Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SG50 **BATCH #** EC04

PRODUCT NAME CBD Softgels - 50 mg **SERVING SIZE** 1 softgel (~0.4g)

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10^{-3} kg = 10^{3} mg = 10^{6} µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING		PER GRAM		Percent	
Cannabidiol (CBD)	**51.60**	**mg/serving**	129.0	mg/g	12.90	%
Total THC (d9-THC, THCA)	**0.40**	**mg/serving**	1.01	mg/g	0.101	%
Cannabigerol (CBG)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Cannabichromene (CBC)	**0.35**	**mg/serving**	0.89	mg/g	0.089	%
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	**0.40**	**mg/serving**	1.01	mg/g	0.101	%
Delta-8-THC (d8-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ	%

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL	
Arsenic	**<LOQ**	**µg/serving**	<LOQ	µg/g	10	µg/day [1]
Cadmium	**<LOQ**	**µg/serving**	<LOQ	µg/g	4.1	µg/day [1]
Lead	**<LOQ**	**µg/serving**	<LOQ	µg/g	3.5	µg/day [2]
Mercury	**<LOQ**	**µg/serving**	<LOQ	µg/g	2	µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol	<LOQ	50,000 mg/day
Heptane	<LOQ	50,000 mg/day
None of the 34 residual solvents tested found above limit of quantitation in the sample.		

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass

TERPENES	% OF SAMPLE	
Farnesene	<LOQ	%
ß-Caryophyllene	1.98	%
a-Bisabolol	0.0248	%
Guaiol	<LOQ	%
Humulene	0.164	%
Caryophyllene Oxide	0.020	%

1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.
2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-003508/D002.R000
Report Date: 04/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Customer: Etz Hayim Holdings
Product identity: FORM-SG50-EC04
Client/Metrc ID: .
Laboratory ID: 22-003508-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g†	0 885		mg/1g	
CBD per 1g	129		mg/1g	
CBDV per 1g†	0 398		mg/1g	
CBT per 1g†	1 14		mg/1g	
Δ9 THC per 1g	1 01		mg/1g	

CBD Total per 1g	129 mg/1g
THC-Total per 1g	1.01 mg/1g

(Reported in milligrams per serving)

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A Tentamus Company

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Report Number: 22-003508/D002.R000
Report Date: 04/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-SG50-EC04
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-003508-0001
Evidence of Cooling: No
Temp: 21.7 °C
Relinquished by: Client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2202732 **Analyze:** 3/30/22 10:22:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	0.885		mg/1g	0.0329	
CBC-A per 1g†	< LOQ		mg/1g	0.0329	
CBC-Total per 1g†	0.885		mg/1g	0.0618	
CBD per 1g	129		mg/1g	3.29	
CBD-A per 1g	< LOQ		mg/1g	0.0329	
CBD-Total per 1g	129		mg/1g	3.32	
CBDV per 1g†	0.398		mg/1g	0.0329	
CBDV-A per 1g†	< LOQ		mg/1g	0.0329	
CBDV-Total per 1g†	0.398		mg/1g	0.0615	
CBE per 1g†	< LOQ		mg/1g	0.0329	
CBG per 1g†	< LOQ		mg/1g	0.0329	
CBG-A per 1g†	< LOQ		mg/1g	0.0329	
CBG-Total per 1g†	< LOQ		mg/1g	0.0615	
CBL per 1g†	< LOQ		mg/1g	0.0329	
CBL-A per 1g†	< LOQ		mg/1g	0.0329	
CBL-Total per 1g†	< LOQ		mg/1g	0.0618	
CBN per 1g	< LOQ		mg/1g	0.0329	
CBT per 1g†	1.14		mg/1g	0.0329	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0329	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0329	
Δ9-THC per 1g	1.01		mg/1g	0.0329	
exo-THC per 1g†	< LOQ		mg/1g	0.0329	
THC-A per 1g	< LOQ		mg/1g	0.0329	
THC-Total per 1g	1.01		mg/1g	0.0618	
THCV per 1g†	< LOQ		mg/1g	0.0329	
THCV-A per 1g†	< LOQ		mg/1g	0.0329	
THCV-Total per 1g†	< LOQ		mg/1g	0.0618	
Total Cannabinoids per 1g	132		mg/1g		

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Received:	03/28/22 14:43

These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

g = g
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Testing in accordance with: OAR 333-007-0430

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A Tentamus Company

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

Report Number: 22-003508/D002.R000
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ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

[redacted]

Analysis Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
Form-SG5D-EC04	3/28	11:40 A			X										Liquid	TN-	mg/g	Laz. Nat Discount
Form-SG5D-EC04	3/28	11:40 A	X			X			X	X	X	X						potency 7 SI

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☒ Standard (5 day) ☐ Rush (3-4 day) (1.5x Standard) ☐ Priority Rush (2 day) (2x Standard)	[redacted]					

Lab Use Only:
Client Alias:
Order Number:
Proper Container ✓
Sample Condition ✓
Temperature: 21.7 °C
Shipped Via: Courier
Evidence of cooling: ☐ Yes ☒ No

