Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D004.R001
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

This is an amended version of report# 21-009903/D004.R000.
Reason: Sample re-extracted for potency.

Customer: GVB Oregon
United States of America (USA)

Product identity: BSD B#20008 Primary
Client/Metrc ID: .
Sample Date: 08/27/21 11:00
Laboratory ID: 21-009903-0001
Evidence of Cooling: No
Temp: 25 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Units** % **Batch:** 2108764 **Analyze:** 9/29/21 1:39:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.892		0.0916	
CBC-A†	< LOQ		0.0916	
CBC-Total†	0.892		0.172	
CBD	89.1		0.916	
CBD-A	< LOQ		0.0916	
CBD-Total	89.1		0.996	
CBDV†	0.461		0.0916	
CBDV-A†	< LOQ		0.0916	
CBDV-Total†	0.461		0.171	
CBE†	0.848		0.0916	
CBG†	0.284		0.0916	
CBG-A†	< LOQ		0.0916	
CBG-Total	0.284		0.171	
CBL†	< LOQ		0.0916	
CBL-A†	< LOQ		0.0916	
CBL-Total†	< LOQ		0.172	
CBN	0.522		0.0916	
CBT†	0.858		0.0916	
Δ8-THC†	< LOQ		0.0916	
Δ8-THCV	< LOQ		0.0916	
Δ9-THC	< LOQ		0.0916	
THC-A	< LOQ		0.0916	
THC-Total	< LOQ		0.172	
THCV†	< LOQ		0.0916	
THCV-A†	< LOQ		0.0916	
THCV-Total†	< LOQ		0.171	
Total Cannabinoids†	93.0			

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Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2107743 **Analyze** 08/30/21 10:43 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	20.0	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	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	618	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	< LOQ	2170	600	pass	

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ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2107764 **Analyze** 08/30/21 04:58 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		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	0.200	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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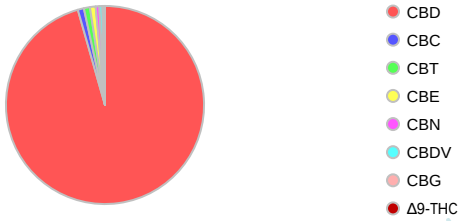
Customer: GVB Oregon
United States of America (USA)
Product identity: BSD B#20008 Dup
Client/Metrc ID:
Sample Date: 08/27/21 11:00
Laboratory ID: 21-009903-0002
Evidence of Cooling: No
Temp: 25 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Units** % **Batch:** 2108698 **Analyze:** 9/28/21 11:33:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.940		0.0980	
CBC-A†	< LOQ		0.0980	
CBC-Total†	0.940		0.184	
CBD	90.1		0.980	
CBD-A	< LOQ		0.0980	
CBD-Total	90.1		1.07	
CBDV†	0.469		0.0980	
CBDV-A†	< LOQ		0.0980	
CBDV-Total†	0.469		0.183	
CBE†	0.880		0.0980	
CBG†	0.298		0.0980	
CBG-A†	< LOQ		0.0980	
CBG-Total	0.298		0.183	
CBL†	< LOQ		0.0980	
CBL-A†	< LOQ		0.0980	
CBL-Total†	< LOQ		0.184	
CBN	0.551		0.0980	
CBT†	0.932		0.0980	
Δ8-THC†	< LOQ		0.0980	
Δ8-THCV	< LOQ		0.0980	
Δ9-THC	0.100		0.0980	
THC-A	< LOQ		0.0980	
THC-Total	< LOQ		0.184	
THCV†	< LOQ		0.0980	
THCV-A†	< LOQ		0.0980	
THCV-Total†	< LOQ		0.183	
Total Cannabinoids†	94.3			



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Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2107743 **Analyze** 08/30/21 10:43 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	20.0	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	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	627	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	< LOQ	2170	600	pass	

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Received: 08/27/21 23:59

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2107764 **Analyze** 08/30/21 04:58 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		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	0.200	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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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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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Statistical Analysis:
BSD B#20008

