Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-014768/D015.R001
Report Date: 12/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/02/22 08:38

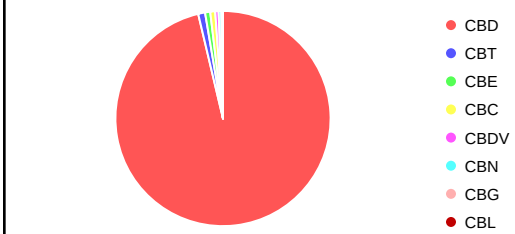
This is an amended version of report# 22-014768/D015.R000.
Reason: Client Request.

Customer: GVB Oregon
Product identity: BSD GVL-TST401
Client/Metrc ID: .
Laboratory ID: 22-014768-0001

Summary

Potency:

Analyte	Result (%)
CBD	85.6
CBT	0.919
CBE	0.688
CBC	0.661
CBDV	0.445
CBN	0.361
CBG	0.150
CBL	0.0706



CBD-Total 85.6%

THC-Total <LOQ

(Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Customer: GVB Oregon
United States of America (USA)
Product identity: BSD GVL-TST401
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-014768-0001
Evidence of Cooling: No
Temp: 16.7
Relinquished by: UPS

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2210364 **Analyze:** 12/6/22 12:13:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.661		0.0677	
CBC-A	< LOQ		0.0677	
CBC-Total	0.661		0.127	
CBD	85.6		0.677	
CBD-A	< LOQ		0.0677	
CBD-Total	85.6		0.736	
CBDV	0.445		0.0677	
CBDV-A	< LOQ		0.0677	
CBDV-Total	0.445		0.126	
CBE	0.688		0.0677	
CBG	0.150		0.0677	
CBG-A	< LOQ		0.0677	
CBG-Total	0.150		0.126	
CBL	0.0706		0.0677	
CBL-A	< LOQ		0.0677	
CBL-Total	< LOQ		0.127	
CBN	0.361		0.0677	
CBT	0.919		0.0677	
Δ10-THC	< LOQ		0.0677	
Δ8-THC	< LOQ		0.0677	
Δ8-THCV	< LOQ		0.0677	
Δ9-THC	< LOQ		0.0677	
exo-THC	< LOQ		0.0677	
THC-A	< LOQ		0.0677	
THC-Total	< LOQ		0.127	
THCV	< LOQ		0.0677	
THCV-A	< LOQ		0.0677	
THCV-Total	< LOQ		0.126	
Total Cannabinoids	88.9			

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2210303	12/07/22	AOAC 991.14 (Petrifilm)þ		I
Total Coliforms	< LOQ		cfu/g	10	2210303	12/07/22	AOAC 991.14 (Petrifilm)þ		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210304	12/08/22	AOAC 2014.05 (RAPID)þ		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210304	12/08/22	AOAC 2014.05 (RAPID)þ		I