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

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

www.pixislabs.com

Page 1 of 2

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-003508/D002.R000
Report Date: 04/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2202732**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0318	0.033	%	95.5	80.0 - 120	Acceptable	
CBDV	0.0439	0.033	%	132	80.0 - 120	Acceptable	Q6
CBE	0.0314	0.033	%	94.1	80.0 - 120	Acceptable	
CBDA	0.0345	0.033	%	104	80.0 - 120	Acceptable	
CBGA	0.0322	0.033	%	96.5	80.0 - 120	Acceptable	
CBG	0.0336	0.033	%	101	80.0 - 120	Acceptable	
CBD	0.0328	0.033	%	98.3	80.0 - 120	Acceptable	
THCV	0.0327	0.033	%	98.0	80.0 - 120	Acceptable	
d8THCV	0.0330	0.033	%	98.9	80.0 - 120	Acceptable	
THCVA	0.0310	0.033	%	92.9	80.0 - 120	Acceptable	
CBN	0.0346	0.033	%	104	80.0 - 120	Acceptable	
exo-THC	0.0308	0.033	%	92.5	80.0 - 120	Acceptable	
d9THC	0.0339	0.033	%	102	80.0 - 120	Acceptable	
d8THC	0.0339	0.033	%	102	80.0 - 120	Acceptable	
CBL	0.0319	0.033	%	95.7	80.0 - 120	Acceptable	
CBC	0.0344	0.033	%	103	80.0 - 120	Acceptable	
THCA	0.0325	0.033	%	97.6	80.0 - 120	Acceptable	
CBCA	0.0328	0.033	%	98.5	80.0 - 120	Acceptable	
CBLA	0.0308	0.033	%	92.4	80.0 - 120	Acceptable	
CBT	0.0333	0.033	%	99.9	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBDV	< LOQ	0.003	%	< 0.003	Acceptable	
CBE	< LOQ	0.003	%	< 0.003	Acceptable	
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBG	< LOQ	0.003	%	< 0.003	Acceptable	
CBD	< LOQ	0.003	%	< 0.003	Acceptable	
THCV	< LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	< LOQ	0.003	%	< 0.003	Acceptable	
THCVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBN	< LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable	
d9THC	< LOQ	0.003	%	< 0.003	Acceptable	
d8THC	< LOQ	0.003	%	< 0.003	Acceptable	
CBL	< LOQ	0.003	%	< 0.003	Acceptable	
CBC	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBLA	< LOQ	0.003	%	< 0.003	Acceptable	
CBT	< LOQ	0.003	%	< 0.003	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: 22-003508/D002.R000
Report Date: 04/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2202732**

Sample Duplicate Sample D **22-003445-0002**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.00420	0.00437	0.003	%	3.89	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	0.108	0.107	0.003	%	1.00	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0512	0.0528	0.003	%	3.03	< 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
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Report Number: 22-003508/D002.R000
Report Date: 04/01/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

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.

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-003508/D004.R000
Report Date:	04/07/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	03/28/22 14:43

Customer:	Etz Hayim Holdings
Product identity:	FORM-SG50-EC04
Client/Metrc ID:	.
Laboratory ID:	22-003508-0002

Summary

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(R)-(+)-Limonene†	10.9	60.89%	ß-Myrcene†	4.73	26.42%
ß-Caryophyllene†	1.98	11.06%	Humulene†	0.164	0.92%
d-3-Carene†	0.0345	0.19%	a-Bisabolol†	0.0248	0.14%
Geranyl acetate†	0.0225	0.13%	(-)-caryophyllene oxide†	0.0200	0.11%
Total Terpenes†	**17.9**	**100.00%**			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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503-254-1794

Report Number: 22-003508/D004.R000
Report Date: 04/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-SG50-EC04
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-003508-0002
Evidence of Cooling: No
Temp: 21.7 °C
Relinquished by: Client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2202828	04/04/22	AOAC 991.14 (Petrifilm)		X, I
Total Coliforms	< LOQ		cfu/g	10	2202828	04/04/22	AOAC 991.14 (Petrifilm)		X, I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202829	04/05/22	AOAC 2014.05 (RAPID)		X, I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202829	04/05/22	AOAC 2014.05 (RAPID)		X, I

Solvents

Method Residual Solvents by GC/MS **Units** µg/g **Batch** 2202942 **Analyze** 04/06/22 08:55 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethy butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethy butane	< 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		Ethanol†	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							

