



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



**Report Number:** 22-002312/D002.R000  
**Report Date:** 03/04/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/01/22 12:28

**Customer:** GVB Oregon  
**Product identity:** GVL-TST203  
**Client/Metric ID:** .  
**Laboratory ID:** 22-002312-0001

### Summary

**Potency:**

Analyte	Result (%)		
CBG-A†	77.9		CBD-Total <LOQ
CBG†	4.56		THC-Total <LOQ
CBC	0.285		(Reported in percent of total sample)
CBD	0.170		

**Residual Solvents:**

All analytes passing and less than LOQ.

**Pesticides:**

All analytes passing and less than LOQ.



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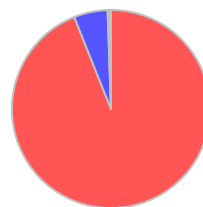
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**Customer:** GVB Oregon  
 United States of America (USA)  
**Product identity:** GVL-TST203  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-002312-0001  
**Evidence of Cooling:** No  
**Temp:** 22.5 °C  
**Relinquished by:** Client

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)		Units %	Batch: 2201897	Analyze: 3/4/22 10:35:00 AM
Analyte	As Received	Dry weight	LOQ	Notes	
CBC	0.285		0.0949		
CBC-A†	< LOQ		0.0949		
CBC-Total†	0.285		0.178		
CBD	0.170		0.0949		
CBD-A	< LOQ		0.0949		
CBD-Total	< LOQ		0.178		
CBDV†	< LOQ		0.0949		
CBDV-A†	< LOQ		0.0949		
CBDV-Total†	< LOQ		0.177		
CBE†	< LOQ		0.0949		
CBG†	4.56		0.0949		
CBG-A†	77.9		0.949		
CBG-Total	72.9		0.917		
CBL†	< LOQ		0.0949		
CBL-A†	< LOQ		0.0949		
CBL-Total†	< LOQ		0.178		
CBN	< LOQ		0.0949		
CBT†	< LOQ		0.0949		
Δ8-THC†	< LOQ		0.0949		
Δ8-THCV	< LOQ		0.0949		
Δ9-THC	< LOQ		0.0949		
THC-A	< LOQ		0.0949		
THC-Total	< LOQ		0.178		
THCV†	< LOQ		0.0949		
THCV-A†	< LOQ		0.0949		
THCV-Total†	< LOQ		0.177		
<b>Total Cannabinoids†</b>	<b>82.9</b>				



- CBG-A
- CBG
- CBD

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						Residual Solvents by GC/MS					
Method						Batch 2201856					
Analyze 03/03/22 10:26 AM						Analyze 03/03/22 10:26 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 (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< 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	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane (Isobutane)	< 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 benzene	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2201840 Analyze 03/03/22 08:08 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		Paclbutrazole	< 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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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, CCR title 16-division 42. BCC-section 5723

**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

Approved Signatory

Derrick Tanner  
General Manager



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**Cannabis Chain of Custody Record**

ORELAP ID: OR100028

Company: <b>GVB Oregon</b>		<b>Analysis Requested</b>											Purchase Order Number:				
Contact: Bharath Pogula		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Project Number:
Address:																	Project Name:
Email: testing@gvbbiopharma.com																	<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30
Phone: 973-722-5455 Fax:																	Other:
Processor's License: AG-R1065475IHH																	Comments/Metric ID
Field ID	Date/Time Collected																
GVL-TST203	2/28/22 4PM	X		X	X									NA	5 g	NA	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	<b>Lab Use Only:</b>
<input type="checkbox"/> Standard (5 day)	<i>PBU</i>	2/28/22	4PM	<i>[Signature]</i>	3-1-22	8:30	Client Alias:
<input checked="" type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	3-1-22	12:31	<i>DS</i>	3/1/22	12:28	Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 22.5°C
							Shipped Via: Client
							Evidence of cooling: <i>[Signature]</i>

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 2.00 Control#: CF023  
Effective 04/29/2019 Revised 04/29/2019

[www.pixislabs.com](http://www.pixislabs.com)  
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Revision: 3 Document ID 3120  
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

