Columbia LABORATORIES
A Tentamus Company

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

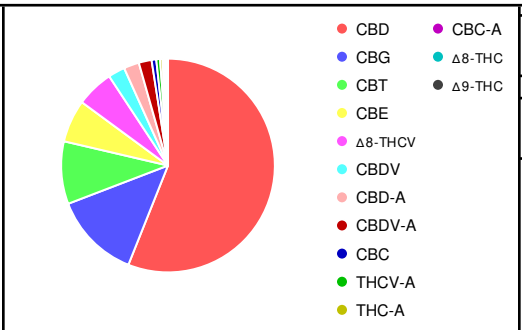
Report Number:	23-008138/D004.R000
Report Date:	07/18/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	07/11/23 14:30

Customer:	The Hemp Collect
Product identity:	Live CBD Daytrip Extract - Garlic Jam
Client/Metrc ID:	100323150334
Laboratory ID:	23-008138-0008

Summary

Potency:

Analyte	Result (%)
CBD	40.0
CBG	9.37
CBT	6.76
CBE	4.59
Δ8-THCV	4.02
CBDV	1.81
CBD-A	1.66
CBDV-A	1.39
CBC	0.502
THCV-A	0.406
THC-A	0.270
CBC-A	0.213
Δ8-THC	0.193
Δ9-THC	0.172



CBD-Total	41.5%
THC-Total	0.409%

(Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Hexane	59.2		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Customer: The Hemp Collect
825 NW 16th Ave
Portland Oregon 97209
United States of America (USA)

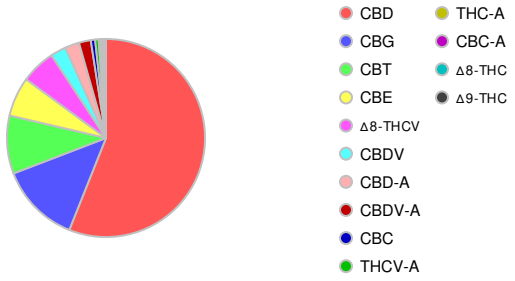
Product identity: Live CBD Daytrip Extract - Garlic Jam
Client/Metrc ID: 100323150334
Sample Date:
Laboratory ID: 23-008138-0008
Evidence of Cooling: No
Temp: 22.6 °C
Relinquished by: Hinton

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2309035 **Analyze:** 7/12/23 11:14:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.502		0.0710	
CBC-A	0.213		0.0710	
CBC-Total	0.689		0.133	
CBD	40.0		0.710	
CBD-A	1.66		0.0710	
CBD-Total	41.5		0.772	
CBDV	1.81		0.0710	
CBDV-A	1.39		0.0710	
CBDV-Total	3.01		0.132	
CBE	4.59		0.0710	
CBG	9.37		0.0710	
CBG-A	< LOQ		0.0710	
CBG-Total	9.37		0.132	
CBL	< LOQ		0.0710	
CBL-A	< LOQ		0.0710	
CBL-Total	< LOQ		0.133	
CBN	< LOQ		0.0710	
CBT	6.76		0.0710	
Δ10-THC-9R	< LOQ		0.0710	
Δ10-THC-9S	< LOQ		0.0710	
Δ10-THC-Total	< LOQ		0.142	
Δ8-THC	0.193		0.0710	
Δ8-THCV	4.02		0.0710	
Δ9-THC	0.172		0.0710	
delta-9-THCP	< LOQ		0.0710	
exo-THC	< LOQ		0.0710	
THC-A	0.270		0.0710	
THC-Total	0.409		0.133	
THCV	< LOQ		0.0710	
THCV-A	0.406		0.0710	
THCV-Total	0.356		0.132	
Total Cannabinoids	71.4			



Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2309035 **Analyze:** 7/12/23 11:14:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
Total Cannabinoids				

Solvents **Method:** Residual Solvents by GC/MS[b] **Units** µg/g **Batch** 2309154 **Analyze** 07/17/23 02:28 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	200	pass		n-Hexane	59.2		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	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2309040 **Analyze** 07/13/23 02:39 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	0.0916	2309029	07/12/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0916	2309029	07/12/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0916	2309029	07/12/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.0458	2309029	07/12/23	AOAC 2013.06 (mod.)þ	pass	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-008138/D004.R000
Report Date:	07/18/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	07/11/23 14:30