Columbia LABORATORIES
A Tentamus Company

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503-254-1794

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Report Date: 04/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2202924 **Analyze** 04/05/22 02:43 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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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 22-003508/D004.R000
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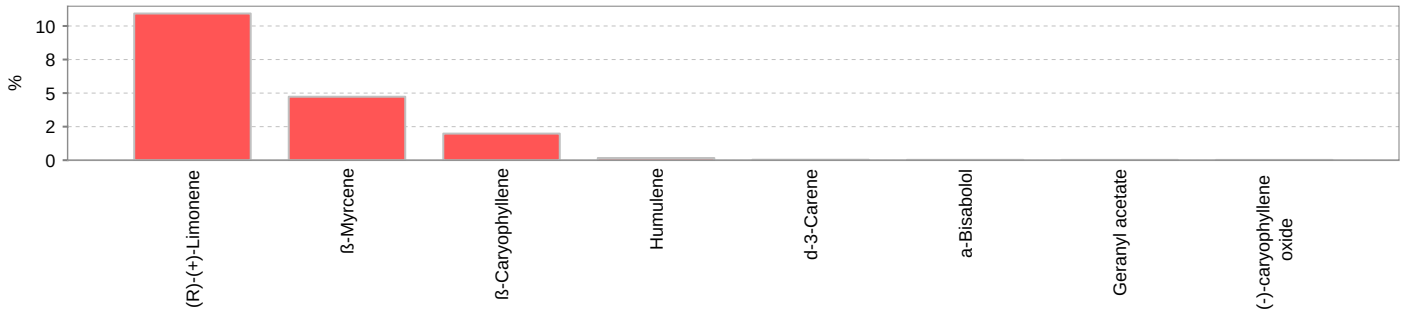
ORELAP#: OR100028
Purchase Order:
Received: 03/28/22 14:43

Terpenes

Method J AOAC 2015 V98-6 **Units** % **Batch** 2202887 **Analyze** 04/05/22 05:40 AM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene†	10.9	0.194	60.89%		ß-Myrcene†	4.73	0.019	26.42%	
ß-Caryophyllene†	1.98	0.019	11.06%		Humulene†	0.164	0.019	0.916%	
d-3-Carene†	0.0345	0.019	0.1927%		a-Bisabolol†	0.0248	0.019	0.1385%	
Geranyl acetate†	0.0225	0.019	0.1257%		(-)-caryophyllene oxide†	0.0200	0.019	0.1117%	
a-Terpinene†	< LOQ	0.019	0.00%		p-Cymene†	< LOQ	0.019	0.00%	
Geraniol†	< LOQ	0.019	0.00%		gamma-Terpinene†	< LOQ	0.019	0.00%	
nerol†	< LOQ	0.019	0.00%		Sabinene†	< LOQ	0.019	0.00%	
farnesene†	< LOQ	0.019	0.00%		(+)-Pulegone†	< LOQ	0.019	0.00%	
(-)-ß-Pinene†	< LOQ	0.019	0.00%		Menthol†	< LOQ	0.019	0.00%	
(±)-Camphor†	< LOQ	0.019	0.00%		(-)-a-Terpineol†	< LOQ	0.019	0.00%	
Sabinene hydrate†	< LOQ	0.019	0.00%		(+)-Cedrol†	< LOQ	0.019	0.00%	
(-)-Guaiol†	< LOQ	0.019	0.00%		(-)-Isopulegol†	< LOQ	0.019	0.00%	
(+)-Borneol†	< LOQ	0.019	0.00%		(+)-fenchol†	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol†	< LOQ	0.019	0.00%		(±)-fenchone†	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol†	< LOQ	0.019	0.00%		a-cedrene†	< LOQ	0.019	0.00%	
a-phellandrene†	< LOQ	0.019	0.00%		a-pinene†	< LOQ	0.019	0.00%	
Camphene†	< LOQ	0.019	0.00%		cis-ß-Ocimene†	< LOQ	0.006	0.00%	
Eucalyptol†	< LOQ	0.019	0.00%		Isoborneol†	< LOQ	0.019	0.00%	
Linalool†	< LOQ	0.019	0.00%		Terpinolene†	< LOQ	0.019	0.00%	
trans-ß-Ocimene†	< LOQ	0.012	0.00%		valencene†	< LOQ	0.019	0.00%	
Total Terpenes	**17.9**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0840	2202970	04/06/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0840	2202970	04/06/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0840	2202970	04/06/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0420	2202970	04/06/22	AOAC 2013.06 (mod.)	pass	X

Columbia LABORATORIES
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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

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.
X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

PIXIS Labs
A Tentamus Company

ORELAP ID: OR100028

[redacted]

Analysis Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
Form-SG5D-EC04	3/28	11:40 A			X										Liquid	TN-	mg/g	Laz. Nat Discount
Form-SG5D-EC04	3/28	11:40 A	X			X			X	X	X	X						potency 7 SI

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☒ Standard (5 day)	[redacted]					
☐ Rush (3-4 day) (1.5x Standard)						
☐ Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container ✓
Sample Condition ✓
Temperature: 21.7 °C
Shipped Via: Courier
Evidence of cooling: ☐ Yes ☒ No

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

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Columbia LABORATORIES
A Tentamus Company

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503-254-1794

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evision 1 Document D 7086
Legacy D CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference EPA 5035 **Batch ID** 2202887