	Analysis mg/g						
	CBD	CBD-A	CBD-Total	CBN	THC	THC-A	THC-Total
21-009903-0001	891	< 0.916	891	5.22	< 0.916	< 0.916	< 1.72
21-009903-0002	901	< 0.98	901	5.51	1	< 0.98	< 1.84
Average mg/g	896	n/a	896	5.365	0.958	n/a	n/a
Stdev	5.00	0.000	5.00	0.145	0.0420	0.000	0.000
%RPD	1.1%	0.0%	1.1%	5.4%	8.8%	0.0%	0.0%
Pass/Fail (<15%RPD)	n/a	n/a	n/a	n/a	n/a	n/a	Pass

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Phone: (503)254-1794 Fax: (503)254-1452

Cannabis Chain of Custody Record

Columbia LABORATORIES
ORELAP ID: OR100028
OLCC license #: 1003224D558

Client Information		Purchase Order:	
Company:	GVB Biopharma	Project #:	21-009903
Contact:	Chelsea Thomas	Project ID:	21-009903
Address:	212 NE North St., Grass Valley, Oregon 97029	☐ -	Send to State (METRC) &/or OHA
Email:	rob@gvbbiopharma.com	☐ -	Email Final Results:
Phone:	909-660-2939 Fax:		
Processor's License:	AG-R1065475IHH	Bill to email/address:	

Sample #	Columbia Sample ID	Lot#/Metrc Tag ID#	Matrix	Product/Strain Name	Date Sampled	Sample Weight (g)	Pesticides - OR 59 Compounds	Pesticide Multi-Residue - 379 Compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast & Mold	Micro: E.Coli & Total Coliform	Heavy Metals	Mycotoxins	Other
							Analysis Requested											
1	21-009903-0001		Extract - Distillate	BSD B#20008 Primary	8/27/2021	16.00	✓		✓	✓								
2	21-009903-0002		Extract - Distillate	BSD B#20008 Dup	8/27/2021	16.00	✓		✓	✓								
3	21-009903-0003		Extract - Distillate	Transport Blank - No Charge	8/27/2021	#REF!				✓								

Collected By:	Relinquished By:	Date	Time	Received By:	Date	Time	Labs Use Only:
☐ Standard 5 day		8/27/21	10:36		8/27/21	10:36	Client Alias:
☒ Rush (1.5 x Standard)		8/27/21	1:04		8/27/21	13:16	Order Number:
☐ Priority Rush (2 x Standard)							☐ Proper Container
Ask About Availability							☐ Sample Condition
							☒ Temperature: °C 10.4
							☒ Shipped Via:
							Evidence of cooling: ☐Yes ☐ No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO COLUMBIA LABORATORIES WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE LAST PAGE OF THIS FORM

Revision: 0.00 Control#: CF004
Effective date: 03/20/2020 Revision Date: 03/20/2020

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Purchase Order:
Received: 08/27/21 23:59

Columbia Laboratories
Sampling Record/Field Data

CS Labs Sampling Template Revision 0.00 Control CF041
Revision date: 01/07/2021 Effective Date DRAFT/2021

Processor/Client: GVB Biopharma
Location: 212 NE North St. Grass Valley, Oregon 97029
OHA License #: AG-R1065475IHH
Requester: Chelsea Thomas
SOP: C913_Extracts and Concentrate Sampling

Date: 8/27/2021
Sampler: Giuffrida
Sampling Event/Project ID: 21-009903
Balance ID: B-20
Thermometer ID:

Weight Used (g)	Serial #	Acceptance Limits	Initial Measured	Initial Result	Final Measured	Final Result
0.10	CFL-000481	(+/-0.0005g):	0.10	Acceptable	0.10	Acceptable
50.00	CFL-000482	(+/-0.025g):	50.00	Acceptable	50.00	Acceptable

Container type	Batch #,Lot # or METRC ID		Product type	Strain ID	Harvest/Prod Date		Batch size (lbs.)	
Glass Jar	n.a		Extract - Distillate	BSD B#20008 Primary	8/26/2021		200.00	
	Product Temp ©	# of containers	# of increments	primary sample (ml)				
	65.7	1	16	1.00				