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

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2309035**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0789	0.0729	%	108	80.0 - 120	Acceptable	
CBDV	2	0.0782	0.0727	%	108	80.0 - 120	Acceptable	
CBE	2	0.0852	0.0803	%	106	80.0 - 120	Acceptable	
CBDA	1	0.0762	0.0750	%	102	90.0 - 110	Acceptable	
CBGA	1	0.0768	0.0753	%	102	80.0 - 120	Acceptable	
CBG	1	0.0780	0.0766	%	102	80.0 - 120	Acceptable	
CBD	1	0.0792	0.0779	%	102	90.0 - 110	Acceptable	
THCV	2	0.0574	0.0546	%	105	80.0 - 120	Acceptable	
d8THCV	2	0.0666	0.0644	%	103	80.0 - 120	Acceptable	
THCVA	2	0.0785	0.0711	%	110	80.0 - 120	Acceptable	
CBN	1	0.0787	0.0784	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0668	0.0653	%	102	80.0 - 120	Acceptable	
d9THC	1	0.0778	0.0759	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0727	0.0738	%	98.5	90.0 - 110	Acceptable	
9S-d10THC	1	0.0782	0.0791	%	98.9	80.0 - 120	Acceptable	
CBL	2	0.0757	0.0718	%	105	80.0 - 120	Acceptable	
9R-d10THC	1	0.0709	0.0722	%	98.2	80.0 - 120	Acceptable	
CBC	2	0.0688	0.0675	%	102	80.0 - 120	Acceptable	
THCA	1	0.0733	0.0744	%	98.6	90.0 - 110	Acceptable	
CBCA	2	0.0797	0.0737	%	108	80.0 - 120	Acceptable	
CBLA	2	0.0748	0.0698	%	107	80.0 - 120	Acceptable	
d9THCP	2	0.0746	0.0752	%	99.3	80.0 - 120	Acceptable	
CBT	2	0.0708	0.0753	%	94.1	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBDV	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBE	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBDA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBGA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBG	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBD	<LOQ	0.0735	%	< 0.0735	Acceptable	
THCV	<LOQ	0.0735	%	< 0.0735	Acceptable	
d8THCV	<LOQ	0.0735	%	< 0.0735	Acceptable	
THCVA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBN	<LOQ	0.0735	%	< 0.0735	Acceptable	
exo-THC	<LOQ	0.0735	%	< 0.0735	Acceptable	
d9THC	<LOQ	0.0735	%	< 0.0735	Acceptable	
d8THC	<LOQ	0.0735	%	< 0.0735	Acceptable	
9S-d10THC	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBL	<LOQ	0.0735	%	< 0.0735	Acceptable	
9R-d10THC	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBC	<LOQ	0.0735	%	< 0.0735	Acceptable	
THCA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBCA	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBLA	<LOQ	0.0735	%	< 0.0735	Acceptable	
d9THCP	<LOQ	0.0735	%	< 0.0735	Acceptable	
CBT	<LOQ	0.0735	%	< 0.0735	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: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2309035**

Sample Duplicate Sample ID: **23-008095-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBDA	0.138	0.131	0.0747	%	5.21	< 20	Acceptable	
CBGA	1.36	1.34	0.0747	%	1.29	< 20	Acceptable	
CBG	0.159	0.158	0.0747	%	0.891	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
THCVA	0.369	0.365	0.0747	%	0.965	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
d9THC	2.08	1.99	0.0747	%	4.11	< 20	Acceptable	
d8THC	0.562	0.553	0.0747	%	1.47	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
THCA	73.5	72.9	0.0747	%	0.815	< 20	Acceptable	
CBCA	1.14	1.07	0.0747	%	6.66	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0747	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0747	%	NA	< 20	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: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