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2210431 **Analyze** 12/08/22 12:14 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 (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	500	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)þ **Units** mg/kg **Batch** 2210327 **Analyze** 12/05/22 03:28 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ	0.50	0.250	pass		Acephate¥	< LOQ	0.40	0.200	pass	
Acequinocyl¥	< LOQ	2.0	1.00	pass		Acetamiprid¥	< LOQ	0.20	0.100	pass	
Aldicarb¥	< LOQ	0.40	0.200	pass		Azoxystrobin¥	< LOQ	0.20	0.100	pass	
Bifenazate¥	< LOQ	0.20	0.100	pass		Bifenthrin¥	< LOQ	0.20	0.100	pass	
Boscalid¥	< LOQ	0.40	0.200	pass		Carbaryl¥	< LOQ	0.20	0.100	pass	
Carbofuran¥	< LOQ	0.20	0.100	pass		Chlorantraniliprole¥	< LOQ	0.20	0.100	pass	
Chlorfenapyr¥	< LOQ	1.0	0.500	pass		Chlorpyrifos¥	< LOQ	0.20	0.100	pass	
Clofentezine¥	< LOQ	0.20	0.100	pass		Cyfluthrin¥	< LOQ	1.0	0.500	pass	
Cypermethrin¥	< LOQ	1.0	0.500	pass		Daminozide¥	< LOQ	1.0	0.500	pass	
Diazinon¥	< LOQ	0.20	0.100	pass		Dichlorvos¥	< LOQ	1.0	0.500	pass	
Dimethoate¥	< LOQ	0.20	0.100	pass		Ethoprophos¥	< LOQ	0.20	0.100	pass	
Etofenprox¥	< LOQ	0.40	0.200	pass		Etoxazole¥	< LOQ	0.20	0.100	pass	
Fenoxycarb¥	< LOQ	0.20	0.100	pass		Fenpyroximate¥	< LOQ	0.40	0.200	pass	
Fipronil¥	< LOQ	0.40	0.200	pass		Flonicamid¥	< LOQ	1.0	0.400	pass	
Fludioxonil¥	< LOQ	0.40	0.200	pass		Hexythiazox¥	< LOQ	1.0	0.400	pass	
Imazalil¥	< LOQ	0.20	0.100	pass		Imidacloprid¥	< LOQ	0.40	0.200	pass	
Kresoxim-methyl¥	< LOQ	0.40	0.200	pass		Malathion¥	< LOQ	0.20	0.100	pass	
Metalaxyl¥	< LOQ	0.20	0.100	pass		Methiocarb¥	< LOQ	0.20	0.100	pass	
Methomyl¥	< LOQ	0.40	0.200	pass		MGK-264¥	< LOQ	0.20	0.100	pass	
Myclobutanil¥	< LOQ	0.20	0.100	pass		Naled¥	< LOQ	0.50	0.250	pass	
Oxamyl¥	< LOQ	1.0	0.500	pass		Paclobutrazole¥	< LOQ	0.40	0.200	pass	
Parathion-Methyl¥	< LOQ	0.20	0.100	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	0.100	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	Analyzed	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0912	2210412	12/07/22	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0912	2210412	12/07/22	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0912	2210412	12/07/22	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.0456	2210412	12/07/22	AOAC 2013.06 (mod.)þ	pass	

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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.

þ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram
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

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager

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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2210327

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		1.135	1.000	113.5	50.0	150	
Acephate	0.000	< 0.200		0.849	0.800	106.2	60.0	120	
Acequinocyl	0.000	< 1.000		4.042	4.000	101.1	40.0	160	
Acetamiprid	0.000	< 0.100		0.444	0.400	111.1	60.0	120	
Aldicarb	0.000	< 0.200		0.852	0.800	106.5	60.0	120	
Azoxystrobin	0.000	< 0.100		0.434	0.400	108.6	60.0	120	
