Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.O.FS.SL50 **BATCH #** EC60(A)

PRODUCT NAME Strawberry Lemonade CBD Tincture **SERVING SIZE** 1 mL

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)	**52.4**	**mg/serving**	55.2	mg/g	5.52 %
Total THC (d9-THC, THCA)	**2.0**	**mg/serving**	2.15	mg/g	0.215 %
Cannabigerol (CBG)	**1.1**	**mg/serving**	1.15	mg/g	0.115 %
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabichromene (CBC)	**2.2**	**mg/serving**	2.35	mg/g	0.235 %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**2.0**	**mg/serving**	2.15	mg/g	0.215 %
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	28.31	%
ß-Caryophyllene	23.09	%
a-Bisabolol	12.87	%
Guaiol	<LOQ	%
Humulene	11.57	%
Caryophyllene Oxide	6.67	%

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: 22-004174/D002.R002
Report Date: 04/27/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

This is an amended version of report# 22-004174/D002.R001.
Reason: Report includes additional testing.

Customer: Etz Hayim Holdings
Product identity: FORM-EC60(A)-TN.O.FS.SL50
Client/Metrc ID: .
Laboratory ID: 22-004174-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g†	2.35		mg/1g	
CBD per 1g	55.2		mg/1g	
CBDV per 1g†	0.350		mg/1g	
CBG per 1g†	1.15		mg/1g	
CBT per 1g†	1.45		mg/1g	
Δ9-THC per 1g	2.15		mg/1g	

CBD-Total per 1g	55.2 mg/1g
THC-Total per 1g	2.15 mg/1g

(Reported in milligrams per serving)

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
farnesene†	0.141	28.31%	ß-Caryophyllene†	0.115	23.09%
a-Bisabolol†	0.0641	12.87%	Humulene†	0.0576	11.57%
(R)-(+)-Limonene†	0.0554	11.12%	(-)-caryophyllene oxide†	0.0332	6.67%
ß-Myrcene†	0.0321	6.45%	**Total Terpenes†**	**0.498**	**100.00%**

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-004174/D002.R002
Report Date: 04/27/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

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

Product identity: FORM-EC60(A)-TN.O.FS.SL50
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-004174-0001
Evidence of Cooling: No
Temp: 18.8 °C
Relinquished by: Client
Serving Size #1: 1 g
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2203414 **Analyze:** 4/21/22 12:44:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	2.35		mg/1g	0.0317	
CBC-A per 1g†	< LOQ		mg/1g	0.0317	
CBC-Total per 1g†	2.35		mg/1g	0.0596	
CBD per 1g	55.2		mg/1g	0.317	
CBD-A per 1g	< LOQ		mg/1g	0.0317	
CBD-Total per 1g	55.2		mg/1g	0.345	
CBDV per 1g†	0.350		mg/1g	0.0317	
CBDV-A per 1g†	< LOQ		mg/1g	0.0317	
CBDV-Total per 1g†	0.350		mg/1g	0.0593	
CBE per 1g†	< LOQ		mg/1g	0.0317	
CBG per 1g†	1.15		mg/1g	0.0317	
CBG-A per 1g†	< LOQ		mg/1g	0.0317	
CBG-Total per 1g†	1.15		mg/1g	0.0593	
CBL per 1g†	< LOQ		mg/1g	0.0317	
CBL-A per 1g†	< LOQ		mg/1g	0.0317	
CBL-Total per 1g†	< LOQ		mg/1g	0.0596	
CBN per 1g	< LOQ		mg/1g	0.0317	
CBT per 1g†	1.45		mg/1g	0.0317	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0317	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0317	
Δ9-THC per 1g	2.15		mg/1g	0.0317	
exo-THC per 1g†	< LOQ		mg/1g	0.0317	
THC-A per 1g	< LOQ		mg/1g	0.0317	
THC-Total per 1g	2.15		mg/1g	0.0596	
THCV per 1g†	< LOQ		mg/1g	0.0317	
THCV-A per 1g†	< LOQ		mg/1g	0.0317	
THCV-Total per 1g†	< LOQ		mg/1g	0.0596	
Total Cannabinoids per 1g	62.7		mg/1g		

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ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

Solvents

Method Residual Solvents by GC/MS **Units** µg/g **Batch** 2203537 **Analyze** 04/26/22 10:07 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							

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2203444	04/24/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2203444	04/24/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2203445	04/25/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2203445	04/25/22	AOAC 2014.05 (RAPID)		X