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: 2309040	
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		0.996	1.000	99.6	50.0	150	
Acephate	0.000	< 0.200		0.671	0.800	83.8	60.0	120	
Acequinocyl	0.000	< 1.000		3.881	4.000	97.0	40.0	160	
Acetamiprid	0.000	< 0.100		0.379	0.400	94.8	60.0	120	
Aldicarb	0.000	< 0.200		0.791	0.800	98.9	60.0	120	
Azoxystrobin	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Bifenazate	0.000	< 0.100		0.377	0.400	94.2	60.0	120	
Bifenthrin	0.000	< 0.100		0.389	0.400	97.3	50.0	150	
Boscalid	0.000	< 0.200		0.718	0.800	89.8	60.0	120	
Carbaryl	0.000	< 0.100		0.382	0.400	95.4	60.0	120	
Carbofuran	0.000	< 0.100		0.379	0.400	94.9	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.619	2.000	80.9	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.347	0.400	86.7	60.0	120	
Clofentezine	0.000	< 0.100		0.395	0.400	98.7	60.0	120	
Cyfluthrin	0.000	< 0.500		2.064	2.000	103.2	50.0	150	
Cypermethrin	0.000	< 0.500		1.916	2.000	95.8	50.0	150	
Daminozide	0.383	< 0.500		2.187	2.000	109.4	60.0	120	
Diazinon	0.000	< 0.100		0.371	0.400	92.8	60.0	120	
Dichlorvos	0.000	< 0.500		1.856	2.000	92.8	60.0	120	
Dimethoate	0.000	< 0.100		0.401	0.400	100.3	60.0	120	
Ethoprophos	0.000	< 0.100		0.375	0.400	93.7	60.0	120	
Etofenprox	0.000	< 0.200		0.770	0.800	96.3	50.0	150	
Etoxazole	0.000	< 0.100		0.369	0.400	92.2	60.0	120	
Fenoxycarb	0.000	< 0.100		0.395	0.400	98.7	60.0	120	
Fenpyroximate	0.000	< 0.200		0.761	0.800	95.2	60.0	120	
Fipronil	0.000	< 0.200		0.800	0.800	100.1	60.0	120	
Flonicamid	0.000	< 0.250		1.118	1.000	111.8	60.0	120	
Fludioxonil	0.000	< 0.200		0.747	0.800	93.3	50.0	150	
Hexythiazox	0.000	< 0.250		0.983	1.000	98.3	60.0	120	
Imazalil	0.000	< 0.100		0.392	0.400	98.1	60.0	120	
Imidacloprid	0.000	< 0.200		0.776	0.800	97.0	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.800	0.800	100.0	60.0	120	
Malathion	0.000	< 0.100		0.383	0.400	95.8	60.0	120	
Metalaxyl	0.000	< 0.100		0.391	0.400	97.6	60.0	120	
Methiocarb	0.000	< 0.100		0.384	0.400	96.1	60.0	120	
Methomyl	0.000	< 0.200		0.845	0.800	105.7	60.0	120	
MGK-264	0.000	< 0.100		0.423	0.400	105.6	50.0	150	
Myclobutanil	0.000	< 0.100		0.369	0.400	92.2	60.0	120	
Naled	0.000	< 0.250		0.965	1.000	96.5	50.0	150	
Oxamyl	0.000	< 0.500		2.031	2.000	101.5	60.0	120	
Paclobutrazole	0.000	< 0.200		0.762	0.800	95.2	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.376	0.400	94.0	50.0	150	
Permethrin	0.000	< 0.100		0.371	0.400	92.9	50.0	150	
Phosmet	0.000	< 0.100		0.406	0.400	101.4	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.940	2.000	97.0	60.0	120	
Prallethrin	0.000	< 0.100		0.378	0.400	94.6	60.0	120	
Propiconazole	0.000	< 0.200		0.751	0.800	93.9	60.0	120	
Propoxur	0.000	< 0.100		0.376	0.400	94.1	60.0	120	
Pyrethrin (Summe)	0.001	< 0.100		0.493	0.488	101.0	60.0	120	
Pyridaben	0.000	< 0.100		0.389	0.400	97.2	50.0	150	
Spinosad	0.000	< 0.100		0.382	0.388	98.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Spirotetramat	0.000	< 0.100		0.395	0.400	98.7	60.0	120	
Spiroxamine	0.000	< 0.200		0.759	0.800	94.9	60.0	120	
Tebuconazole	0.000	< 0.200		0.778	0.800	97.3	60.0	120	
Thiacloprid	0.000	< 0.100		0.378	0.400	94.5	60.0	120	
Thiamethoxam	0.000	< 0.100		0.421	0.400	105.1	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.388	0.400	97.1	60.0	120	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