Increment Log

Increment ID #1 ID	Sample Media	Container ID	Inc. Zone	Media Wt. (g)	Vol. Sample (ml)	Wt. Inc. & Media (g)	Sample Weight	MetrcID
21-009903-0001	10ml Vial	Container ID.1	t2	15.03	1.0	16.03	1.00	
21-009903-0001	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t4		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	m1		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	m2		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	m1		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t4		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	b3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	b3		1.0		1.00	
21-009903-0001	10ml Vial	Container ID.1	t4		1.0		1.00	
Totals							16.00	

Observations:	batch numbers	marks/labels	container types/sizes	Uniform	plant colors	Shape & Size	Plan or Procedure
Note any inconsistencies or abnormalities	No	No	No	No	No	No	No

Comments:

Container type	Batch #,Lot # or METRC ID		Product type	Strain ID	Harvest/Prod Date		Batch size (lbs.)	
Glass Jar	n.a		Extract - Distillate	BSD B#20008 Dup	8/26/2021		200.00	
	Product Temp ©	# of containers	# of increments	primary sample (ml)				
	65.7	1	16	1.00				

Increment Log

Increment ID #1 ID	Sample Media	Container ID	Inc. Zone	Media Wt. (g)	Vol. Sample (ml)	Wt. Inc. & Media (g)	Sample Weight	MetrcID
21-009903-0002	10ml Vial	Container ID.1	m4	15.23	1.0	16.23	1.00	
21-009903-0002	10ml Vial	Container ID.1	b3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	t3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m4		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m2		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m1		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	t2		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	t2		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	t4		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	b3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m1		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m3		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	m4		1.0		1.00	
21-009903-0002	10ml Vial	Container ID.1	t3		1.0		1.00	
Totals							16.00	

Observations:	batch numbers	marks/labels	container types/sizes	Uniform	plant colors	Shape & Size	Plan or Procedure
Note any inconsistencies or abnormalities	No	No	No	No	No	No	No

Comments:

Sampled By: _____
Date: 8/27/21
Time: 10:36

Accepted By: _____
Date: 8/27/21
Time: 10:36

OLCC license #: 1003224D558
ORELAP#: OR100028

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Page 1 of 1

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D004.R001
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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: 2108764**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
CBDV	0.218	0.2	%	109	85.0 - 115	Acceptable	
CBE	0.201	0.2	%	101	85.0 - 115	Acceptable	
CBDA	0.212	0.2	%	106	85.0 - 115	Acceptable	
CBGA	0.193	0.2	%	96.5	85.0 - 115	Acceptable	
CBG	0.206	0.2	%	103	85.0 - 115	Acceptable	
CBD	0.207	0.2	%	104	85.0 - 115	Acceptable	
THCV	0.198	0.2	%	99.1	85.0 - 115	Acceptable	
d8THCV	0.194	0.2	%	97.0	85.0 - 115	Acceptable	
THCVA	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
CBN	0.209	0.2	%	105	85.0 - 115	Acceptable	
exo-THC	0.189	0.2	%	94.7	85.0 - 115	Acceptable	
d9THC	0.199	0.2	%	99.7	85.0 - 115	Acceptable	
d8THC	0.196	0.2	%	98.2	85.0 - 115	Acceptable	
CBL	0.184	0.2	%	91.9	85.0 - 115	Acceptable	
CBC	0.203	0.2	%	102	85.0 - 115	Acceptable	
THCA	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBCA	0.200	0.2	%	99.8	85.0 - 115	Acceptable	
CBLA	0.209	0.2	%	104	85.0 - 115	Acceptable	
CBT	0.197	0.2	%	98.3	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D004.R001
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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: 2108764**

Sample Duplicate Sample ID: **21-009903-0001-02**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.461	0.454	0.1	%	1.53	< 20	Acceptable	
CBE	0.848	0.839	0.1	%	1.05	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	0.284	0.276	0.1	%	2.92	< 20	Acceptable	
CBD	89.1	87.7	0.1	%	1.51	< 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	0.522	0.508	0.1	%	2.69	< 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	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.892	0.869	0.1	%	2.52	< 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	0.858	0.746	0.1	%	13.9	< 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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2107743

