

labservices@ionizationlabs.com  
512.277.3290



Prepared For: RAZAD Enterprises LLC  
Plano, TX 75024



**Sample Information**

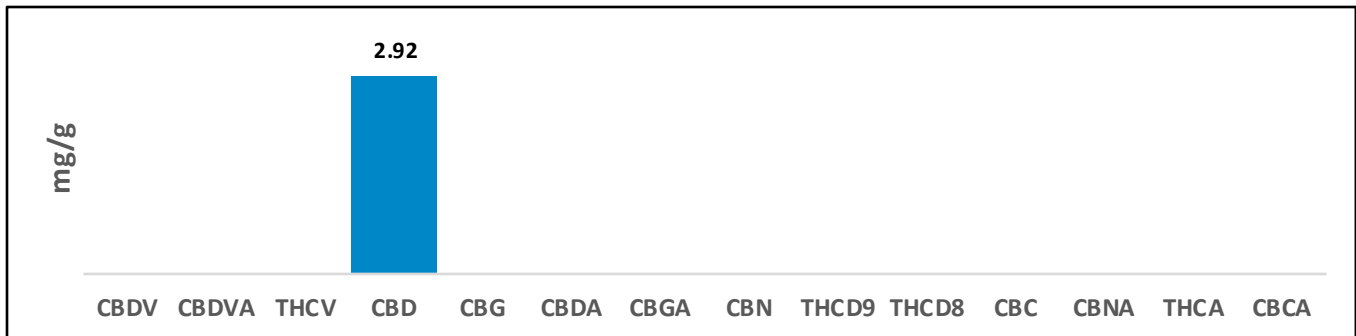
<b>Test Date:</b>	Sep 30, 2020, 1:17 PM	<b>Sample Type:</b>	Edibles
<b>Sample / Strain Name:</b>	Coffee Maui Wowie	<b>IL Unique ID:</b>	ILCTS318
<b>Lot # / Batch ID:</b>	29I0129		
<b>Sample Description:</b>	Brown coffee grounds		
<b>Notes:</b>	8 oz by weight per bag is converted to 226.80 grams		
<b>Analyst Name:</b>	Enrique Orci IV	<b>Reviewer Name:</b>	Ted Barton
<b>Analyst Signature:</b>	<i>Enrique Orci IV</i>	<b>Reviewer Signature:</b>	<i>Ted Barton</i>

**Cannabinoid Potency and Profile**

Cannabinoid	Result (%)	Result (mg/g)	mg / bag
CBDV	N/D	N/D	N/D
CBDVA	N/D	N/D	N/D
THCV	N/D	N/D	N/D
CBD	0.29%	2.92	662.24
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	N/D	N/D	N/D
CBCA	N/D	N/D	N/D
<b>Totals</b>	<b>0.29%</b>	<b>2.92</b>	<b>662.24</b>



<b>Total THC %</b>	<b>0.00%</b>
<b>Total THC mg / bag</b>	<b>0.00</b>
<b>Total CBD %</b>	<b>0.29%</b>
<b>Total CBD mg / bag</b>	<b>662.24</b>



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.

**ISO 17025 Accredited**  
**A2LA Certificate #: 5756.01**  
**Texas Dept of Ag Account #: TL2020003**



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



**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

**Customer:** Deschutes Labs  
**Product identity:** 1060418-2020-TS-25-ISO-01  
**Client/Metric ID:** .  
**Laboratory ID:** 20-010216-0002

**Sample Date:** 09/21/20 15:21

### Summary

**Potency:**

Analyte	Result (%)		
CBD	> 98.0		<ul style="list-style-type: none"> <li><span style="color: red;">●</span> CBD</li> <li><span style="color: blue;">●</span> CBDV</li> <li><span style="color: green;">●</span> 9-THC</li> <li><span style="color: yellow;">●</span> CBC</li> </ul>
CBDV <sup>†</sup>	0.832		
Δ9-THC	0.523		
CBC	0.393		
		CBD-Total	> 98.0%
		THC-Total	0.523%
		(Reported in percent of total sample)	

**Residual Solvents:**

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	203	5000	pass

**Pesticides:**

*All analytes passing and less than LOQ.*

**Metals:**

*Less than LOQ for all analytes.*

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**Customer:** Deschutes Labs