Method Blank	Units: mg/Kg		Laboratory Control Sample		Batch ID 2201840			
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.998	1.00	99.3	77.0 - 122	
Acephate	0.00	< 0.250		0.922	1.00	92.2	70.4 - 121	
Acequinocyl	0.00	< 1.00		4.326	4.00	108.2	82.0 - 114	
Acetamiprid	0.00	< 0.100		0.362	0.40	90.5	68.8 - 124	
Aldicarb	0.00	< 0.200		0.749	0.80	93.6	72.5 - 125	
Azoxystrobin	0.00	< 0.100		0.373	0.40	93.3	73.2 - 120	
Bfenazate	0.00	< 0.100		0.337	0.40	84.2	75.1 - 140	
Bfenathrin	0.00	< 0.100		0.387	0.40	96.8	74.5 - 117	
Boscalid	0.00	< 0.200		0.744	0.80	93.0	72.7 - 123	
Carbaryl	0.00	< 0.100		0.377	0.40	94.4	78.4 - 116	
Carbofuran	0.00	< 0.100		0.368	0.40	92.1	79.5 - 116	
Chlorantranilprole	0.00	< 0.100		0.345	0.40	86.3	83.8 - 113	
Chlorfenapyr	0.00	< 0.500		1.886	2.00	94.3	71.4 - 133	
Chlorpyrifos	0.00	< 0.100		0.369	0.40	92.2	72.8 - 115	
Clofentezane	0.00	< 0.100		0.363	0.40	90.7	79.0 - 112	
Cyfluthrin	0.00	< 0.500		1.907	2.00	95.4	69.4 - 124	
Cypermethrin	0.00	< 0.500		1.902	2.00	95.1	81.9 - 113	
Daminozide	0.089	< 0.500		1.510	2.00	75.5	71.7 - 133	
Diazinon	0.00	< 0.100		0.371	0.40	92.8	81.9 - 113	
Dichlorvos	0.00	< 0.500		1.851	2.00	92.6	81.7 - 109	
Dimethoate	0.00	< 0.100		0.366	0.40	91.5	82.6 - 111	
Ethoprophos	0.00	< 0.100		0.358	0.40	89.6	79.0 - 114	
Etofenprox	0.00	< 0.200		0.642	0.80	80.2	70.9 - 132	
Etoxazole	0.00	< 0.100		0.344	0.40	85.9	77.7 - 123	
Fenoxycarb	0.00	< 0.100		0.364	0.40	90.9	81.3 - 114	
Fenpyroximate	0.00	< 0.200		0.737	0.80	92.1	81.3 - 114	
Flpronil	0.00	< 0.200		0.746	0.80	93.2	81.9 - 120	
Flonicamid	0.00	< 0.250		0.966	1.00	96.6	68.4 - 126	
Fludioxonil	0.00	< 0.200		0.751	0.80	93.9	74.9 - 121	
Hexythiazox	0.00	< 0.250		0.888	1.00	88.8	71.7 - 122	
Imazalil	0.00	< 0.100		0.367	0.40	91.7	71.8 - 127	
Imidacloprid	0.00	< 0.200		0.771	0.80	96.4	76.8 - 116	
Kiesoxim-methyl	0.00	< 0.200		0.789	0.80	98.6	76.3 - 119	
Malathion	0.00	< 0.100		0.371	0.40	92.7	73.3 - 125	
Metaxalyl	0.00	< 0.100		0.368	0.40	92.0	80.6 - 112	
Methiocarb	0.00	< 0.100		0.355	0.40	88.7	79.1 - 117	
Methomyl	0.00	< 0.200		0.759	0.80	94.8	65.2 - 121	
MCK-264	0.00	< 0.100		0.381	0.40	95.3	76.3 - 118	
Myclobutanil	0.00	< 0.100		0.370	0.40	92.5	75.9 - 121	
Naled	0.00	< 0.250		0.901	1.00	90.1	84.2 - 107	
Oxaryl	0.00	< 0.500		1.892	2.00	94.6	72.9 - 117	
Padobutrazole	0.00	< 0.200		0.734	0.80	91.7	79.8 - 116	
Parathion-Methyl	0.00	< 0.200		0.662	0.80	82.8	73.0 - 132	
Permethrin	0.00	< 0.100		0.366	0.40	91.4	75.6 - 117	
Phosmet	0.00	< 0.100		0.375	0.40	93.6	77.7 - 119	
Piperonyl butoxide	0.00	< 0.500		1.798	2.00	89.6	70.5 - 131	
Prallethrin	0.00	< 0.100		0.375	0.40	93.7	75.8 - 120	
Propiconazole	0.00	< 0.200		0.712	0.80	89.0	80.4 - 116	
Propoxur	0.00	< 0.100		0.367	0.40	91.9	80.0 - 113	
Pyrethrin (Summe)	0.00	< 0.100		0.387	0.413	93.8	71.8 - 133	
Pyridaben	0.00	< 0.100		0.363	0.40	90.8	73.6 - 124	
Spinosad	0.00	< 0.100		0.346	0.388	88.8	72.8 - 135	
Spiromesfen	0.00	< 0.100		0.395	0.40	98.7	76.7 - 127	
Spirotetramet	0.00	< 0.100		0.361	0.40	90.3	81.4 - 115	
Spiroxamine	0.00	< 0.200		0.694	0.80	86.8	79.7 - 109	
Tebuconazole	0.00	< 0.200		0.719	0.80	89.8	79.5 - 117	
Thiadoprid	0.00	< 0.100		0.354	0.40	88.6	79.5 - 115	
Thiamethoxam	0.00	< 0.100		0.372	0.40	93.0	67.1 - 125	
Trifloxystrobin	0.00	< 0.100		0.357	0.40	89.1	77.8 - 115	