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		504	595	µg/g	84.7	70	-	130	
Isobutane	ND	<	200		610	761	µg/g	80.2	70	-	130	
Butane	ND	<	200		614	761	µg/g	80.7	70	-	130	
2,2-Dimethylpropane	ND	<	200		845	955	µg/g	88.5	70	-	130	
Methanol	ND	<	200		1570	1610	µg/g	97.5	70	-	130	
Ethylene Oxide	ND	<	30		45.5	58.3	µg/g	78.0	70	-	130	
2-Methylbutane	ND	<	200		1360	1610	µg/g	84.5	70	-	130	
Pentane	ND	<	200		1440	1620	µg/g	88.9	70	-	130	
Ethanol	ND	<	200		1520	1610	µg/g	94.4	70	-	130	
Ethyl Ether	ND	<	200		1570	1610	µg/g	97.5	70	-	130	
2,2-Dimethylbutane	ND	<	30		162	172	µg/g	94.2	70	-	130	
Acetone	ND	<	200		1500	1600	µg/g	93.8	70	-	130	
2-Propanol	ND	<	200		1520	1620	µg/g	93.8	70	-	130	
Ethyl Formate	ND	<	500		1330	1610	µg/g	82.6	70	-	130	
Acetonitrile	ND	<	100		472	501	µg/g	94.2	70	-	130	
Methyl Acetate	ND	<	500		1530	1610	µg/g	95.0	70	-	130	
2,3-Dimethylbutane	ND	<	30		142	163	µg/g	87.1	70	-	130	
Dichloromethane	ND	<	60		452	483	µg/g	93.6	70	-	130	
2-Methylpentane	ND	<	30		156	164	µg/g	95.1	70	-	130	
MTBE	ND	<	500		1620	1600	µg/g	101.3	70	-	130	
3-Methylpentane	ND	<	30		166	164	µg/g	101.2	70	-	130	
Hexane	ND	<	30		167	163	µg/g	102.5	70	-	130	
1-Propanol	ND	<	500		1300	1620	µg/g	80.2	70	-	130	
Methylethylketone	ND	<	500		1450	1610	µg/g	90.1	70	-	130	
Ethyl acetate	ND	<	200		1580	1610	µg/g	98.1	70	-	130	
2-Butanol	ND	<	200		1470	1620	µg/g	90.7	70	-	130	
Tetrahydrofuran	ND	<	100		484	500	µg/g	96.8	70	-	130	
Cyclohexane	ND	<	200		1470	1610	µg/g	91.3	70	-	130	
2-methyl-1-propanol	ND	<	500		1340	1610	µg/g	83.2	70	-	130	
Benzene	ND	<	1		3.82	5.42	µg/g	70.5	70	-	130	
Isopropyl Acetate	ND	<	200		1460	1600	µg/g	91.3	70	-	130	
Heptane	ND	<	200		1520	1600	µg/g	95.0	70	-	130	
1-Butanol	ND	<	500		1220	1620	µg/g	75.3	70	-	130	
Propyl Acetate	ND	<	500		1360	1610	µg/g	84.5	70	-	130	
1,4-Dioxane	ND	<	100		527	490	µg/g	107.6	70	-	130	
2-Ethoxyethanol	ND	<	30		129	163	µg/g	79.1	70	-	130	
Methylisobutylketone	ND	<	500		1350	1620	µg/g	83.3	70	-	130	
3-Methyl-1-butanol	ND	<	500		1250	1610	µg/g	77.6	70	-	130	
Ethylene Glycol	ND	<	200		397	484	µg/g	82.0	70	-	130	
Toluene	ND	<	200		508	482	µg/g	105.4	70	-	130	
Isobutyl Acetate	ND	<	500		1380	1620	µg/g	85.2	70	-	130	
1-Pentanol	ND	<	500		1300	1620	µg/g	80.2	70	-	130	
Butyl Acetate	ND	<	500		1370	1620	µg/g	84.6	70	-	130	
Ethylbenzene	ND	<	200		975	970	µg/g	100.5	70	-	130	
m,p-Xylene	ND	<	200		926	991	µg/g	93.4	70	-	130	
o-Xylene	ND	<	200		846	967	µg/g	87.5	70	-	130	
Cumene	ND	<	30		153	169	µg/g	90.5	70	-	130	
Anisole	ND	<	500		1660	1640	µg/g	101.2	70	-	130	
DMSO	ND	<	500		1820	1620	µg/g	112.3	70	-	130	
1,2-dimethoxyethane	ND	<	50		142	162	µg/g	87.7	70	-	130	
Triethylamine	ND	<	500		1330	1610	µg/g	82.6	70	-	130	
N,N-dimethylformamide	ND	<	150		317	487	µg/g	65.1	70	-	130	Q2, Q6
N,N-dimethylacetamide	ND	<	150		510	492	µg/g	103.7	70	-	130	
Pyridine	ND	<	50		125	165	µg/g	75.8	70	-	130	
Trichloroethylene	ND	<	1		0.878	1	µg/g	87.8	70	-	130	
Chloroform	ND	<	1		0.917	1	µg/g	91.7	70	-	130	
1,2-Dichloroethane	ND	<	1		1	1	µg/g	100.0	70	-	130	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

