.8%	< 30	105.2%	91.6%	50 - 150	
Hexythiazox	0.000	2.036	2.006	1.000	1.5%	< 30	203.6%	200.6%	50 - 150	Q1
Imazalil	0.000	0.440	0.440	0.400	0.0%	< 30	109.9%	110.0%	50 - 150	
Imidacloprid	0.000	0.877	0.851	0.800	3.1%	< 30	109.7%	106.4%	50 - 150	
Kresoxim-Methyl	0.000	0.797	0.705	0.800	12.3%	< 30	99.7%	88.1%	50 - 150	
Malathion	0.000	0.412	0.409	0.400	0.8%	< 30	102.9%	102.2%	50 - 150	
Metaxyl	0.000	0.424	0.410	0.400	3.4%	< 30	106.1%	102.5%	50 - 150	
Methiocarb	0.034	0.460	0.462	0.400	0.6%	< 30	106.4%	107.0%	50 - 150	
Methomyl	0.000	0.811	0.779	0.800	4.1%	< 30	101.4%	97.3%	50 - 150	
MGK 264	0.000	0.457	0.456	0.400	0.1%	< 30	114.3%	114.1%	50 - 150	
Myclobutanil	0.000	0.429	0.435	0.400	1.3%	< 30	107.4%	108.8%	50 - 150	
Naled	0.000	1.038	0.996	1.000	4.1%	< 30	103.8%	99.6%	50 - 150	
Oxamyl	0.000	1.987	2.376	2.000	17.8%	< 30	99.4%	118.8%	50 - 150	
Paclobutrazol	0.000	0.825	0.825	0.800	0.0%	< 30	103.1%	103.1%	50 - 150	
Parathion Methyl	0.000	0.775	0.837	0.800	7.6%	< 30	96.9%	104.6%	30 - 150	
Permethrin	0.000	0.404	0.381	0.400	5.9%	< 30	101.1%	95.3%	50 - 150	
Phosmet	0.000	0.410	0.394	0.400	3.8%	< 30	102.5%	98.6%	50 - 150	
Piperonyl butoxide	0.945	1.936	1.998	2.000	6.0%	< 30	49.5%	52.6%	50 - 150	Q
Prallethrin	0.000	0.639	0.572	0.400	11.2%	< 30	159.8%	142.9%	50 - 150	Q1
Propiconazole	0.000	0.797	0.805	0.800	1.1%	< 30	99.6%	100.7%	50 - 150	
Propoxur	0.000	0.402	0.387	0.400	3.7%	< 30	100.4%	96.8%	50 - 150	
Pyrethrins	0.137	0.420	0.459	0.413	12.7%	< 30	68.5%	77.8%	50 - 150	
Pyridaben	0.000	0.370	0.357	0.400	3.7%	< 30	92.6%	89.2%	50 - 150	
Spinosad	0.000	0.420	0.418	0.388	0.5%	< 30	108.3%	107.8%	50 - 150	
Spiromesifen	0.000	0.328	0.367	0.400	11.2%	< 30	82.0%	91.7%	50 - 150	
Spirotetramat	0.000	0.386	0.383	0.400	0.9%	< 30	96.5%	95.7%	50 - 150	
Spiroxamine	0.000	0.802	0.805	0.800	0.3%	< 30	100.3%	100.6%	50 - 150	
Tebuconazol	0.000	0.808	0.773	0.800	4.5%	< 30	101.0%	96.6%	50 - 150	
Thiadoprid	0.000	0.411	0.407	0.400	1.0%	< 30	102.9%	101.8%	50 - 150	
Thiamethoxam	0.000	0.403	0.413	0.400	2.5%	< 30	100.8%	103.4%	50 - 150	
Trifloxystrobin	0.000	0.409	0.391	0.400	4.6%	< 30	102.3%	97.7%	50 - 150	



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



**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2010758

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBDV	0.210	0.2	%	105	85.0 - 115	Acceptable	
CBD-A	0.205	0.2	%	102	85.0 - 115	Acceptable	
CBG-A	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBG	0.205	0.2	%	102	85.0 - 115	Acceptable	
CBD	0.197	0.2	%	98.6	85.0 - 115	Acceptable	
THCV	0.201	0.2	%	101	85.0 - 115	Acceptable	
THCVA	0.187	0.2	%	93.5	85.0 - 115	Acceptable	
CBN	0.206	0.2	%	103	85.0 - 115	Acceptable	
THC	0.203	0.2	%	101	85.0 - 115	Acceptable	
D8THC	0.199	0.2	%	99.7	85.0 - 115	Acceptable	
CBL	0.199	0.2	%	99.6	85.0 - 115	Acceptable	
CBC	0.205	0.2	%	103	85.0 - 115	Acceptable	
THCA	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
CBCA	0.190	0.2	%	95.0	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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 503-254-1794



**Report Number:** 20-014071/D05.R00  
**Report Date:** 12/29/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/22/20 11:26

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2010758						
Sample Duplicate			Sample ID: 20-013316-0001-01					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.185	0.186	0.1	%	0.949	< 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	27.7	28.0	0.1	%	1.04	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 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	<LOQ	<LOQ	0.1	%	NA	< 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



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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.