Method Blank					Laboratory Control Sample					
Analyte	**Result**	**LOQ**		**Notes**	**Result**	**LCS**	**Units**	**LCS % Rec**	**Limits**	**Notes**
a-pinene	< OQ	<	200		497	500	µg/g	***99%***	70 - 30	
Camphene	< OQ	<	200		49	500	µg/g	***98%***	70 - 30	
Sabinene	< OQ	<	200		496	500	µg/g	***99%***	70 - 30	
b-Pinene	< OQ	<	200		482	500	µg/g	***96%***	70 - 30	
b-Myrcene	< OQ	<	200		492	500	µg/g	***98%***	70 - 30	
a-phelllandrene	< OQ	<	200		40	500	µg/g	***80%***	70 - 30	
d-3-Carene	< OQ	<	200		547	500	µg/g	***109%***	70 - 30	
a-Terpinene	< OQ	<	200		449	500	µg/g	***90%***	70 - 30	
p-Cymene	< OQ	<	200		487	500	µg/g	***97%***	70 - 30	
D- imonene	< OQ	<	200		45	500	µg/g	***90%***	70 - 30	
ucalyp ol	< OQ	<	200		466	500	µg/g	***93%***	70 - 30	
b-cis-Ocimene	< OQ	<	67		49	67	µg/g	***90%***	70 - 30	
b- rans-Ocimene	< OQ	<	33		279	333	µg/g	***84%***	70 - 30	
g-Terpinene	< OQ	<	200		4	500	µg/g	***82%***	70 - 30	
Sabinene Hydra e	< OQ	<	200		454	500	µg/g	***91%***	70 - 30	
Terpinolene	< OQ	<	200		443	500	µg/g	***89%***	70 - 30	
D- enchone	< OQ	<	200		433	500	µg/g	***87%***	70 - 30	
inalool	< OQ	<	200		446	500	µg/g	***89%***	70 - 30	
enchol	< OQ	<	200		467	500	µg/g	***93%***	70 - 30	
Camphor	< OQ	<	200		482	500	µg/g	***96%***	70 - 30	
sopulego	< OQ	<	200		485	500	µg/g	***97%***	70 - 30	
soborneol	< OQ	<	200		48	500	µg/g	***96%***	70 - 30	
Borneol	< OQ	<	200		474	500	µg/g	***95%***	70 - 30	
D -Men hol	< OQ	<	200		489	500	µg/g	***98%***	70 - 30	
Terpineol	< OQ	<	200		404	500	µg/g	***81%***	70 - 30	
Nerol	< OQ	<	200		429	500	µg/g	***86%***	70 - 30	
Pulegone	< OQ	<	200		476	500	µg/g	***95%***	70 - 30	
Gereniol	< OQ	<	200		377	500	µg/g	***75%***	70 - 30	
Geranyl Ace a e	< OQ	<	200		496	500	µg/g	***99%***	70 - 30	
a-Cedrene	< OQ	<	200		49	500	µg/g	***98%***	70 - 30	
b-Caryophyllene	< OQ	<	200		500	500	µg/g	***100%***	70 - 30	
a-Humulene	< OQ	<	200		483	500	µg/g	***97%***	70 - 30	
Valenene	< OQ	<	200		495	500	µg/g	***99%***	70 - 30	
cis-Nerolidol	< OQ	<	200		503	500	µg/g	***101%***	70 - 30	
a- arnesene	< OQ	<	200		564	500	µg/g	***113%***	70 - 30	
rans-Nerolidol	< OQ	<	200		5 5	500	µg/g	***103%***	70 - 30	
Caryophyllene Oxide	< OQ	<	200		498	500	µg/g	***100%***	70 - 30	
Guaiol	< OQ	<	200		529	500	µg/g	***106%***	70 - 30	
Cedrol	< OQ	<	200		5 3	500	µg/g	***103%***	70 - 30	
a-Bisabolol	< OQ	<	200		5 5	500	µg/g	***103%***	70 - 30	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery

Columbia LABORATORIES
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Received: 03/28/22 14:43

evision 1 Document D 7086
Legacy D CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference EPA 5035 **Batch ID** 2202887