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:** 2309040

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 23-008095-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.794	0.906	1.000	13.3%	< 30	79.4%	90.6%	50 - 150	
Acephate	0.000	0.842	0.667	0.800	23.2%	< 30	105.3%	83.4%	50 - 150	
Acequinocyl	0.000	2.429	3.099	4.000	24.2%	< 30	60.7%	77.5%	50 - 150	
Acetamiprid	0.000	0.364	0.373	0.400	2.4%	< 30	91.0%	93.2%	50 - 150	
Aldicarb	0.000	0.760	0.756	0.800	0.5%	< 30	95.0%	94.6%	50 - 150	
Azoxystrobin	0.000	0.360	0.342	0.400	5.4%	< 30	90.1%	85.4%	50 - 150	
Bifenazate	0.000	0.361	0.384	0.400	6.2%	< 30	90.2%	95.9%	50 - 150	
Bifenthrin	0.000	0.219	0.278	0.400	23.9%	< 30	54.6%	69.4%	50 - 150	
Boscalid	0.000	0.742	0.869	0.800	15.7%	< 30	92.8%	108.6%	50 - 150	
Carbaryl	0.000	0.354	0.365	0.400	2.9%	< 30	88.5%	91.2%	50 - 150	
Carbofuran	0.000	0.363	0.375	0.400	3.3%	< 30	90.8%	93.8%	50 - 150	
Chlorantraniliprole	0.000	0.365	0.374	0.400	2.4%	< 30	91.2%	93.4%	50 - 150	
Chlorfenapyr	0.000	1.575	1.602	2.000	1.7%	< 30	78.7%	80.1%	50 - 150	
Chlorpyrifos	0.000	0.339	0.366	0.400	7.6%	< 30	84.8%	91.5%	50 - 150	
Clofentezine	0.000	0.419	0.483	0.400	14.3%	< 30	104.7%	120.8%	50 - 150	
Cyfluthrin	0.000	1.331	1.382	2.000	3.8%	< 30	66.5%	69.1%	30 - 150	
Cypermethrin	0.000	1.246	1.345	2.000	7.6%	< 30	62.3%	67.2%	50 - 150	
Daminozide	0.000	3.429	2.241	2.000	41.9%	< 30	171.5%	112.1%	30 - 150	R, Q
Diazinon	0.000	0.368	0.396	0.400	7.2%	< 30	92.1%	99.0%	50 - 150	
Dichlorvos	0.000	1.741	1.734	2.000	0.4%	< 30	87.1%	86.7%	50 - 150	
Dimethoate	0.000	0.337	0.371	0.400	9.7%	< 30	84.1%	92.8%	50 - 150	
Ethoprophos	0.000	0.346	0.361	0.400	4.3%	< 30	86.4%	90.2%	50 - 150	
Etofenprox	0.000	0.035	0.035	0.800	0.9%	< 30	4.4%	4.3%	50 - 150	Q
Etoxazole	0.000	0.295	0.315	0.400	6.4%	< 30	73.8%	78.7%	50 - 150	
Fenoxycarb	0.000	0.368	0.385	0.400	4.6%	< 30	91.9%	96.2%	50 - 150	
Fenpyroximate	0.000	0.598	0.639	0.800	6.6%	< 30	74.8%	79.9%	50 - 150	
Fipronil	0.000	0.834	0.897	0.800	7.3%	< 30	104.3%	112.2%	50 - 150	
Flonicamid	0.000	0.973	1.012	1.000	4.0%	< 30	97.3%	101.2%	50 - 150	
Fludioxonil	0.000	0.751	0.730	0.800	2.8%	< 30	93.8%	91.3%	50 - 150	