QC- Sample Duplicate — Sample ID: 21-009891-0001

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	901	1300	200	µg/g	36.3	< 20	FAIL	Q4
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	
Tduene	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	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-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
Q2 - Quality control outside QClimits. Data considered estimate.
Q4 - Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q6 - Quality control outside QClimits. Data acceptable based on remaining QC.

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: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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:** 2107764

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID: 21-009670-0003**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.003	0.856	0.896	1.000	4.6%	< 30	85.3%	89.3%	50 - 150	
Acequinocyl	0.000	4.246	2.578	4.000	48.9%	< 30	106.1%	64.5%	50 - 150	R
Acetamiprid	0.000	0.366	0.370	0.400	1.1%	< 30	91.5%	92.5%	50 - 150	
Aldicarb	0.000	0.877	0.694	0.800	23.3%	< 30	109.7%	86.8%	50 - 150	
Abamectin	0.000	0.919	0.972	1.000	5.6%	< 30	91.9%	97.2%	50 - 150	
Azoxystrobin	0.009	0.354	0.361	0.400	1.9%	< 30	86.3%	88.0%	50 - 150	
Bifenazate	0.000	0.363	0.376	0.400	3.4%	< 30	90.8%	93.9%	50 - 150	
Bifenthrin	0.000	0.340	0.324	0.400	4.8%	< 30	85.0%	81.1%	50 - 150	
Boscalid	0.000	0.745	0.665	0.800	11.4%	< 30	93.2%	83.1%	50 - 150	
Carbaryl	0.000	0.354	0.343	0.400	3.1%	< 30	88.5%	85.7%	50 - 150	
Carbofuran	0.000	0.387	0.317	0.400	19.8%	< 30	96.7%	79.2%	50 - 150	
Chlorantraniliprol	0.000	0.357	0.338	0.400	5.6%	< 30	89.3%	84.5%	50 - 150	
Chlorfenapyr	0.000	1.784	1.774	2.000	0.6%	< 30	89.2%	88.7%	50 - 150	
Chlorpyrifos	0.000	0.280	0.290	0.400	3.5%	< 30	69.9%	72.4%	50 - 150	
Clofentezine	0.000	0.325	0.342	0.400	5.1%	< 30	81.3%	85.6%	50 - 150	
Cyfluthrin	0.000	1.746	1.923	2.000	9.6%	< 30	87.3%	96.2%	30 - 150	
Cypermethrin	0.000	1.833	1.977	2.000	7.6%	< 30	91.6%	98.9%	50 - 150	
Daminozide	0.050	1.768	1.891	2.000	6.9%	< 30	85.9%	92.0%	30 - 150	
Diazinon	0.054	0.388	0.389	0.400	0.5%	< 30	83.4%	83.8%	50 - 150	
Dichlorvos	0.000	1.803	1.701	2.000	5.8%	< 30	90.2%	85.0%	50 - 150	
Dimethoat	0.000	0.354	0.381	0.400	7.5%	< 30	88.4%	95.3%	50 - 150	
Ethoprophos	0.000	0.327	0.339	0.400	3.6%	< 30	81.8%	84.8%	50 - 150	
Etofenprox	0.000	0.849	0.685	0.800	21.4%	< 30	106.1%	85.7%	50 - 150	
Etoxazol	0.000	0.349	0.398	0.400	13.1%	< 30	87.2%	99.5%	50 - 150	