**Product identity:** 1060418-2020-TS-25-ISO-01  
**Client/Metric ID:** .  
**Sample Date:** 09/21/20 15:21  
**Laboratory ID:** 20-010216-0002  
**Relinquished by:** Received By Mail  
**Temp:** 22.2 °C

### Sample Results

Potency **Method J AOAC 2015 V98-6 (mod)** **Batch: 2007964** **Analyze: 9/26/20 12:18:00 AM**

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.393		0.0917	
CBC-A†	< LOQ		0.0917	
CBC-Total†	0.393		0.172	
CBD	> 98.0		0.917	
CBD-A	< LOQ		0.0917	
CBD-Total	> 98.0		0.997	
CBDV†	0.832		0.0917	
CBDV-A†	< LOQ		0.0917	
CBDV-Total†	0.832		0.171	
CBG†	< LOQ		0.0917	
CBG-A†	< LOQ		0.0917	
CBG-Total	< LOQ		0.171	
CBL†	< LOQ		0.0917	
CBN	< LOQ		0.0917	
Δ8-THC†	< LOQ		0.0917	
Δ9-THC	0.523		0.0917	
THC-A	< LOQ		0.0917	
THC-Total	0.523		0.172	
THCV†	< LOQ		0.0917	
THCV-A†	< LOQ		0.0917	
THCV-Total†	< LOQ		0.171	
<b>Total Cannabinoids†</b>	<b>&gt; 98.0</b>			





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Solvents						Method EPA5021A		Units µg/g		Batch 2007813		Analyze 09/23/20 01:18 PM	
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	203	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 2007914 Analyze 09/25/20 04:20 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	0.0476	2007930	09/25/20	AOAC 2013.06 (mod.)	X		
Cadmium	< LOQ		mg/kg	0.0476	2007930	09/25/20	AOAC 2013.06 (mod.)	X		
Lead	< LOQ		mg/kg	0.0476	2007930	09/25/20	AOAC 2013.06 (mod.)	X		
Mercury	< LOQ		mg/kg	0.0238	2007930	09/25/20	AOAC 2013.06 (mod.)	X		

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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

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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Hemp / Cannabis Usable / Extract  
Chain of Custody Record

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

20010216

Company: Deschutes Labs Contact: Drew Van Roekel Street: 2020 NW Industrial Park Rd City: Prineville State: OR Zip: 97754 <input checked="" type="checkbox"/> Email Results: Drew@Deschuteslabs.com Ph: (503) 809-9798 <input type="checkbox"/> Fx Results: ( ) Billing (if different):				<b>Analysis Requested</b> <table border="1"> <tr> <td>Potency</td> <td>Pesticides</td> <td>Residual Solvents</td> <td>Heavy Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								Potency	Pesticides	Residual Solvents	Heavy Metals							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							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 type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <small>*Ask for availability</small> Sampled by: _____			
Potency	Pesticides	Residual Solvents	Heavy Metals																																
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																
Lab ID	Client Sample Identification	Date	Time	Potency	Pesticides	Residual Solvents	Heavy Metals					Sample Type †	Weight (Units)	Comments/Metric ID																					
1	1060418-2020-TF-03-DIS-01	9/21/20	1344	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
2	1060418-2020-TS-25-IS-0-01	9/21/20	1521	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
3	1060418-2020-WHO-Full Spec MCT 01 WHO	9/21/20	1524	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
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Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:																											
Drew Van Roekel		09/21/20	1335			9-23-2020		<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (°C): 22.2 Sample in good condition: <input type="checkbox"/> Yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Prelog storage: _____																											

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

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info@columbiaboratories.com

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Received: 09/23/20 10:20



Columbia Laboratories  
Sample Receipt Form

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

Job Number: 20-010216 Search Name: \_\_\_\_\_

Package/Cooler opened on (if different than received date/time) Date: 9-23 Time: 1020