Bifenazate	0.000	< 0.100		0.610	0.400	***152.5***	60.0	120	Q1
Bifenthrin	0.000	< 0.100		0.418	0.400	104.4	50.0	150	
Boscalid	0.000	< 0.200		0.876	0.800	109.4	60.0	120	
Carbaryl	0.000	< 0.100		0.432	0.400	108.1	60.0	120	
Carbofuran	0.000	< 0.100		0.437	0.400	109.4	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.410	0.400	102.5	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.212	2.000	110.6	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.438	0.400	109.5	60.0	120	
Clofentezine	0.000	< 0.100		0.445	0.400	111.3	60.0	120	
Cyfluthrin	0.000	< 0.500		2.002	2.000	100.1	50.0	150	
Cypermethrin	0.000	< 0.500		2.134	2.000	106.7	50.0	150	
Daminozide	0.000	< 0.500		2.918	2.000	***145.9***	60.0	120	Q1
Diazinon	0.000	< 0.100		0.476	0.400	118.9	60.0	120	
Dichlorvos	0.000	< 0.500		1.943	2.000	97.2	60.0	120	
Dimethoate	0.000	< 0.100		0.429	0.400	107.2	60.0	120	
Ethoprophos	0.000	< 0.100		0.438	0.400	109.6	60.0	120	
Etofenprox	0.000	< 0.200		0.841	0.800	105.1	50.0	150	
Etoxazole	0.000	< 0.100		0.430	0.400	107.4	60.0	120	
Fenoxycarb	0.000	< 0.100		0.439	0.400	109.7	60.0	120	
Fenpyroximate	0.000	< 0.200		0.829	0.800	103.6	60.0	120	
Fipronil	0.000	< 0.200		0.886	0.800	110.8	60.0	120	
Flonicamid	0.000	< 0.250		1.078	1.000	107.8	60.0	120	
Fludioxonil	0.000	< 0.200		0.888	0.800	111.0	50.0	150	
Hexythiazox	0.000	< 0.250		1.080	1.000	108.0	60.0	120	
Imazalil	0.000	< 0.100		0.444	0.400	111.1	60.0	120	
Imidacloprid	0.000	< 0.200		0.858	0.800	107.3	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.866	0.800	108.2	60.0	120	
Malathion	0.000	< 0.100		0.450	0.400	112.6	60.0	120	
Metalaxyl	0.000	< 0.100		0.427	0.400	106.6	60.0	120	
Methiocarb	0.000	< 0.100		0.435	0.400	108.8	60.0	120	
Methomyl	0.000	< 0.200		0.853	0.800	106.6	60.0	120	
MGK-264	0.000	< 0.100		0.422	0.400	105.5	50.0	150	
Myclobutanil	0.000	< 0.100		0.449	0.400	112.1	60.0	120	
Naled	0.000	< 0.250		1.056	1.000	105.6	50.0	150	
Oxamyl	0.000	< 0.500		2.112	2.000	105.6	60.0	120	
Paclobutrazole	0.000	< 0.200		0.904	0.800	113.0	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.422	0.400	105.5	50.0	150	
Permethrin	0.010	< 0.100		0.421	0.400	105.1	50.0	150	
Phosmet	0.000	< 0.100		0.447	0.400	111.8	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.138	2.000	106.9	60.0	120	
Prallethrin	0.000	< 0.100		0.412	0.400	103.1	60.0	120	
Propiconazole	0.000	< 0.200		0.877	0.800	109.7	60.0	120	
Propoxur	0.000	< 0.100		0.428	0.400	107.1	60.0	120	
Pyrethrin (Summe)	0.002	< 0.100		0.525	0.488	107.5	60.0	120	
Pyridaben	0.000	< 0.100		0.431	0.400	107.7	50.0	150	
Spinosad	0.000	< 0.100		0.421	0.388	108.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.438	0.400	109.4	60.0	120	
Spirotetramat	0.000	< 0.100		0.438	0.400	109.4	60.0	120	
Spiroxamine	0.000	< 0.200		0.838	0.800	104.8	60.0	120	
Tebuconazole	0.000	< 0.200		0.937	0.800	117.2	60.0	120	
Thiacloprid	0.000	< 0.100		0.436	0.400	108.9	60.0	120	
Thiamethoxam	0.000	< 0.100		0.429	0.400	107.2	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.419	0.400	104.9	60.0	120	