Sample/Sample Duplicate **Sample ID 22-003397-0002**

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	< OQ	< OQ	83	µg/g	0%	< 20	
Camphene	< OQ	< OQ	83	µg/g	0%	< 20	
Sabinene	< OQ	< OQ	83	µg/g	0%	< 20	
b-Pinene	< OQ	< OQ	83	µg/g	0%	< 20	
b-Myrcene	46600	44 00	83	µg/g	6%	< 20	
a-phelllandrene	< OQ	< OQ	83	µg/g	0%	< 20	
d-3-Carene	523	524	83	µg/g	0%	< 20	
a-Terpinene	< OQ	< OQ	83	µg/g	0%	< 20	
p-Cymene	< OQ	< OQ	83	µg/g	0%	< 20	
D- imonene	0000	08000	83	µg/g	2%	< 20	
ucalyp ol	< OQ	< OQ	83	µg/g	0%	< 20	
b-cis-Ocimene	< OQ	< OQ	60.9	µg/g	0%	< 20	
b- rans-Ocimene	< OQ	< OQ	22	µg/g	0%	< 20	
g-Terpinene	< OQ	< OQ	83	µg/g	0%	< 20	
Sabinene Hydra e	< OQ	< OQ	83	µg/g	0%	< 20	
Terpinolene	< OQ	< OQ	83	µg/g	0%	< 20	
D- enchone	< OQ	< OQ	83	µg/g	0%	< 20	
inalool	< OQ	< OQ	83	µg/g	0%	< 20	
enchol	< OQ	< OQ	83	µg/g	0%	< 20	
Camphor	< OQ	< OQ	83	µg/g	0%	< 20	
sopulego	< OQ	< OQ	83	µg/g	0%	< 20	
soborneol	< OQ	< OQ	83	µg/g	0%	< 20	
Borneol	< OQ	< OQ	83	µg/g	0%	< 20	
D -Men hol	< OQ	< OQ	83	µg/g	0%	< 20	
Terpineol	< OQ	< OQ	83	µg/g	0%	< 20	
Nerol	< OQ	< OQ	83	µg/g	0%	< 20	
Pulegone	< OQ	< OQ	83	µg/g	0%	< 20	
Gereniol	< OQ	< OQ	83	µg/g	0%	< 20	
Geranyl Ace a e	< OQ	< OQ	83	µg/g	0%	< 20	
a-Cedrene	< OQ	< OQ	83	µg/g	0%	< 20	
b-Caryophyllene	9900	9900	83	µg/g	0%	< 20	
a-Humulene	420	4 0	83	µg/g	1%	< 20	
Valenene	< OQ	< OQ	83	µg/g	0%	< 20	
cis-Nerolidol	< OQ	< OQ	83	µg/g	0%	< 20	
a- arnesene	< OQ	< OQ	83	µg/g	0%	< 20	
rans-Nerolidol	< OQ	< OQ	83	µg/g	0%	< 20	
Caryophyllene Oxide	228	235	83	µg/g	3%	< 20	
Guaiol	< OQ	< OQ	83	µg/g	0%	< 20	
Cedrol	< OQ	< OQ	83	µg/g	0%	< 20	
a-Bisabolol	< OQ	< OQ	83	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg				Batch ID: 2202924		
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		1.889	1.000	***188.9***	50.0	150	Q6
Acephate	0.000	< 0.250		1.017	1.000	101.7	60.0	120	
Acequinocyl	0.000	< 1.000		4.263	4.000	106.6	40.0	160	
Acetamiprid	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Aldicarb	0.000	< 0.200		0.779	0.800	97.4	60.0	120	
Azoxystrobin	0.000	< 0.100		0.385	0.400	96.3	60.0	120	
Bifenazate	0.000	< 0.100		0.387	0.400	96.7	60.0	120	
Bifenthrin	0.000	< 0.100		0.414	0.400	103.5	50.0	150	
Boscalid	0.000	< 0.200		0.841	0.800	105.2	60.0	120	
Carbaryl	0.000	< 0.100		0.397	0.400	99.4	60.0	120	
Carbofuran	0.000	< 0.100		0.391	0.400	97.6	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.384	0.400	95.9	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.217	2.000	110.8	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.404	0.400	101.1	60.0	120	