Hexythiazox	0.000	0.863	0.931	1.000	7.6%	< 30	86.3%	93.1%	50 - 150	
Imazalil	0.000	0.344	0.374	0.400	8.4%	< 30	85.9%	93.4%	50 - 150	
Imidacloprid	0.000	0.678	0.715	0.800	5.4%	< 30	84.7%	89.4%	50 - 150	
Kresoxim-methyl	0.000	0.741	0.720	0.800	2.9%	< 30	92.6%	90.0%	50 - 150	
Malathion	0.000	0.386	0.375	0.400	2.8%	< 30	96.5%	93.8%	50 - 150	
Metalaxyl	0.000	0.378	0.378	0.400	0.1%	< 30	94.5%	94.6%	50 - 150	
Methiocarb	0.000	0.378	0.384	0.400	1.4%	< 30	94.6%	95.9%	50 - 150	
Methomyl	0.000	0.648	0.799	0.800	20.8%	< 30	81.1%	99.9%	50 - 150	
MGK-264	0.000	0.388	0.414	0.400	6.6%	< 30	96.9%	103.5%	50 - 150	
Myclobutanil	0.000	0.351	0.352	0.400	0.4%	< 30	87.7%	88.1%	50 - 150	
Naled	0.000	0.902	0.908	1.000	0.7%	< 30	90.2%	90.8%	50 - 150	
Oxamyl	0.000	1.515	1.760	2.000	15.0%	< 30	75.7%	88.0%	50 - 150	
Paclobutrazole	0.000	0.718	0.738	0.800	2.8%	< 30	89.8%	92.3%	50 - 150	
Parathion-Methyl	0.067	0.386	0.401	0.400	4.5%	< 30	79.9%	83.6%	30 - 150	
Permethrin	0.000	0.237	0.259	0.400	8.8%	< 30	59.2%	64.6%	50 - 150	
Phosmet	0.000	0.375	0.376	0.400	0.1%	< 30	93.8%	93.9%	50 - 150	
Piperonyl butoxide	0.000	1.534	1.787	2.000	15.2%	< 30	76.7%	89.3%	50 - 150	
Prallethrin	0.000	0.409	0.413	0.400	0.8%	< 30	102.4%	103.2%	50 - 150	
Propiconazole	0.000	0.676	0.731	0.800	7.9%	< 30	84.5%	91.4%	50 - 150	
Propoxur	0.000	0.356	0.364	0.400	2.3%	< 30	89.0%	91.0%	50 - 150	
Pyrethrin (Summe)	0.033	0.702	0.728	0.488	3.8%	< 30	137.1%	142.4%	50 - 150	
Pyridaben	0.000	0.220	0.247	0.400	11.5%	< 30	55.1%	61.9%	50 - 150	
Spinosad	0.000	0.291	0.319	0.388	9.3%	< 30	74.9%	82.2%	50 - 150	
Spiromesifen	0.000	0.312	0.325	0.400	4.0%	< 30	78.1%	81.2%	50 - 150	
Spirotetramat	0.000	0.384	0.398	0.400	3.6%	< 30	96.0%	99.5%	50 - 150	
Spiroxamine	0.000	0.714	0.787	0.800	9.8%	< 30	89.2%	98.4%	50 - 150	
Tebuconazole	0.000	0.703	0.755	0.800	7.1%	< 30	87.8%	94.3%	50 - 150	
Thiacloprid	0.000	0.370	0.382	0.400	3.3%	< 30	92.5%	95.5%	50 - 150	
Thiamethoxam	0.000	0.349	0.383	0.400	9.3%	< 30	87.2%	95.7%	50 - 150	
Trifloxystrobin	0.000	0.309	0.341	0.400	10.0%	< 30	77.2%	85.3%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