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Revision: 3 Document ID 3120  
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2201840			
Matrix Spk/Matrix Spk Duplicate Recoveries		Sample ID: 22-0023120001								
Analyte	Result	MSR <sub>es</sub>	MSD <sub>Res</sub>	Spike	RFD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.803	1.258	1.00	35.0%	< 30	88.3%	125.8%	50 - 150	R
Acephate	0.00	0.808	0.875	1.00	7.9%	< 30	80.8%	87.5%	50 - 150	
Acetamiprid	0.00	0.355	0.394	0.40	10.3%	< 30	89.0%	98.6%	50 - 150	
Aldicarb	0.00	0.680	0.768	0.80	12.2%	< 30	85.0%	96.0%	50 - 150	
Azoxystrobin	0.00	0.334	0.349	0.40	4.3%	< 30	82.9%	86.6%	50 - 150	
Bifenazate	0.00	0.388	0.419	0.40	13.0%	< 30	92.0%	104.9%	50 - 150	
Bifenthrin	0.00	0.281	0.312	0.40	10.7%	< 30	70.2%	78.1%	50 - 150	
Boscalid	0.00	0.709	0.817	0.80	14.2%	< 30	88.7%	102.2%	50 - 150	
Carbaryl	0.00	0.338	0.364	0.40	7.3%	< 30	84.6%	91.0%	50 - 150	
Carbofuran	0.00	0.330	0.357	0.40	7.8%	< 30	82.8%	89.1%	50 - 150	
Chlorantranilprole	0.00	0.338	0.385	0.40	13.2%	< 30	84.8%	96.6%	50 - 150	
Chlorfenapyr	0.00	1.570	1.691	2.00	7.4%	< 30	78.5%	84.8%	50 - 150	
Chlorpyrifos	0.00	0.345	0.408	0.40	16.6%	< 30	86.0%	101.6%	50 - 150	
Clofentezine	0.00	0.302	0.325	0.40	7.4%	< 30	75.4%	81.2%	50 - 150	
Cyfluthrin	0.00	0.585	0.498	2.00	16.2%	< 30	29.3%	24.9%	30 - 150	Q
Cypermethrin	0.00	1.644	1.791	2.00	8.5%	< 30	82.2%	89.6%	50 - 150	
Daminozide	0.115	2.557	2.797	2.00	9.4%	< 30	122.1%	134.1%	30 - 150	
Diazinon	0.00	0.343	0.377	0.40	9.7%	< 30	85.6%	94.3%	50 - 150	
Dichlorvos	0.00	1.605	1.751	2.00	8.6%	< 30	80.3%	87.5%	50 - 150	
Dimethoate	0.00	0.355	0.390	0.40	9.3%	< 30	88.8%	97.4%	50 - 150	
Ethoprophos	0.00	0.342	0.384	0.40	11.6%	< 30	85.4%	96.0%	50 - 150	
Etofenprox	0.00	0.495	0.625	0.80	23.1%	< 30	62.0%	78.2%	50 - 150	
Etoxazole	0.00	0.310	0.337	0.40	8.1%	< 30	77.6%	84.1%	50 - 150	
Fenoxycarb	0.00	0.325	0.364	0.40	11.2%	< 30	81.2%	90.9%	50 - 150	
Fenpyroximate	0.00	0.741	0.769	0.80	3.7%	< 30	92.6%	96.1%	50 - 150	
Flpronil	0.00	0.555	0.613	0.80	9.7%	< 30	69.9%	76.6%	50 - 150	
Fonicamid	0.00	1.073	1.043	1.00	2.8%	< 30	107.3%	104.3%	50 - 150	