Clofentezine	0.000	< 0.100		0.400	0.400	100.0	60.0	120	
Cyfluthrin	0.000	< 0.500		1.642	2.000	82.1	50.0	150	
Cypermethrin	0.000	< 0.500		1.997	2.000	99.8	50.0	150	
Daminozide	0.000	< 0.500		2.435	2.000	***121.8***	60.0	120	Q6
Diazinon	0.000	< 0.100		0.404	0.400	100.9	60.0	120	
Dichlorvos	0.000	< 0.500		2.057	2.000	102.8	60.0	120	
Dimethoate	0.000	< 0.100		0.404	0.400	101.0	60.0	120	
Ethoprophos	0.000	< 0.100		0.403	0.400	100.8	60.0	120	
Etofenprox	0.000	< 0.200		0.819	0.800	102.4	50.0	150	
Etoxazole	0.000	< 0.100		0.412	0.400	102.9	60.0	120	
Fenoxycarb	0.000	< 0.100		0.393	0.400	98.2	60.0	120	
Fenpyroximate	0.000	< 0.200		0.796	0.800	99.6	60.0	120	
Fipronil	0.000	< 0.200		0.787	0.800	98.4	60.0	120	
Flonicamid	0.000	< 0.250		1.065	1.000	106.5	60.0	120	
Fludioxonil	0.000	< 0.200		0.794	0.800	99.3	50.0	150	
Hexythiazox	0.000	< 0.250		1.027	1.000	102.7	60.0	120	
Imazalil	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Imidacloprid	0.000	< 0.200		0.784	0.800	98.0	60.0	120	
Kresoxim methyl	0.000	< 0.200		0.840	0.800	105.1	60.0	120	
Malathion	0.000	< 0.100		0.403	0.400	100.6	60.0	120	
Metalaxyl	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
Methiocarb	0.000	< 0.100		0.385	0.400	96.3	60.0	120	
Methomyl	0.000	< 0.200		0.728	0.800	90.9	60.0	120	
MGK 264	0.000	< 0.100		0.401	0.400	100.2	50.0	150	
Myclobutanil	0.000	< 0.100		0.394	0.400	98.4	60.0	120	
Naled	0.000	< 0.250		0.976	1.000	97.6	50.0	150	
Oxamyl	0.000	< 0.500		1.994	2.000	99.7	60.0	120	
Paclobutrazole	0.000	< 0.200		0.782	0.800	97.8	60.0	120	
Parathion Methyl	0.000	< 0.200		0.893	0.800	111.6	50.0	150	
Permethrin	0.000	< 0.100		0.401	0.400	100.2	50.0	150	
Phosmet	0.000	< 0.100		0.396	0.400	99.0	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.376	2.000	118.8	60.0	120	
Prallethrin	0.000	< 0.100		0.411	0.400	102.8	60.0	120	
Propiconazole	0.000	< 0.200		0.819	0.800	102.3	60.0	120	
Propoxur	0.000	< 0.100		0.397	0.400	99.3	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.418	0.413	101.1	60.0	120	
Pyridaben	0.000	< 0.100		0.409	0.400	102.3	50.0	150	
Spinosad	0.000	< 0.100		0.409	0.388	105.4	50.0	150	
Spiromesifen	0.000	< 0.100		0.422	0.400	105.4	60.0	120	
Spirotetramat	0.000	< 0.100		0.404	0.400	101.1	60.0	120	
Spiroxamine	0.000	< 0.200		0.806	0.800	100.8	60.0	120	
ebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120	
hiacloprid	0.000	< 0.100		0.395	0.400	98.8	60.0	120	
hiamethoxam	0.000	< 0.100		0.424	0.400	105.9	60.0	120	
rifloxystrobin	0.000	< 0.100		0.402	0.400	100.4	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2202924