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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2210327

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID:** 22-014435-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.870	0.888	1.000	2.0%	< 30	87.0%	88.8%	50 - 150	
Acephate	0.000	0.794	0.849	0.800	6.6%	< 30	99.3%	106.1%	50 - 150	
Acequinocyl	0.000	3.409	4.500	4.000	27.6%	< 30	85.2%	112.5%	50 - 150	
Acetamiprid	0.000	0.429	0.433	0.400	0.9%	< 30	107.3%	108.3%	50 - 150	
Aldicarb	0.000	0.808	0.810	0.800	0.3%	< 30	101.0%	101.3%	50 - 150	
Azoxystrobin	0.000	0.426	0.412	0.400	3.3%	< 30	106.5%	103.0%	50 - 150	
Bifenazate	0.000	0.590	0.609	0.400	3.2%	< 30	147.5%	152.3%	50 - 150	Q
Bifenthrin	0.000	0.328	0.374	0.400	13.2%	< 30	81.9%	93.5%	50 - 150	
Boscalid	0.000	0.784	0.743	0.800	5.4%	< 30	98.0%	92.9%	50 - 150	
Carbaryl	0.000	0.408	0.405	0.400	0.7%	< 30	102.0%	101.3%	50 - 150	
Carbofuran	0.000	0.426	0.411	0.400	3.5%	< 30	106.4%	102.8%	50 - 150	
Chlorantraniliprole	0.000	0.404	0.400	0.400	1.0%	< 30	101.0%	100.0%	50 - 150	
Chlorfenapyr	0.000	2.166	2.277	2.000	5.0%	< 30	108.3%	113.9%	50 - 150	
Chlorpyrifos	0.000	0.454	0.430	0.400	5.4%	< 30	113.6%	107.6%	50 - 150	
Clofentezine	0.000	0.415	0.425	0.400	2.4%	< 30	103.7%	106.3%	50 - 150	
Cyfluthrin	0.000	0.655	0.700	2.000	6.5%	< 30	32.8%	35.0%	30 - 150	
Cypermethrin	0.000	0.635	0.665	2.000	4.7%	< 30	31.7%	33.3%	50 - 150	Q
Daminozide	0.438	2.644	2.856	2.000	9.2%	< 30	110.3%	120.9%	30 - 150	
Diazinon	0.000	0.462	0.476	0.400	3.0%	< 30	115.4%	118.9%	50 - 150	
Dichlorvos	0.000	1.830	1.968	2.000	7.3%	< 30	91.5%	98.4%	50 - 150	
Dimethoate	0.000	0.408	0.414	0.400	1.4%	< 30	102.1%	103.5%	50 - 150	
Ethoprophos	0.000	0.411	0.417	0.400	1.4%	< 30	102.8%	104.3%	50 - 150	
Etofenprox	0.000	0.726	0.800	0.800	9.8%	< 30	90.7%	100.1%	50 - 150	
Etoxazole	0.000	0.369	0.361	0.400	2.1%	< 30	92.3%	90.3%	50 - 150	
Fenoxycarb	0.000	0.419	0.437	0.400	4.3%	< 30	104.8%	109.3%	50 - 150	
Fenpyroximate	0.000	0.431	0.460	0.800	6.3%	< 30	53.9%	57.4%	50 - 150	
Fipronil	0.000	0.841	0.787	0.800	6.6%	< 30	105.1%	98.3%	50 - 150	
Flonicamid	0.000	1.060	1.088	1.000	2.6%	< 30	106.0%	108.8%	50 - 150	
Fludioxonil	0.000	0.833	0.854	0.800	2.6%	< 30	104.1%	106.8%	50 - 150	
Hexythiazox	0.000	1.155	1.111	1.000	3.9%	< 30	115.5%	111.1%	50 - 150	
Imazalil	0.000	0.430	0.443	0.400	3.1%	< 30	107.4%	110.9%	50 - 150	
Imidacloprid	0.000	0.818	0.831	0.800	1.7%	< 30	102.2%	103.9%	50 - 150	
Kresoxim-methyl	0.000	0.844	0.838	0.800	0.7%	< 30	105.5%	104.7%	50 - 150	
Malathion	0.000	0.417	0.425	0.400	1.9%	< 30	104.3%	106.3%	50 - 150	
Metalaxyl	0.000	0.413	0.423	0.400	2.4%	< 30	103.3%	105.8%	50 - 150	
Methiocarb	0.000	0.392	0.408	0.400	4.0%	< 30	98.0%	102.0%	50 - 150	
Methomyl	0.000	0.820	0.856	0.800	4.3%	< 30	102.5%	107.0%	50 - 150	
MGK-264	0.000	0.416	0.426	0.400	2.5%	< 30	103.9%	106.5%	50 - 150	
Myclobutanil	0.000	0.439	0.462	0.400	5.1%	< 30	109.8%	115.6%	50 - 150	
Naled	0.000	0.988	0.999	1.000	1.1%	< 30	98.8%	99.9%	50 - 150	
Oxamyl	0.000	2.086	2.336	2.000	11.3%	< 30	104.3%	116.8%	50 - 150	
Paclobutrazole	0.000	0.848	0.864	0.800	1.9%	< 30	106.0%	108.0%	50 - 150	
Parathion-Methyl	0.000	0.381	0.461	0.400	19.0%	< 30	95.3%	115.3%	30 - 150	
Permethrin	0.007	0.308	0.324	0.400	5.3%	< 30	75.2%	79.3%	50 - 150	
Phosmet	0.000	0.424	0.424	0.400	0.0%	< 30	106.1%	106.0%	50 - 150	
Piperonyl butoxide	0.000	1.927	2.004	2.000	3.9%	< 30	96.3%	100.2%	50 - 150	
Prallethrin	0.000	0.442	0.431	0.400	2.5%	< 30	110.6%	107.8%	50 - 150	
Propiconazole	0.008	0.831	0.858	0.800	3.1%	< 30	102.9%	106.2%	50 - 150	
Propoxur	0.000	0.410	0.412	0.400	0.6%	< 30	102.4%	103.1%	50 - 150	
Pyrethrin (Summe)	0.001	0.398	0.431	0.488	7.9%	< 30	81.4%	88.1%	50 - 150	
Pyridaben	0.000	0.416	0.428	0.400	2.8%	< 30	104.0%	107.0%	50 - 150	
Spinosad	0.000	0.373	0.351	0.388	6.0%	< 30	96.1%	90.5%	50 - 150	
Spiromesifen	0.000	0.426	0.427	0.400	0.3%	< 30	106.4%	106.7%	50 - 150	
Spirotetramat	0.000	0.449	0.444	0.400	1.1%	< 30	112.2%	110.9%	50 - 150	
Spiroxamine	0.000	0.833	0.858	0.800	3.0%	< 30	104.1%	107.2%	50 - 150	
Tebuconazole	0.000	0.868	0.883	0.800	1.7%	< 30	108.5%	110.4%	50 - 150	
Thiacloprid	0.000	0.418	0.427	0.400	2.1%	< 30	104.5%	106.8%	50 - 150	
Thiamethoxam	0.000	0.444	0.447	0.400	0.7%	< 30	111.1%	111.8%	50 - 150	
Trifloxystrobin	0.000	0.391	0.388	0.400	0.9%	< 30	97.8%	96.9%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number: 22-014768/D015.R001
Report Date: 12/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/02/22 08:38