Fludioxonil	0.00	0.693	0.837	0.80	18.8%	< 30	86.7%	104.6%	50 - 150	
Hexythiazox	0.00	0.762	0.829	1.00	8.5%	< 30	76.2%	82.9%	50 - 150	
Imazalil	0.00	0.363	0.384	0.40	5.7%	< 30	90.6%	96.0%	50 - 150	
Imidacloprid	0.00	0.794	0.855	0.80	7.4%	< 30	99.2%	106.8%	50 - 150	
Kiesoxim-methyl	0.00	0.685	0.802	0.80	15.7%	< 30	85.6%	100.2%	50 - 150	
Malathion	0.039	0.405	0.428	0.40	5.8%	< 30	91.8%	97.4%	50 - 150	
Metaxalyl	0.00	0.352	0.382	0.40	8.0%	< 30	88.0%	95.4%	50 - 150	
Methiocarb	0.00	0.329	0.387	0.40	16.2%	< 30	82.3%	96.7%	50 - 150	
Methomyl	0.00	0.838	0.833	0.80	0.6%	< 30	104.8%	104.2%	50 - 150	
MCK-264	0.00	0.325	0.352	0.40	8.2%	< 30	81.2%	88.1%	50 - 150	
Mydobutanol	0.00	0.359	0.393	0.40	9.0%	< 30	89.1%	98.1%	50 - 150	
Naled	0.00	0.777	0.838	1.00	7.5%	< 30	77.7%	83.8%	50 - 150	
Oxaryl	0.00	2.148	2.118	2.00	1.4%	< 30	107.4%	105.9%	50 - 150	
Padobutrazole	0.00	0.699	0.755	0.80	7.7%	< 30	87.4%	94.4%	50 - 150	
Parathion-Methyl	0.00	0.745	0.777	0.80	4.2%	< 30	93.1%	97.1%	30 - 150	
Permethrin	0.00	0.312	0.339	0.40	8.5%	< 30	77.9%	84.8%	50 - 150	
Phosmet	0.00	0.349	0.379	0.40	8.2%	< 30	87.3%	94.7%	50 - 150	
Piperonyl butoxide	0.00	1.676	1.852	2.00	10.0%	< 30	83.8%	92.6%	50 - 150	
Prallethrin	0.00	0.345	0.351	0.40	2.0%	< 30	86.1%	87.9%	50 - 150	
Propiconazole	0.00	0.695	0.777	0.80	11.3%	< 30	86.8%	97.2%	50 - 150	
Propoxur	0.00	0.353	0.382	0.40	8.0%	< 30	88.2%	95.6%	50 - 150	
Pyrethrin (Summe)	0.00	0.395	0.415	0.413	5.2%	< 30	95.5%	100.6%	50 - 150	
Pyridaben	0.00	0.284	0.303	0.40	6.6%	< 30	70.9%	75.8%	50 - 150	
Spinosad	0.00	0.315	0.350	0.388	10.5%	< 30	81.3%	90.3%	50 - 150	
Spiromesfen	0.00	0.273	0.295	0.40	8.1%	< 30	68.1%	73.9%	50 - 150	
Spirotetramat	0.00	0.357	0.413	0.40	14.5%	< 30	89.2%	103.1%	50 - 150	
Spiroxamine	0.00	0.692	0.762	0.80	9.6%	< 30	86.5%	95.2%	50 - 150	
Tebuconazole	0.00	0.621	0.689	0.80	10.3%	< 30	77.7%	86.1%	50 - 150	
Thiadoprid	0.00	0.358	0.395	0.40	10.2%	< 30	89.4%	99.0%	50 - 150	
Thiamethoxam	0.00	0.420	0.427	0.40	1.6%	< 30	105.0%	106.7%	50 - 150	
Trifloxystrobin	0.00	0.346	0.378	0.40	8.8%	< 30	86.5%	94.4%	50 - 150	