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID:** 22-003658-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits		Notes
Abamectin	0.000	2.116	2.090	1.000	1.2%	< 30	211.6%	209.0%	50	150	Q
Acephate	0.000	1.001	0.986	1.000	1.5%	< 30	100.1%	98.6%	50	150	
Acequinocyl	0.000	5.131	4.659	4.000	9.6%	< 30	128.3%	116.5%	50	150	
Acetamiprid	0.000	0.388	0.391	0.400	0.7%	< 30	97.0%	97.7%	50	150	
Aldicarb	0.000	0.764	0.757	0.800	0.9%	< 30	95.5%	94.7%	50	150	
Azoxystrobin	0.000	0.388	0.401	0.400	3.5%	< 30	96.9%	100.4%	50	150	
Bifenazate	0.000	0.422	0.412	0.400	2.5%	< 30	105.6%	103.0%	50	150	
Bifenthrin	0.000	0.455	0.459	0.400	0.9%	< 30	113.8%	114.8%	50	150	
Boscalid	0.000	0.781	0.747	0.800	4.4%	< 30	97.6%	93.4%	50	150	
Carbaryl	0.000	0.389	0.389	0.400	0.0%	< 30	97.2%	97.2%	50	150	
Carbofuran	0.000	0.382	0.390	0.400	2.3%	< 30	95.4%	97.6%	50	150	
Chlorantraniliprole	0.000	0.369	0.379	0.400	2.7%	< 30	92.2%	94.7%	50	150	
Chlorfenapyr	0.000	1.985	1.761	2.000	12.0%	< 30	99.3%	88.1%	50	150	
Chlorpyrifos	0.000	0.414	0.360	0.400	13.9%	< 30	103.6%	90.1%	50	150	
Clofentezine	0.000	0.453	0.453	0.400	0.1%	< 30	113.2%	113.4%	50	150	
Cyfluthrin	0.000	2.018	1.862	2.000	8.1%	< 30	100.9%	93.1%	30	150	
Cypermethrin	0.000	2.057	1.600	2.000	25.0%	< 30	102.9%	80.0%	50	150	
Daminozide	0.173	2.300	2.274	2.000	1.2%	< 30	106.3%	105.0%	30	150	
Diazinon	0.000	0.392	0.382	0.400	2.7%	< 30	98.0%	95.4%	50	150	
Dichlorvos	0.000	1.982	1.908	2.000	3.8%	< 30	99.1%	95.4%	50	150	
Dimethoate	0.000	0.390	0.391	0.400	0.4%	< 30	97.4%	97.8%	50	150	
Ethoprophos	0.000	0.384	0.411	0.400	6.8%	< 30	95.9%	102.6%	50	150	
Etofenprox	0.000	0.962	0.921	0.800	4.3%	< 30	120.2%	115.2%	50	150	
Etoxazole	0.000	0.519	0.530	0.400	2.1%	< 30	129.7%	132.4%	50	150	
Fenoxycarb	0.000	0.388	0.384	0.400	1.0%	< 30	97.0%	96.1%	50	150	
Fenpyroximate	0.000	0.861	0.888	0.800	3.1%	< 30	107.6%	111.0%	50	150	
Fipronil	0.000	0.872	0.901	0.800	3.3%	< 30	108.9%	112.6%	50	150	
Flonicamid	0.000	1.032	1.012	1.000	2.0%	< 30	103.2%	101.2%	50	150	
Fludioxonil	0.000	0.739	0.764	0.800	3.4%	< 30	92.3%	95.6%	50	150	
Hexythiazox	0.000	1.054	1.097	1.000	4.0%	< 30	105.4%	109.7%	50	150	
Imazalil	0.000	0.314	0.310	0.400	1.3%	< 30	78.4%	77.4%	50	150	
Imidacloprid	0.000	0.770	0.765	0.800	0.7%	< 30	96.3%	95.6%	50	150	
Kresoxim methyl	0.000	0.823	0.796	0.800	3.4%	< 30	102.9%	99.5%	50	150	
Malathion	0.000	0.396	0.389	0.400	1.9%	< 30	99.0%	97.2%	50	150	
Metalaxyl	0.000	0.373	0.372	0.400	0.1%	< 30	93.2%	93.1%	50	150	
Methiocarb	0.000	0.381	0.381	0.400	0.0%	< 30	95.2%	95.3%	50	150	
Methomyl	0.000	0.650	0.753	0.800	14.7%	< 30	81.2%	94.1%	50	150	
MGK 264	0.000	0.418	0.412	0.400	1.4%	< 30	104.5%	103.1%	50	150	
Myclobutanil	0.000	0.371	0.378	0.400	1.7%	< 30	92.8%	94.5%	50	150	
Naled	0.000	0.882	0.919	1.000	4.1%	< 30	88.2%	91.9%	50	150	
Oxamyl	0.000	1.914	1.812	2.000	5.5%	< 30	95.7%	90.6%	50	150	
Paclobutrazole	0.000	0.746	0.736	0.800	1.4%	< 30	93.3%	92.0%	50	150	
Parathion Methyl	0.000	0.758	0.770	0.800	1.6%	< 30	94.7%	96.2%	30	150	
Permethrin	0.000	0.538	0.566	0.400	5.1%	< 30	134.6%	141.6%	50	150	
Phosmet	0.000	0.373	0.378	0.400	1.3%	< 30	93.2%	94.4%	50	150	
Piperonyl butoxide	0.000	2.345	2.435	2.000	3.8%	< 30	117.2%	121.7%	50	150	
Prallethrin	0.000	0.477	0.473	0.400	0.8%	< 30	119.2%	118.2%	50	150	
Propiconazole	0.000	0.797	0.791	0.800	0.6%	< 30	99.6%	98.9%	50	150	
Propoxur	0.000	0.388	0.392	0.400	1.1%	< 30	96.9%	98.0%	50	150	
Pyrethrin (Summe)	4.058	5.235	5.381	0.413	11.7%	< 30	284.9%	320.2%	50	150	Q
Pyridaben	0.000	0.544	0.509	0.400	6.7%	< 30	135.9%	127.1%	50	150	
Spinosad	0.000	0.440	0.400	0.388	9.4%	< 30	113.3%	103.1%	50	150	
Spiromesifen	0.000	0.412	0.414	0.400	0.4%	< 30	103.0%	103.5%	50	150	
Spirotetramat	0.000	0.398	0.406	0.400	2.0%	< 30	99.5%	101.5%	50	150	
Spiroxamine	0.000	0.785	0.761	0.800	3.1%	< 30	98.1%	95.1%	50	150	
ebuconazole	0.000	0.786	0.768	0.800	2.4%	< 30	98.3%	96.0%	50	150	
hiacloprid	0.000	0.377	0.385	0.400	2.1%	< 30	94.1%	96.1%	50	150	
hiamethoxam	0.000	0.397	0.419	0.400	5.3%	< 30	99.3%	104.7%	50	150	
rifloxystrobin	0.000	0.419	0.415	0.400	1.1%	< 30	104.8%	103.7%	50	150	