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2210364**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.106	0.102	%	103	80.0 - 120	Acceptable	
CBDV	2	0.110	0.106	%	103	80.0 - 120	Acceptable	
CBE	2	0.108	0.106	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0949	0.096	%	99.1	90.0 - 110	Acceptable	
CBGA	1	0.0952	0.097	%	98.7	80.0 - 120	Acceptable	
CBG	1	0.0952	0.095	%	99.9	80.0 - 120	Acceptable	
CBD	1	0.0933	0.096	%	97.6	90.0 - 110	Acceptable	
THCV	2	0.0996	0.102	%	97.7	80.0 - 120	Acceptable	
d8THCV	2	0.104	0.109	%	96.0	80.0 - 120	Acceptable	
THCVA	2	0.108	0.100	%	109	80.0 - 120	Acceptable	
CBN	1	0.0933	0.099	%	94.2	80.0 - 120	Acceptable	
exo-THC	2	0.0929	0.098	%	94.6	80.0 - 120	Acceptable	
d9THC	1	0.0959	0.102	%	94.2	90.0 - 110	Acceptable	
d8THC	1	0.0916	0.100	%	91.5	90.0 - 110	Acceptable	
CBL	2	0.0935	0.100	%	93.4	80.0 - 120	Acceptable	
d10THC	1	0.0848	0.092	%	92.1	80.0 - 120	Acceptable	
CBC	2	0.0995	0.105	%	95.0	80.0 - 120	Acceptable	
THCA	1	0.0867	0.096	%	90.5	90.0 - 110	Acceptable	
CBCA	2	0.109	0.103	%	106	80.0 - 120	Acceptable	
CBLA	2	0.110	0.106	%	104	80.0 - 120	Acceptable	
CBT	2	0.0858	0.110	%	78.1	80.0 - 120	Acceptable	Q6

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDV	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBE	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBD	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBN	<LOQ	0.0077	%	< 0.0077	Acceptable	
exo-THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBL	<LOQ	0.0077	%	< 0.0077	Acceptable	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBC	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<LOQ	0.0077	%	< 0.0077	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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ORELAP#: OR100028
Purchase Order:
Received: 12/02/22 08:38

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2210364**

Sample Duplicate Sample ID: **22-014760-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	0.174	0.174	0.077	%	0.0196	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	32.1	32.2	0.077	%	0.103	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	0.133	0.133	0.077	%	0.210	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	0.245	0.247	0.077	%	0.636	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	0.340	0.334	0.077	%	1.69	< 20	Acceptable	

Abbreviations

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

Units of Measure:

Columbia LABORATORIES
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Report Date: 12/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/02/22 08:38