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Report Number: 22-004174/D002.R002
Report Date: 04/27/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2203495 **Analyze** 04/25/22 08:28 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		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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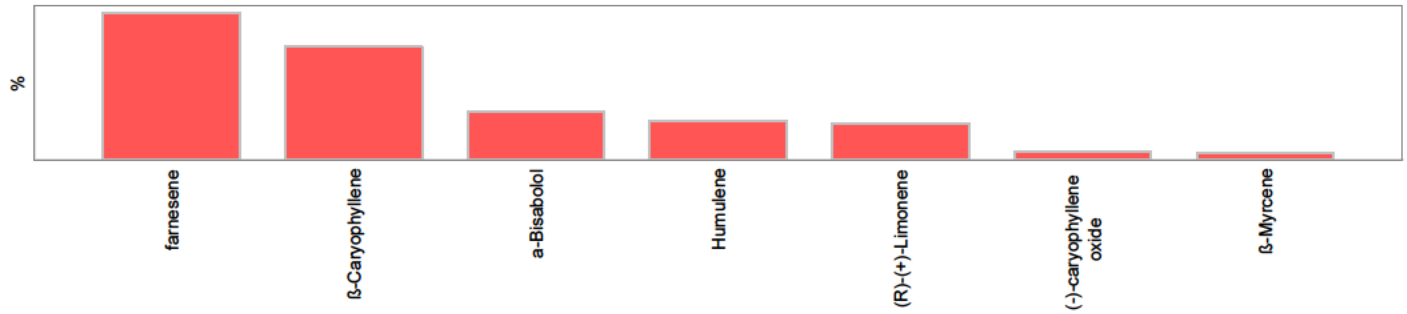
Portland, OR 97230
503-254-1794

Report Number: 22-004174/D002.R002
Report Date: 04/27/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

Terpenes

Method J AOAC 2015 V98-6 **Units** % **Batch** 2203579 **Analyze** 04/26/22 05:47 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene†	0.141	0.018	28.313%		ß-Caryophyllene†	0.115	0.018	23.092%	
a-Bisabolol†	0.0641	0.018	12.8715%		Humulene†	0.0576	0.018	11.5663%	
(R)-(+)-Limonene†	0.0554	0.018	11.1245%		(-)-caryophyllene oxide†	0.0332	0.018	6.6667%	
ß-Myrcene†	0.0321	0.018	6.4458%		Linalool†	< LOQ	0.018	0.00%	
(-)-Guaiol†	< LOQ	0.018	0.00%		Sabinene†	< LOQ	0.018	0.00%	
(-)-ß-Pinene†	< LOQ	0.018	0.00%		Geraniol†	< LOQ	0.018	0.00%	
(+)-Cedrol†	< LOQ	0.018	0.00%		Geranyl acetate†	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol†	< LOQ	0.018	0.00%		nerol†	< LOQ	0.018	0.00%	
(+)-fenchol†	< LOQ	0.018	0.00%		valencene†	< LOQ	0.018	0.00%	
(-)-a-Terpineol†	< LOQ	0.018	0.00%		Sabinene hydrate†	< LOQ	0.018	0.00%	
(+)-Pulegone†	< LOQ	0.018	0.00%		(±)-Camphor†	< LOQ	0.018	0.00%	
a-pinene†	< LOQ	0.018	0.00%		Camphene†	< LOQ	0.018	0.00%	
(+)-Borneol†	< LOQ	0.018	0.00%		Menthol†	< LOQ	0.018	0.00%	
(-)-Isopulegol†	< LOQ	0.018	0.00%		(±)-cis-Nerolidol†	< LOQ	0.018	0.00%	
(±)-fenchone†	< LOQ	0.018	0.00%		a-cedrene†	< LOQ	0.018	0.00%	
a-phellandrene†	< LOQ	0.018	0.00%		a-Terpinene†	< LOQ	0.018	0.00%	
cis-ß-Ocimene†	< LOQ	0.006	0.00%		d-3-Carene†	< LOQ	0.018	0.00%	
Eucalyptol†	< LOQ	0.018	0.00%		gamma-Terpinene†	< LOQ	0.018	0.00%	
Isoborneol†	< LOQ	0.018	0.00%		p-Cymene†	< LOQ	0.018	0.00%	
Terpinolene†	< LOQ	0.018	0.00%		trans-ß-Ocimene†	< LOQ	0.012	0.00%	
Total Terpenes	**0.498**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0817	2203481	04/22/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0817	2203481	04/22/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0817	2203481	04/22/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0409	2203481	04/22/22	AOAC 2013.06 (mod.)	pass	X

Columbia LABORATORIES
A Tentamus Company

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

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ORELAP#:	OR100028
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Received:	04/13/22 14:03