Received By (Initials): B

- 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): 1Z104E640193825032

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) 22.2c

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

EPA 5021				Batch ID: 2007813					
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		1020	1,190	µg/g	85.7	70	130
Isobutane	ND	< 200		1250	1,520	µg/g	82.2	70	130
Butane	ND	< 200		1260	1,520	µg/g	82.9	70	130
2,2-Dimethylpropane	ND	< 200		1620	1,910	µg/g	84.8	70	130
Methanol	ND	< 200		2730	3,240	µg/g	84.3	70	130
Ethylene Oxide	ND	< 30		100	117	µg/g	85.5	70	130
2-Methylbutane	ND	< 200		2760	3,220	µg/g	85.7	70	130
Pentane	ND	< 200		2730	3,210	µg/g	85.0	70	130
Ethanol	ND	< 200		2590	3,220	µg/g	80.4	70	130
Ethyl Ether	ND	< 200		2720	3,260	µg/g	83.4	70	130
2,2-Dimethylbutane	ND	< 30		341	431	µg/g	79.1	70	130
Acetone	ND	< 200		2820	3,210	µg/g	87.9	70	130
2-Propanol	ND	< 200		2550	3,180	µg/g	80.2	70	130
Acetonitrile	ND	< 100		844	983	µg/g	85.9	70	130
2,3-Dimethylbutane	ND	< 30		268	373	µg/g	71.8	70	130
Dichloromethane	ND	< 200		840	1,010	µg/g	83.2	70	130
2-Methylpentane	ND	< 30		268	330	µg/g	81.2	70	130
3-Methylpentane	ND	< 30		272	342	µg/g	79.5	70	130
Hexane	ND	< 30		258	321	µg/g	80.4	70	130
Ethyl acetate	ND	< 200		2770	3,260	µg/g	85.0	70	130
2-Butanol	ND	< 200		2490	3,210	µg/g	77.6	70	130
Tetrahydrofuran	ND	< 100		773	982	µg/g	78.7	70	130
Cyclohexane	ND	< 200		2630	3,210	µg/g	81.9	70	130
Benzene	ND	< 1		42.4	55.4	µg/g	76.5	70	130
Isopropyl Acetate	ND	< 200		2620	3,200	µg/g	81.9	70	130
Heptane	ND	< 200		2840	3,210	µg/g	88.5	70	130
1,4-Dioxane	ND	< 100		783	1,010	µg/g	77.5	70	130
2-Ethoxyethanol	ND	< 30		488	681	µg/g	71.7	70	130
Ethylene Glycol	ND	< 200		838	1,170	µg/g	71.6	70	130
Toluene	ND	< 200		774	980	µg/g	79.0	70	130
Ethylbenzene	ND	< 200		1530	1,970	µg/g	77.7	70	130
m,p-Xylene	ND	< 200		1560	1,950	µg/g	80.0	70	130
o-Xylene	ND	< 200		1580	1,940	µg/g	81.4	70	130
Cumene	ND	< 30		276	336	µg/g	82.1	70	130

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**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

QC - Sample Duplicate

Sample ID: 20-009946-0004

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

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.