Fenoxycarb	0.000	0.350	0.324	0.400	7.6%	< 30	87.5%	81.1%	50 - 150	
Fenpyroximat	0.000	0.727	0.814	0.800	11.3%	< 30	90.9%	101.8%	50 - 150	
Fipronil	0.000	0.573	0.624	0.800	8.5%	< 30	71.6%	78.0%	50 - 150	
Flonicamid	0.000	0.899	0.906	1.000	0.8%	< 30	89.9%	90.6%	50 - 150	
Fludioxonil	0.000	0.864	0.800	0.800	7.6%	< 30	108.0%	100.0%	50 - 150	
Hexythiazox	0.000	0.423	0.465	1.000	9.4%	< 30	42.3%	46.5%	50 - 150	Q
Imazalil	0.000	0.363	0.362	0.400	0.3%	< 30	90.9%	90.6%	50 - 150	
Imidacloprid	0.000	0.718	0.750	0.800	4.3%	< 30	89.8%	93.7%	50 - 150	
Kresoxim-Methyl	0.000	0.700	0.750	0.800	6.8%	< 30	87.5%	93.7%	50 - 150	
Malathion	0.000	0.324	0.348	0.400	7.0%	< 30	81.0%	86.9%	50 - 150	
Metalaxyl	0.000	0.350	0.345	0.400	1.6%	< 30	87.6%	86.2%	50 - 150	
Methiocarb	0.000	0.298	0.339	0.400	13.0%	< 30	74.5%	84.8%	50 - 150	
Methomyl	0.000	0.713	0.721	0.800	1.2%	< 30	89.1%	90.2%	50 - 150	
MGK 264	0.000	0.341	0.383	0.400	11.5%	< 30	85.3%	95.7%	50 - 150	
Myclobutanil	0.000	0.346	0.367	0.400	6.0%	< 30	86.4%	91.8%	50 - 150	
Naled	0.000	0.837	0.955	1.000	13.2%	< 30	83.7%	95.5%	50 - 150	
Oxamyl	0.000	1.884	1.920	2.000	1.9%	< 30	94.2%	96.0%	50 - 150	
Paclobutrazol	0.000	0.669	0.676	0.800	0.9%	< 30	83.7%	84.5%	50 - 150	
Parathion Methyl	0.000	0.711	0.725	0.800	2.0%	< 30	88.9%	90.7%	30 - 150	
Permethrin	0.000	0.325	0.356	0.400	9.2%	< 30	81.2%	89.0%	50 - 150	
Phosmet	0.000	0.371	0.383	0.400	3.1%	< 30	92.9%	95.8%	50 - 150	
Piperonyl butoxide	0.000	1.697	2.474	2.000	37.3%	< 30	84.9%	123.7%	50 - 150	R
Prallethrin	0.000	0.324	0.330	0.400	1.9%	< 30	81.1%	82.6%	50 - 150	
Propiconazole	0.000	0.691	0.676	0.800	2.2%	< 30	86.4%	84.5%	50 - 150	
Propoxur	0.013	0.366	0.335	0.400	9.1%	< 30	88.3%	80.6%	50 - 150	
Pyrethrins	0.000	0.382	0.398	0.413	4.2%	< 30	92.4%	96.3%	50 - 150	
Pyridaben	0.000	0.330	0.367	0.400	10.5%	< 30	82.5%	91.7%	50 - 150	
Spinosad	0.000	0.343	0.363	0.388	5.6%	< 30	88.5%	93.6%	50 - 150	
Spiromesifen	0.000	0.366	0.416	0.400	13.0%	< 30	91.4%	104.1%	50 - 150	
Spirotetramat	0.000	0.339	0.343	0.400	1.0%	< 30	84.8%	85.7%	50 - 150	
Spiroxamine	0.000	0.690	0.716	0.800	3.7%	< 30	86.3%	89.5%	50 - 150	
Tebuconazol	0.000	0.675	0.680	0.800	0.7%	< 30	84.4%	85.0%	50 - 150	
Thiacloprid	0.000	0.398	0.367	0.400	8.3%	< 30	99.6%	91.7%	50 - 150	
Thiamethoxam	0.000	0.354	0.339	0.400	4.3%	< 30	88.4%	84.7%	50 - 150	
Trifloxystrobin	0.000	0.354	0.350	0.400	1.1%	< 30	88.6%	87.6%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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:** 2107764