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



**Report Number:** 22-002312/D002.R000  
**Report Date:** 03/04/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/01/22 12:28

Revision: Document ID:  
 Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2201856				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		666	572	µg/g	116.4	70	130
Isobutane	ND	< 200		869	731	µg/g	118.9	70	130
Butane	ND	< 200		870	731	µg/g	119.0	70	130
2,2-Dimethylpropane	ND	< 200		1100	936	µg/g	117.5	70	130
Methanol	ND	< 200		1670	1610	µg/g	103.7	70	130
Ethylene Oxide	ND	< 30		72.3	56.2	µg/g	129.7	70	130
2-Methylbutane	ND	< 200		1660	1630	µg/g	101.8	70	130
Pentane	ND	< 200		1640	1610	µg/g	101.9	70	130
Ethanol	ND	< 200		1590	1630	µg/g	97.5	70	130
Ethyl Ether	ND	< 200		1600	1610	µg/g	99.4	70	130
2,2-Dimethylbutane	ND	< 30		163	165	µg/g	98.8	70	130
Acetone	ND	< 200		1720	1610	µg/g	106.8	70	130
2-Propanol	ND	< 200		1650	1610	µg/g	102.5	70	130
Ethyl Formate	ND	< 500		1400	1620	µg/g	86.4	70	130
Acetonitrile	ND	< 100		498	498	µg/g	99.6	70	130
Methyl Acetate	ND	< 500		2010	1810	µg/g	111.0	70	130
2,3-Dimethylbutane	ND	< 30		172	162	µg/g	106.2	70	130
Dichloromethane	ND	< 60		473	498	µg/g	95.0	70	130
2-Methylpentane	ND	< 30		173	167	µg/g	103.6	70	130
MTBE	ND	< 500		1600	1610	µg/g	99.4	70	130
3-Methylpentane	ND	< 30		166	179	µg/g	92.7	70	130
Hexane	ND	< 30		153	164	µg/g	93.3	70	130
1-Propanol	ND	< 500		1680	1620	µg/g	103.7	70	130
Methyl ethyl ketone	ND	< 500		1850	1770	µg/g	104.5	70	130
Ethyl acetate	ND	< 200		1640	1620	µg/g	101.2	70	130
2-Butanol	ND	< 200		1480	1600	µg/g	92.5	70	130
Tetrahydrofuran	ND	< 100		478	500	µg/g	95.6	70	130
Cyclohexane	ND	< 200		1620	1610	µg/g	100.6	70	130
2-methyl-1-propanol	ND	< 500		1540	1610	µg/g	95.7	70	130
Benzene	ND	< 1		6.12	5.62	µg/g	108.9	70	130
Isopropyl Acetate	ND	< 200		1740	1610	µg/g	108.1	70	130
Heptane	ND	< 200		1690	1610	µg/g	105.0	70	130
1-Butanol	ND	< 500		1600	1620	µg/g	98.8	70	130
Propyl Acetate	ND	< 500		1780	1620	µg/g	109.9	70	130
1,4-Dioxane	ND	< 100		398	502	µg/g	79.3	70	130
2-Ethoxyethanol	ND	< 30		163	164	µg/g	99.4	70	130
Methylisobutylketone	ND	< 500		1720	1620	µg/g	106.2	70	130
3-Methyl-1-butanol	ND	< 500		1510	1620	µg/g	93.2	70	130
Ethylene Glycol	ND	< 200		465	502	µg/g	92.6	70	130
Toluene	ND	< 200		460	488	µg/g	94.3	70	130
Isobutyl Acetate	ND	< 500		1950	1700	µg/g	114.7	70	130
1-Pentanol	ND	< 500		1350	1630	µg/g	82.8	70	130
Butyl Acetate	ND	< 500		1460	1660	µg/g	88.0	70	130
Ethylbenzene	ND	< 200		893	965	µg/g	92.5	70	130
m,p-Xylene	ND	< 200		875	990	µg/g	88.4	70	130
o-Xylene	ND	< 200		874	971	µg/g	90.0	70	130
Cumene	ND	< 30		160	179	µg/g	89.4	70	130
Anisole	ND	< 500		1360	1650	µg/g	82.4	70	130
DMSD	ND	< 500		1290	1630	µg/g	79.1	70	130
1,2-dimethoxyethane	ND	< 50		213	183	µg/g	116.4	70	130
Tetrahydrofuran	ND	< 500		1520	1620	µg/g	93.8	70	130
N,N-dimethylformamide	ND	< 150		412	495	µg/g	83.2	70	130
N,N-dimethylacetamide	ND	< 150		358	502	µg/g	71.3	70	130
Pyridine	ND	< 50		181	186	µg/g	97.3	70	130
1,2-Dichloroethane	ND	< 1		1.18	1	µg/g	118.0	70	130
Chloroform	ND	< 1		1.12	1	µg/g	112.0	70	130
Trichloroethylene	ND	< 1		1.02	1	µg/g	102.0	70	130