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



**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

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		Laboratory Control Sample		Batch ID: 2007914	
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits
Acetate	0.026	< 0.200		0.950	1.000	95.0	68.1 - 126
Acetaminophen	0.000	< 1.000		3.976	4.000	99.4	69.5 - 129
Acetamiprid	0.000	< 0.100		0.389	0.400	97.2	69.0 - 128
Aldicarb	0.000	< 0.200		0.832	0.800	104.0	67.7 - 126
Abamectin	0.000	< 0.288		1.055	1.000	105.5	69.1 - 128
Azoxystrobin	0.012	< 0.100		0.356	0.400	89.0	69.0 - 128
Bifenthrin	0.018	< 0.100		0.394	0.400	98.5	68.1 - 126
Bifenthrin	0.087	< 0.100		0.357	0.400	89.3	71.2 - 132
Boscalid	0.076	< 0.100		0.951	0.800	118.9	68.3 - 127
Carbaryl	0.020	< 0.100		0.391	0.400	97.7	69.5 - 129
Carbofuran	0.010	< 0.100		0.385	0.400	96.3	69.1 - 128
Chlorantraniliprol	0.008	< 0.100		0.328	0.400	82.0	69.7 - 129
Chlorfenapyr	0.000	< 1.000		2.104	2.000	105.2	67.9 - 126
Chlorpyrifos	0.025	< 0.100		0.388	0.400	96.9	68.7 - 128
Clofentezine	0.005	< 0.100		0.375	0.400	93.8	67.0 - 124
Cyfluthrin	0.138	< 1.000		2.072	2.000	103.6	71.3 - 132
Cypermethrin	0.000	< 1.000		1.810	2.000	90.5	71.4 - 133
Daminozide	0.047	< 1.000		1.840	2.000	92.0	66.1 - 123
Diazinon	0.009	< 0.100		0.386	0.400	96.5	68.3 - 127
Dichlorvos	0.000	< 0.500		2.032	2.000	101.6	67.9 - 126
Dimethoat	0.006	< 0.100		0.385	0.400	96.3	68.6 - 127
Ethoprophos	0.000	< 0.100		0.329	0.400	82.3	68.0 - 126
Etofenprox	0.030	< 0.100		0.752	0.800	94.1	68.8 - 128
Etoxazol	0.000	< 0.100		0.375	0.400	93.8	68.4 - 127
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.8	68.8 - 128
Fenpyroximat	0.015	< 0.100		0.783	0.800	97.9	70.3 - 131
Fipronil	0.000	< 0.100		0.827	0.800	103.4	71.3 - 132
Flonicamid	0.020	< 0.400		0.891	1.000	89.1	69.5 - 129
Fludioxonil	0.000	< 0.100		0.926	0.800	115.7	69.0 - 128
Hexythiazox	0.025	< 0.400		0.998	1.000	99.8	71.0 - 132
Imazalil	0.003	< 0.100		0.385	0.400	96.3	71.6 - 133
Imidacloprid	0.000	< 0.200		0.706	0.800	88.3	67.9 - 126
Kresoxim-Methyl	0.000	< 0.100		0.759	0.800	94.9	69.2 - 128
Malathion	0.014	< 0.100		0.375	0.400	93.7	69.0 - 128
Metaxalyl	0.013	< 0.100		0.387	0.400	96.7	68.3 - 127
Methiocarb	0.000	< 0.100		0.391	0.400	97.8	68.7 - 128
Methomyl	0.000	< 0.200		0.768	0.800	96.0	67.6 - 126
MGK 264	0.000	< 0.100		0.387	0.400	96.6	69.8 - 130
Myclobutanil	0.015	< 0.100		0.383	0.400	95.7	67.8 - 126
Naled	0.031	< 0.200		0.998	1.000	99.8	68.8 - 128
Oxamyl	0.000	< 0.400		1.783	2.000	89.1	67.7 - 126
Paclobutrazol	0.000	< 0.200		0.724	0.800	90.5	67.6 - 126
Parathion Methyl	0.000	< 0.200		0.721	0.800	90.1	71.2 - 132
Permethrin	0.002	< 0.100		0.418	0.400	104.4	70.1 - 130
Phosmet	0.019	< 0.100		0.381	0.400	95.2	69.2 - 129
Piperonyl butoxide	0.000	< 1.000		2.073	2.000	103.6	69.8 - 130
Prallethrin	0.000	< 0.200		0.332	0.400	83.0	70.8 - 131
Propiconazole	0.001	< 0.200		0.773	0.800	96.7	68.7 - 128
Propoxur	0.003	< 0.100		0.399	0.400	99.8	67.9 - 126
Pyrethrins	0.008	< 0.500		0.390	0.413	94.3	70.0 - 130
Pyridaben	0.000	< 0.100		0.432	0.400	108.0	74.6 - 139
Spinosad	0.000	< 0.100		0.394	0.388	101.5	75.9 - 141
Spiromesifen	0.004	< 0.100		0.394	0.400	98.4	69.1 - 128
Spirotetramat	0.000	< 0.100		0.391	0.400	97.7	69.0 - 128
Spiroxamine	0.021	< 0.100		0.762	0.800	95.2	68.9 - 128
Tebuconazol	0.028	< 0.200		0.771	0.800	96.3	68.3 - 127
Thiacloprid	0.000	< 0.100		0.375	0.400	93.7	68.3 - 127
Thiamethoxam	0.000	< 0.100		0.371	0.400	92.7	68.0 - 126
Trifloxystrobin	0.002	< 0.100		0.394	0.400	98.6	69.4 - 129

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.