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2210431

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		534	572	µg/g	93.4	60	-	120	
Isobutane	ND	<	200		601	731	µg/g	82.2	60	-	120	
Butane	ND	<	200		600	731	µg/g	82.1	60	-	120	
2,2-Dimethylpropane	ND	<	200		909	936	µg/g	97.1	60	-	120	
Methanol	ND	<	200		1460	1620	µg/g	90.1	60	-	120	
Ethylene Oxide	ND	<	30		53.4	56.2	µg/g	95.0	60	-	120	
2-Methylbutane	ND	<	200		1450	1610	µg/g	90.1	60	-	120	
Pentane	ND	<	200		1440	1600	µg/g	90.0	60	-	120	
Ethanol	ND	<	200		1430	1610	µg/g	88.8	70	-	130	
Ethyl Ether	ND	<	200		1440	1630	µg/g	88.3	60	-	120	
2,2-Dimethylbutane	ND	<	30		158	171	µg/g	92.4	60	-	120	
Acetone	ND	<	200		1430	1630	µg/g	87.7	60	-	120	
2-Propanol	ND	<	200		1460	1620	µg/g	90.1	60	-	120	
Ethyl Formate	ND	<	500		1460	1670	µg/g	87.4	70	-	130	
Acetonitrile	ND	<	100		447	498	µg/g	89.8	60	-	120	
Methyl Acetate	ND	<	500		1480	1730	µg/g	85.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		143	171	µg/g	83.6	60	-	120	
Dichloromethane	ND	<	60		437	483	µg/g	90.5	60	-	120	
2-Methylpentane	ND	<	30		174	168	µg/g	103.6	60	-	120	
MTBE	ND	<	500		1400	1650	µg/g	84.8	70	-	130	
3-Methylpentane	ND	<	30		132	167	µg/g	79.0	60	-	120	
Hexane	ND	<	30		189	182	µg/g	103.8	60	-	120	
1-Propanol	ND	<	500		1460	1620	µg/g	90.1	70	-	130	
Methylethylketone	ND	<	500		1400	1620	µg/g	86.4	70	-	130	
Ethyl acetate	ND	<	200		1430	1610	µg/g	88.8	60	-	120	
2-Butanol	ND	<	200		1390	1600	µg/g	86.9	60	-	120	
Tetrahydrofuran	ND	<	100		411	483	µg/g	85.1	60	-	120	
Cyclohexane	ND	<	200		1420	1610	µg/g	88.2	60	-	120	
2-methyl-1-propanol	ND	<	500		1420	1620	µg/g	87.7	70	-	130	
Benzene	ND	<	1		4.89	5.02	µg/g	97.4	60	-	120	
Isopropyl Acetate	ND	<	200		1450	1620	µg/g	89.5	60	-	120	
Heptane	ND	<	200		1430	1610	µg/g	88.8	60	-	120	
1-Butanol	ND	<	500		1370	1630	µg/g	84.0	70	-	130	
Propyl Acetate	ND	<	500		1380	1610	µg/g	85.7	70	-	130	
1,4-Dioxane	ND	<	100		412	491	µg/g	83.9	60	-	120	
2-Ethoxyethanol	ND	<	30		158	181	µg/g	87.3	60	-	120	
Methylisobutylketone	ND	<	500		1410	1620	µg/g	87.0	70	-	130	
3-Methyl-1-butanol	ND	<	500		1420	1630	µg/g	87.1	70	-	130	
Ethylene Glycol	ND	<	200		383	484	µg/g	79.1	60	-	120	
Toluene	ND	<	100		420	485	µg/g	86.6	60	-	120	
Isobutyl Acetate	ND	<	500		1400	1630	µg/g	85.9	70	-	130	
1-Pentanol	ND	<	500		1350	1620	µg/g	83.3	70	-	130	
Butyl Acetate	ND	<	500		1310	1620	µg/g	80.9	70	-	130	
Ethylbenzene	ND	<	200		817	969	µg/g	84.3	60	-	120	
m,p-Xylene	ND	<	200		835	994	µg/g	84.0	60	-	120	
o-Xylene	ND	<	200		801	967	µg/g	82.8	60	-	120	
Cumene	ND	<	30		152	171	µg/g	88.9	60	-	120	
Anisole	ND	<	500		1410	1630	µg/g	86.5	70	-	130	
DMSO	ND	<	500		1420	1680	µg/g	84.5	70	-	130	
1,2-dimethoxyethane	ND	<	50		146	169	µg/g	86.4	70	-	130	
Triethylamine	ND	<	500		1360	1630	µg/g	83.4	70	-	130	
N,N-dimethylformamide	ND	<	150		355	482	µg/g	73.7	70	-	130	
N,N-dimethylacetamide	ND	<	150		414	510	µg/g	81.2	70	-	130	
Pyridine	ND	<	50		169	203	µg/g	83.3	70	-	130	
Sulfolane	ND	<	50		124	172	µg/g	72.1	70	-	130	
1,2-Dichloroethane	ND	<	1		0.974	1	µg/g	97.4	70	-	130	
Chloroform	ND	<	1		1	1	µg/g	100.0	70	-	130	
Trichloroethylene	ND	<	1		0.957	1	µg/g	95.7	70	-	130	
1,1-Dichloroethane	ND	<	1		0.965	1	µg/g	96.5	70	-	130	

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Report Number: 22-014768/D015.R001
Report Date: 12/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/02/22 08:38

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC - Sample Duplicate **Sample ID: 22-014201-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	
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	100	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	
Sulfolane	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	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-014768/D015.R001
Report Date:	12/12/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	12/02/22 08:38

Columbia LABORATORIES
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Report Number: 22-014768/D015.R001
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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	Quantitaion 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.