Columbia LABORATORIES
A Tentamus Company

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

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2202942

Method Blank					Laboratory Control Sample						
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits		Notes
Propane	ND		200		535	5 2	µg/g	93 5	60	20	
Isobutane	ND		200		9	3	µg/g	02 5	60	20	
Butane	ND		200		66	3	µg/g	0 8	60	20	
2 2 Dimethylpropane	ND		200		89	936	µg/g	95 8	60	20	
Methanol	ND		200		5 0	620	µg/g	95	60	20	
Ethy ene Oxide	ND		0		59 5	56 2	µg/g	05 9	60	20	
2 Methy butane	ND		200		590	620	µg/g	98	60	20	
Pentane	ND		200		5 0	6 0	µg/g	95	60	20	
Ethanol	ND		200		590	630	µg/g	9 5	0	30	
Ethyl Ether	ND		200		80	620	µg/g	9	60	20	
2 2 Dimethylbutane	ND		0		5		µg/g	90 2	60	20	
Acetone	ND		200		360	650	µg/g	82	60	20	
2 Propanol	ND		200		0	6 0	µg/g	88 8	60	20	
Ethyl Formate	ND		500		0	600	µg/g	88	0	30	
Aceton trile	ND		00		2	98	µg/g	9 8	60	20	
Methyl Acetate	ND		500		90	6 0	µg/g	92 5	0	30	
2 3 Dimethylbutane	ND		0		6	6	µg/g	9 5	60	20	
Dich oromethane	ND		60		86	5 0	µg/g	95 3	60	20	
2 Methy pentane	ND		0		50	6	µg/g	85 2	60	20	
M BE	ND		500		0	600	µg/g	90 0	0	30	
3 Methy pentane	ND		0		55	5	µg/g	88 6	60	20	
Hexane	ND		0		3		µg/g	9	60	20	
Propanol	ND		500		5 0	6 0	µg/g	93 8	0	30	
Methylethylketone	ND		500		5 0	600	µg/g	9	0	30	
Ethyl acetate	ND		200		500	630	µg/g	92 0	60	20	
2 Butanol	ND		200		0	620	µg/g	88 3	60	20	
etrahydrofuran	ND		00		3	500	µg/g	8	60	20	
Cyclohexane	ND		200		390	620	µg/g	85 8	60	20	
2 methyl propanol	ND		500		3 0	620	µg/g	80 9	0	30	
Benzene	ND				5	5 32	µg/g	85 3	60	20	
Isopropyl Acetate	ND		200		3 0	620	µg/g	8 6	60	20	
Heptane	ND		200		00	0	µg/g	9	60	20	
Butanol	ND		500		250	600	µg/g	8	0	30	
Propyl Acetate	ND		500		50	600	µg/g	90 6	0	30	
Dioxane	ND		00		23	50	µg/g	83 9	60	20	
2 Ethoxyethanol	ND		0		56	8	µg/g	86 2	60	20	
Methylisobutylketone	ND		500		360	6 0	µg/g	8 5	0	30	
3 Methyl butanol	ND		500		200	6 0	µg/g	5	0	30	
Ethy ene Glycol	ND		200		36	9	µg/g	3	60	20	
oluene	ND		200		0	9	µg/g	8 6	60	20	
Isobutyl Acetate	ND		500		500	600	µg/g	93 8	0	30	
Pentanol	ND		500		5 0	6 0	µg/g	95 0	0	30	
Butyl Acetate	ND		500		0	6 0	µg/g	9 3	0	30	
Ethy benzene	ND		200		86	9 3	µg/g	88 5	60	20	
m p Xylene	ND		200		85	996	µg/g	86 0	60	20	
o Xy ene	ND		200		890	9 3	µg/g	9 5	60	20	
Cumene	ND		0			0	µg/g	82 9	60	20	
Anisole	ND		500		350	6 0	µg/g	83 9	0	30	
DMSO	ND		500		560	630	µg/g	95	0	30	
2 dimethoxyethane	ND		50		8	6	µg/g	90 2	0	30	
riethylamine	ND		500		360	600	µg/g	85 0	0	30	
N N d methylformam de	ND		50		0	9	µg/g	86 5	0	30	
N N d methylacetamide	ND		50		88	98	µg/g	98 0	0	30	
Pyrid ne	ND		50		5	80	µg/g	9 2	0	30	
2 Dichloroethane	ND				0		µg/g	0 0	0	30	
Chloroform	ND				03		µg/g	03 0	0	30	
richloroethylene	ND						µg/g	0	0	30	

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QC Sample Duplicate **Sample ID: 22 003693 0004**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0 0	20	Acceptable	
Isobutane	ND	ND	200	µg/g	0 0	20	Acceptable	
Butane	ND	ND	200	µg/g	0 0	20	Acceptable	
2 2 Dimethylpropane	ND	ND	200	µg/g	0 0	20	Acceptable	
Methanol	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethy ene Oxide	ND	ND	30	µg/g	0 0	20	Acceptable	
2 Methy butane	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	
Aceton trile	ND	ND	00	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	
Dich oromethane	ND	ND	60	µg/g	0 0	20	Acceptable	
2 Methy pentane	ND	ND	30	µg/g	0 0	20	Acceptable	
M BE	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methy pentane	ND	ND	30	µg/g	0 0	20	Acceptable	
Hexane	ND	ND	30	µg/g	0 0	20	Acceptable	
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	
etrahydrofuran	ND	ND	00	µg/g	0 0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0 0	20	Acceptable	
2 methyl propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Benzene	ND	ND		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	
Butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Dioxane	ND	ND	00	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 butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy ene Glycol	ND	ND	200	µg/g	0 0	20	Acceptable	
oluene	ND	ND	200	µg/g	0 0	20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Pentanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy benzene	ND	ND	200	µg/g	0 0	20	Acceptable	
m p Xylene	ND	ND	200	µg/g	0 0	20	Acceptable	
o Xy ene	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	
2 dimethoxyethane	ND	ND	50	µg/g	0 0	20	Acceptable	
riethylamine	ND	ND	500	µg/g	0 0	20	Acceptable	
N N d methylformam de	ND	ND	50	µg/g	0 0	20	Acceptable	
N N d methylacetamide	ND	ND	50	µg/g	0 0	20	Acceptable	
Pyrid ne	ND	ND	50	µg/g	0 0	20	Acceptable	
2 Dichloroethane	ND	ND		µg/g	0 0	20	Acceptable	
Chloroform	ND	ND		µg/g	0 0	20	Acceptable	
richloroethylene	ND	ND		µg/g	0 0	20	Acceptable	

Abbreviations

ND None Detected at or above MRL
RPD Relative Percent D fference
LOQ Limit of Quantitation

Units of Measure:

µg/g M crogram per gram or ppm

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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.