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



Report Number: 20-010216/D03.R00  
Report Date: 09/28/2020  
ORELAP#: OR100028  
Purchase Order:  
Received: 09/23/20 10:20

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: 2007914		
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 20-009946-0004								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.024	0.923	0.926	1.000	0.4	< 30	89.9	90.2	50 - 150	
Acequinocyl	0.000	3.884	3.383	4.000	13.8	< 30	97.1	84.6	50 - 150	
Acetamiprid	0.000	0.368	0.370	0.400	0.5	< 30	91.9	92.4	50 - 150	
Aldicarb	0.000	0.761	0.718	0.800	5.7	< 30	95.1	89.8	50 - 150	
Abamectin	0.000	1.524	1.656	1.000	8.3	< 30	152.4	165.6	50 - 150	Q1
Azoxystrobin	0.012	0.447	0.433	0.400	3.2	< 30	108.8	105.2	50 - 150	
Bifentazate	0.016	0.372	0.390	0.400	4.5	< 30	89.1	93.4	50 - 150	
Bifenthrin	0.000	0.676	1.212	0.400	56.9	< 30	168.9	303.1	50 - 150	R,Q1
Boscalid	0.063	0.838	0.777	0.800	7.5	< 30	96.8	89.2	50 - 150	
Carbaryl	0.019	0.384	0.384	0.400	0.0	< 30	91.3	91.2	50 - 150	
Carbofuran	0.009	0.372	0.374	0.400	0.4	< 30	90.8	91.1	50 - 150	
Chlorantraniliprol	0.008	0.400	0.398	0.400	0.3	< 30	98.0	97.7	50 - 150	
Chlorfenapyr	0.000	2.043	2.059	2.000	0.7	< 30	102.2	102.9	50 - 150	
Chlorpyrifos	0.007	0.479	0.459	0.400	4.3	< 30	118.1	113.0	50 - 150	
Clofentezine	0.004	0.412	0.412	0.400	0.2	< 30	101.9	102.1	50 - 150	
Cyfluthrin	0.068	3.246	3.138	2.000	3.4	< 30	158.9	153.5	30 - 150	Q1
Cypermethrin	0.000	1.707	1.776	2.000	3.9	< 30	85.4	88.8	50 - 150	
Daminozide	0.018	0.574	0.601	2.000	4.7	< 30	27.8	29.1	30 - 150	Q
Diazinon	0.007	0.414	0.411	0.400	0.7	< 30	101.7	101.0	50 - 150	
Dichlorvos	0.000	1.843	1.829	2.000	0.8	< 30	92.2	91.4	50 - 150	
Dimethoat	0.008	0.378	0.373	0.400	1.1	< 30	92.3	91.3	50 - 150	
Ethoprophos	0.000	0.344	0.327	0.400	5.1	< 30	86.1	81.8	50 - 150	
Etofenprox	0.085	0.837	0.878	0.800	4.8	< 30	94.0	99.1	50 - 150	
Etoxazol	0.000	0.365	0.383	0.400	5.0	< 30	91.2	95.8	50 - 150	
Fenoxycarb	0.000	0.381	0.382	0.400	0.1	< 30	95.3	95.4	50 - 150	
Fenpyroximat	0.003	0.776	0.797	0.800	2.7	< 30	96.6	99.3	50 - 150	
Fipronil	0.000	0.873	0.970	0.800	10.5	< 30	109.1	121.2	50 - 150	
Flonicamid	0.015	0.881	0.910	1.000	3.3	< 30	86.6	89.5	50 - 150	
Fludioxonil	0.000	0.648	0.816	0.800	22.9	< 30	81.0	101.9	50 - 150	
Hexythiazox	0.000	1.535	1.558	1.000	1.5	< 30	153.5	155.8	50 - 150	Q1
Imazalil	0.003	0.360	0.397	0.400	9.9	< 30	89.2	98.6	50 - 150	
Imidacloprid	0.000	0.706	0.707	0.800	0.2	< 30	88.3	88.4	50 - 150	
Kresoxim-Methyl	0.000	0.640	0.715	0.800	11.1	< 30	80.0	89.3	50 - 150	
Malathion	0.010	0.408	0.417	0.400	2.2	< 30	99.5	101.7	50 - 150	
Metaxalyl	0.012	0.385	0.372	0.400	3.6	< 30	93.3	89.9	50 - 150	
Methiocarb	0.000	0.390	0.384	0.400	1.5	< 30	97.4	96.0	50 - 150	
Methomyl	0.000	0.737	0.734	0.800	0.5	< 30	92.2	91.7	50 - 150	
MGK 264	0.000	0.351	0.355	0.400	1.3	< 30	87.7	88.8	50 - 150	
Myclobutanil	0.012	0.380	0.401	0.400	5.5	< 30	92.0	97.3	50 - 150	
Naled	0.028	0.942	0.985	1.000	4.4	< 30	91.5	95.7	50 - 150	
Oxamyl	0.000	1.821	1.788	2.000	1.8	< 30	91.1	89.4	50 - 150	
Paclobutrazol	0.000	0.711	0.730	0.800	2.6	< 30	88.9	91.2	50 - 150	
Parathion Methyl	0.000	0.745	0.798	0.800	6.9	< 30	93.1	99.8	30 - 150	
Permethrin	0.005	0.403	0.368	0.400	8.9	< 30	99.3	90.7	50 - 150	
Phosmet	0.017	0.389	0.372	0.400	4.5	< 30	92.9	88.6	50 - 150	
Piperonyl butoxide	0.000	2.111	2.104	2.000	0.3	< 30	105.5	105.2	50 - 150	
Prallethrin	0.000	0.387	0.405	0.400	4.6	< 30	96.7	101.2	50 - 150	
Propiconazole	0.000	0.825	0.833	0.800	1.1	< 30	103.1	104.2	50 - 150	
Propoxur	0.002	0.371	0.362	0.400	2.6	< 30	92.3	89.9	50 - 150	
Pyrethrins	0.000	0.369	0.385	0.413	4.4	< 30	89.3	93.3	50 - 150	
Pyridaben	0.000	0.276	0.274	0.400	0.6	< 30	68.9	68.5	50 - 150	
Spinosad	0.000	0.450	0.459	0.388	2.0	< 30	115.9	118.2	50 - 150	
Spiromesifen	0.000	0.402	0.382	0.400	5.1	< 30	100.4	95.4	50 - 150	
Spirotetramat	0.000	0.356	0.367	0.400	3.0	< 30	88.9	91.6	50 - 150	
Spiroxamine	0.019	0.741	0.765	0.800	3.2	< 30	90.2	93.2	50 - 150	
Tebuconazol	0.000	0.757	0.708	0.800	6.8	< 30	94.7	88.5	50 - 150	
Thiacloprid	0.000	0.377	0.367	0.400	2.8	< 30	94.3	91.7	50 - 150	
Thiamethoxam	0.000	0.333	0.349	0.400	4.7	< 30	83.2	87.2	50 - 150	
Trifloxystrobin	0.001	0.420	0.436	0.400	2.6	< 30	104.6	108.8	50 - 150	