Method Blank				Laboratory Control Sample				
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**	**Notes**
Acephate	0.000	< 0.250		0.883	1.000	88.3	69.7 - 129	
Acequinocyl	0.000	< 1.000		2.455	4.000	***61.4***	71.1 - 132	Q6
Acetamiprid	0.000	< 0.100		0.369	0.400	92.2	70.3 - 131	
Aldicarb	0.000	< 0.200		0.722	0.800	90.2	73.5 - 136	
Abamectin	0.000	< 0.250		0.998	1.000	99.8	70.4 - 131	
Azoxystrobin	0.013	< 0.100		0.337	0.400	84.4	69.4 - 129	
Bifenazate	0.000	< 0.100		0.357	0.400	89.1	73.9 - 137	
Bifenthrin	0.000	< 0.100		0.323	0.400	80.6	69.8 - 130	
Boscalid	0.000	< 0.200		0.729	0.800	91.1	69.6 - 129	
Carbaryl	0.003	< 0.100		0.369	0.400	92.2	69.7 - 129	
Carbofuran	0.009	< 0.100		0.371	0.400	92.8	71.1 - 132	
Chlorantraniliprol	0.000	< 0.100		0.426	0.400	106.4	70.6 - 131	
Chlorfenapyr	0.000	< 0.500		1.754	2.000	87.7	70.3 - 131	
Chlorpyrifos	0.000	< 0.100		0.382	0.400	95.6	68.5 - 127	
Clofentezine	0.000	< 0.100		0.342	0.400	85.5	69.6 - 129	
Cyfluthrin	0.000	< 0.500		1.689	2.000	84.4	70.8 - 131	
Cypermethrin	0.000	< 0.500		1.828	2.000	91.4	70.4 - 131	
Daminozide	0.094	< 0.500		1.941	2.000	97.1	71.7 - 133	
Diazinon	0.000	< 0.100		0.344	0.400	85.9	69.3 - 129	
Dichlorvos	0.000	< 0.500		1.879	2.000	93.9	68.1 - 127	
Dimethoat	0.000	< 0.100		0.381	0.400	95.3	70.1 - 130	
Ethoprophos	0.000	< 0.100		0.358	0.400	89.6	69.1 - 128	
Etofenprox	0.000	< 0.200		0.630	0.800	78.8	70.2 - 130	
Etoxazol	0.000	< 0.100		0.338	0.400	84.6	69.9 - 130	
Fenoxycarb	0.000	< 0.100		0.343	0.400	85.7	69.5 - 129	
Fenpyroximat	0.000	< 0.200		0.742	0.800	92.7	69.9 - 130	
Fipronil	0.000	< 0.200		0.693	0.800	86.6	71.3 - 132	
Flonicamid	0.000	< 0.250		0.927	1.000	92.7	70.2 - 130	
Fludioxonil	0.000	< 0.200		0.687	0.800	85.9	72.1 - 134	
Hexythiazox	0.000	< 0.250		1.102	1.000	110.2	68.4 - 127	
Imazalil	0.000	< 0.100		0.363	0.400	90.7	71.9 - 133	
Imidacloprid	0.000	< 0.200		0.748	0.800	93.5	69.2 - 129	
Kresoxim-Methyl	0.000	< 0.200		0.627	0.800	78.4	69.8 - 130	
Malathion	0.000	< 0.100		0.363	0.400	90.7	69.3 - 129	
Metalaxyl	0.000	< 0.100		0.358	0.400	89.4	70.1 - 130	
Methiocarb	0.006	< 0.100		0.338	0.400	84.6	69.8 - 130	
Methomyl	0.000	< 0.200		0.728	0.800	91.0	69.6 - 129	
MGK 264	0.000	< 0.100		0.332	0.400	82.9	69.3 - 129	
Myclobutanil	0.000	< 0.100		0.341	0.400	85.3	69.6 - 129	
Naled	0.000	< 0.250		0.917	1.000	91.7	71.5 - 133	
Oxamyl	0.000	< 0.500		1.955	2.000	97.7	70.5 - 131	
Paclobutrazol	0.000	< 0.200		0.681	0.800	85.2	70.3 - 131	
Parathion Methyl	0.000	< 0.200		0.654	0.800	81.7	71.6 - 133	
Permethrin	0.000	< 0.100		0.449	0.400	112.2	69.1 - 128	
Phosmet	0.000	< 0.100		0.376	0.400	94.0	69.3 - 129	
Piperonyl butoxide	0.000	< 0.500		1.946	2.000	97.3	70.6 - 131	
Prallethrin	0.000	< 0.100		0.333	0.400	83.4	70.3 - 131	
Propiconazole	0.000	< 0.200		0.710	0.800	88.8	69.8 - 130	
Propoxur	0.019	< 0.100		0.360	0.400	90.0	69.4 - 129	
Pyrethrins	0.000	< 0.100		0.433	0.413	104.8	68.5 - 127	
Pyridaben	0.000	< 0.100		0.345	0.400	86.2	69.2 - 128	
Spinosad	0.000	< 0.100		0.351	0.388	90.5	72.3 - 134	
Spiromesifen	0.000	< 0.100		0.349	0.400	87.3	70.6 - 131	
Spirotetramat	0.000	< 0.100		0.348	0.400	86.9	70.0 - 130	
Spiroxamine	0.000	< 0.200		0.719	0.800	89.9	68.1 - 127	
Tebuconazol	0.000	< 0.200		0.720	0.800	90.0	69.7 - 129	
Thiacloprid	0.000	< 0.100		0.361	0.400	90.4	69.4 - 129	
Thiamethoxam	0.000	< 0.100		0.348	0.400	87.0	69.6 - 129	
Trifloxystrobin	0.000	< 0.100		0.377	0.400	94.2	69.9 - 130	