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

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2309154

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		626	584	µg/g	107.2	60	-	120	
Isobutane	ND	<	200		837	767	µg/g	109.1	60	-	120	
Butane	ND	<	200		815	782	µg/g	104.2	60	-	120	
2,2-Dimethylpropane	ND	<	200		1030	939	µg/g	109.7	60	-	120	
Methanol	ND	<	200		1700	1640	µg/g	103.7	60	-	120	
Ethylene Oxide	ND	<	30		70.2	57.1	µg/g	122.9	60	-	120	
2-Methylbutane	ND	<	200		1540	1600	µg/g	96.3	60	-	120	
Pentane	ND	<	200		1560	1620	µg/g	96.3	60	-	120	
Ethanol	ND	<	200		1730	1610	µg/g	107.5	70	-	130	
Ethyl Ether	ND	<	200		1590	1610	µg/g	98.8	60	-	120	
2,2-Dimethylbutane	ND	<	30		167	168	µg/g	99.4	60	-	120	
Acetone	ND	<	200		1620	1620	µg/g	100.0	60	-	120	
2-Propanol	ND	<	200		1720	1600	µg/g	107.5	60	-	120	
Ethyl Formate	ND	<	500		1530	1600	µg/g	95.6	70	-	130	
Acetonitrile	ND	<	100		474	484	µg/g	97.9	60	-	120	
Methyl Acetate	ND	<	500		1630	1610	µg/g	101.2	70	-	130	
2,3-Dimethylbutane	ND	<	30		152	162	µg/g	93.8	60	-	120	
Dichloromethane	ND	<	60		474	483	µg/g	98.1	60	-	120	
2-Methylpentane	ND	<	30		176	174	µg/g	101.1	60	-	120	
MTBE	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
3-Methylpentane	ND	<	30		171	168	µg/g	101.8	60	-	120	
Hexane	ND	<	30		160	168	µg/g	95.2	60	-	120	
1-Propanol	ND	<	500		1750	1600	µg/g	109.4	70	-	130	
Methylethylketone	ND	<	500		1620	1620	µg/g	100.0	70	-	130	
Ethyl acetate	ND	<	200		1600	1600	µg/g	100.0	60	-	120	
2-Butanol	ND	<	200		1710	1600	µg/g	106.9	60	-	120	
Tetrahydrofuran	ND	<	100		496	514	µg/g	96.5	60	-	120	
Cyclohexane	ND	<	200		1550	1600	µg/g	96.9	60	-	120	
2-methyl-1-propanol	ND	<	500		1830	1610	µg/g	113.7	70	-	130	
Benzene	ND	<	1		4.07	5.12	µg/g	79.5	60	-	120	
Isopropyl Acetate	ND	<	200		1600	1620	µg/g	98.8	60	-	120	
Heptane	ND	<	200		1550	1610	µg/g	96.3	60	-	120	
1-Butanol	ND	<	500		1810	1600	µg/g	113.1	70	-	130	
Propyl Acetate	ND	<	500		1580	1600	µg/g	98.8	70	-	130	
1,4-Dioxane	ND	<	100		460	493	µg/g	93.3	60	-	120	
2-Ethoxyethanol	ND	<	30		165	163	µg/g	101.2	60	-	120	
Methylisobutylketone	ND	<	500		1600	1600	µg/g	100.0	70	-	130	
3-Methyl-1-butanol	ND	<	500		1770	1610	µg/g	109.9	70	-	130	
Ethylene Glycol	ND	<	200		271	483	µg/g	56.1	60	-	120	Q6
Toluene	ND	<	100		452	493	µg/g	91.7	60	-	120	
Isobutyl Acetate	ND	<	500		1560	1600	µg/g	97.5	70	-	130	
1-Pentanol	ND	<	500		1860	1600	µg/g	116.3	70	-	130	
Butyl Acetate	ND	<	500		1530	1600	µg/g	95.6	70	-	130	
Ethylbenzene	ND	<	200		876	969	µg/g	90.4	60	-	120	
m,p-Xylene	ND	<	200		865	968	µg/g	89.4	60	-	120	
o-Xylene	ND	<	200		872	976	µg/g	89.3	60	-	120	
Cumene	ND	<	30		141	162	µg/g	87.0	60	-	120	
Anisole	ND	<	500		1390	1610	µg/g	86.3	70	-	130	
DMSO	ND	<	500		1460	1610	µg/g	90.7	70	-	130	
1,2-dimethoxyethane	ND	<	50		158	164	µg/g	96.3	70	-	130	
Triethylamine	ND	<	500		1410	1600	µg/g	88.1	70	-	130	
N,N-dimethylformamide	ND	<	150		463	484	µg/g	95.7	70	-	130	
N,N-dimethylacetamide	ND	<	150		448	489	µg/g	91.6	70	-	130	
Pyridine	ND	<	50		121	172	µg/g	70.3	70	-	130	
Sulfolane	ND	<	50		104	163	µg/g	63.8	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		1.02	1	µg/g	102.0	70	-	130	
Chloroform	ND	<	1		1.08	1	µg/g	108.0	70	-	130	
Trichloroethylene	ND	<	1		1.09	1	µg/g	109.0	70	-	130	
1,1-Dichloroethane	ND	<	1		1.08	1	µg/g	108.0	70	-	130	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

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

QC - Sample Duplicate **Sample ID: 23-008095-0001**

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:	23-008138/D004.R000
Report Date:	07/18/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	07/11/23 14:30

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008138/D004.R000
Report Date: 07/18/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

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.