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



**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

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: 2007964**

**Laboratory Control Sample**

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBDV	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBD-A	0.207	0.2	%	103	85.0 - 115	Acceptable	
CBG-A	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBG	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
CBD	0.217	0.2	%	108	85.0 - 115	Acceptable	
THCV	0.205	0.2	%	103	85.0 - 115	Acceptable	
THCVA	0.193	0.2	%	96.7	85.0 - 115	Acceptable	
CBN	0.205	0.2	%	102	85.0 - 115	Acceptable	
THC	0.207	0.2	%	104	85.0 - 115	Acceptable	
D8THC	0.189	0.2	%	94.4	85.0 - 115	Acceptable	
CBL	0.194	0.2	%	97.0	85.0 - 115	Acceptable	
CBC	0.202	0.2	%	101	85.0 - 115	Acceptable	
THCA	0.189	0.2	%	94.3	85.0 - 115	Acceptable	
CBCA	0.195	0.2	%	97.5	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



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



**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

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: 2007964						
Sample Duplicate		Sample ID: 20-009968-0003						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	0.762	0.758	0.1	%	0.588	< 20	Acceptable	
CBD	0.114	0.106	0.1	%	7.42	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	0.143	0.141	0.1	%	1.84	< 20	Acceptable	
THC	14.8	14.7	0.1	%	0.414	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.389	0.396	0.1	%	1.73	< 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  
503-254-1794



**Report Number:** 20-010216/D03.R00  
**Report Date:** 09/28/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/23/20 10:20

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.