Columbia LABORATORIES
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503-254-1794

Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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: 2107842**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBDV	0.213	0.2	%	106	85.0 - 115	Acceptable	
CBE	0.205	0.2	%	103	85.0 - 115	Acceptable	
CBDA	0.196	0.2	%	97.8	85.0 - 115	Acceptable	
CBGA	0.198	0.2	%	99.1	85.0 - 115	Acceptable	
CBG	0.202	0.2	%	101	85.0 - 115	Acceptable	
CBD	0.202	0.2	%	101	85.0 - 115	Acceptable	
THCV	0.200	0.2	%	99.9	85.0 - 115	Acceptable	
d8THCV	0.201	0.2	%	100	85.0 - 115	Acceptable	
THCVA	0.186	0.2	%	92.9	85.0 - 115	Acceptable	
CBN	0.207	0.2	%	104	85.0 - 115	Acceptable	
exo-THC	0.185	0.2	%	92.4	85.0 - 115	Acceptable	
d9THC	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
d8THC	0.198	0.2	%	99.2	85.0 - 115	Acceptable	
CBL	0.188	0.2	%	94.0	85.0 - 115	Acceptable	
CBC	0.199	0.2	%	99.7	85.0 - 115	Acceptable	
THCA	0.190	0.2	%	94.8	85.0 - 115	Acceptable	
CBCA	0.191	0.2	%	95.4	85.0 - 115	Acceptable	
CBLA	0.194	0.2	%	97.2	85.0 - 115	Acceptable	
CBT	0.202	0.2	%	101	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D005.R000
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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: 2107842**

Sample Duplicate Sample ID: **21-009903-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.486	0.486	0.1	%	0.0476	< 20	Acceptable	
CBE	0.873	0.876	0.1	%	0.417	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	0.285	0.286	0.1	%	0.443	< 20	Acceptable	
CBD	>98.0	>98.0	0.1	%	NA	< 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	0.534	0.535	0.1	%	0.114	< 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	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.903	0.902	0.1	%	0.105	< 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	0.859	0.860	0.1	%	0.133	< 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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-009903/D004.R001
Report Date: 10/04/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/27/21 23:59

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.