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CC - Simple Duplicate Sample ID: 22-002278-0001

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	
Hexane	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	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MIBK	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	
Methyl ethyl ketone	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	1.1	1.09	1	µg/g	0.9	< 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	
DMSD	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Tertylamine	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	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethylene	ND	ND	1	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:** 22-002312/D002.R000  
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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6 Batch ID: 2201897**

Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.190	0.2	%	95.1	85.0	- 115	Acceptable	
CBDV	0.202	0.2	%	101	85.0	- 115	Acceptable	
CBE	0.188	0.2	%	94.2	85.0	- 115	Acceptable	
CBDA	0.198	0.2	%	98.9	85.0	- 115	Acceptable	
CBGA	0.186	0.2	%	93.1	85.0	- 115	Acceptable	
CBG	0.197	0.2	%	98.3	85.0	- 115	Acceptable	
CBD	0.201	0.2	%	100	85.0	- 115	Acceptable	
THCV	0.193	0.2	%	96.3	85.0	- 115	Acceptable	
d8THCV	0.201	0.2	%	101	85.0	- 115	Acceptable	
THCVA	0.184	0.2	%	91.8	85.0	- 115	Acceptable	
CBN	0.196	0.2	%	98.2	85.0	- 115	Acceptable	
exo-THC	0.181	0.2	%	90.4	85.0	- 115	Acceptable	
d9THC	0.183	0.2	%	91.6	85.0	- 115	Acceptable	
d8THC	0.192	0.2	%	96.1	85.0	- 115	Acceptable	
CBL	0.174	0.2	%	87.0	85.0	- 115	Acceptable	
CBC	0.200	0.2	%	100	85.0	- 115	Acceptable	
THCA	0.186	0.2	%	92.9	85.0	- 115	Acceptable	
CBCA	0.187	0.2	%	93.6	85.0	- 115	Acceptable	
CBLA	0.190	0.2	%	95.1	85.0	- 115	Acceptable	
CBT	0.193	0.2	%	96.5	85.0	- 115	Acceptable	

**Method Blank**

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.1	%	< 0.1	Acceptable	
CBDV	< LOQ	0.1	%	< 0.1	Acceptable	
CBE	< LOQ	0.1	%	< 0.1	Acceptable	
CBDA	< LOQ	0.1	%	< 0.1	Acceptable	
CBGA	< 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	
d8THCV	< LOQ	0.1	%	< 0.1	Acceptable	
THCVA	< LOQ	0.1	%	< 0.1	Acceptable	
CBN	< LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	< LOQ	0.1	%	< 0.1	Acceptable	
d9THC	< 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	
CBLA	< LOQ	0.1	%	< 0.1	Acceptable	
CBT	< 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  
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**Report Number:** 22-002312/D002.R000  
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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2201897								
Sample Duplicate								
Sample ID: 22-002285-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.317	0.336	0.1	%	5.71	< 20	Acceptable	
CBE	3.27	3.76	0.1	%	14.1	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBG	0.610	0.654	0.1	%	7.01	< 20	Acceptable	
CBD	67.5	65.9	0.1	%	2.36	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBN	1.46	1.60	0.1	%	9.40	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBL	< LOQ	0.102	0.1	%	NA	< 20	Acceptable	
CBC	1.52	1.66	0.1	%	8.87	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBT	1.96	2.12	0.1	%	7.67	< 20	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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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.