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
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-004174/D002.R002
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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-EC60(A)-TN.0.FS.SL50				X										Liquid	mg/g		Laz. Nat. Discount
FORM-EC60(A)-TN.0.FS.SL50	4/12 5pm	X			X			X	X	X	X						Potency 1st

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: 18.8°C
Shipped Via: Client
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

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A Tentamus Company

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Portland, OR 97230
503-254-1794

Report Number: 22-004174/D002.R002
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ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2203324**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0326	0.033	%	97.8	80.0 - 120	Acceptable	
CBDV	0.0358	0.033	%	107	80.0 - 120	Acceptable	
CBE	0.0325	0.033	%	97.5	80.0 - 120	Acceptable	
CBDA	0.0326	0.033	%	97.8	90.0 - 110	Acceptable	
CBGA	0.0313	0.033	%	93.9	80.0 - 120	Acceptable	
CBG	0.0312	0.033	%	93.6	80.0 - 120	Acceptable	
CBD	0.0327	0.033	%	98.1	90.0 - 110	Acceptable	
THCV	0.0331	0.033	%	99.3	80.0 - 120	Acceptable	
d8THCV	0.0328	0.033	%	98.3	80.0 - 120	Acceptable	
THCVA	0.0313	0.033	%	93.9	80.0 - 120	Acceptable	
CBN	0.0333	0.033	%	100	90.0 - 110	Acceptable	
exo-THC	0.0315	0.033	%	94.5	80.0 - 120	Acceptable	
d9THC	0.0341	0.033	%	102	90.0 - 110	Acceptable	
d8THC	0.0320	0.033	%	96.0	90.0 - 110	Acceptable	
CBL	0.0311	0.033	%	93.4	80.0 - 120	Acceptable	
CBC	0.0345	0.033	%	103	80.0 - 120	Acceptable	
THCA	0.0314	0.033	%	94.2	90.0 - 110	Acceptable	
CBCA	0.0331	0.033	%	99.2	80.0 - 120	Acceptable	
CBLA	0.0322	0.033	%	96.6	80.0 - 120	Acceptable	
CBT	0.0314	0.033	%	94.2	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: 22-004174/D002.R002
Report Date: 04/27/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:03

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

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2203324			
Sample Duplicate					Sample D 22-003733-0001-01			
Analyte	**Result**	**Org. Result**	**LOQ**	**Units**	**RPD**	**Limits**	**Evaluation**	**Notes**
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0142	0.0139	0.003	%	2.59	< 20	Acceptable	
CBE	0.0230	0.0224	0.003	%	2.58	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0370	0.0356	0.003	%	3.62	< 20	Acceptable	
CBD	2.43	2.35	0.003	%	3.45	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 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	0.0785	0.0760	0.003	%	3.19	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0659	0.0640	0.003	%	2.97	< 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	0.0696	0.0677	0.003	%	2.69	< 20	Acceptable	

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2203414**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0322	0.033	%	96.6	80.0 - 120	Acceptable	
CBDV	0.0357	0.033	%	107	80.0 - 120	Acceptable	
CBE	0.0311	0.033	%	93.4	80.0 - 120	Acceptable	
CBDA	0.0323	0.033	%	96.9	90.0 - 110	Acceptable	
CBGA	0.0311	0.033	%	93.4	80.0 - 120	Acceptable	
CBG	0.0316	0.033	%	94.9	80.0 - 120	Acceptable	
CBD	0.0328	0.033	%	98.5	90.0 - 110	Acceptable	
THCV	0.0331	0.033	%	99.4	80.0 - 120	Acceptable	
d8THCV	0.0331	0.033	%	99.4	80.0 - 120	Acceptable	
THCVA	0.0311	0.033	%	93.3	80.0 - 120	Acceptable	
CBN	0.0340	0.033	%	102	90.0 - 110	Acceptable	
exo-THC	0.0320	0.033	%	95.9	80.0 - 120	Acceptable	
d9THC	0.0347	0.033	%	104	90.0 - 110	Acceptable	
d8THC	0.0312	0.033	%	93.5	90.0 - 110	Acceptable	
CBL	0.0324	0.033	%	97.3	80.0 - 120	Acceptable	
CBC	0.0326	0.033	%	97.7	80.0 - 120	Acceptable	
THCA	0.0328	0.033	%	98.5	90.0 - 110	Acceptable	
CBCA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBLA	0.0326	0.033	%	97.9	80.0 - 120	Acceptable	
CBT	0.0326	0.033	%	97.8	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

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Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2203414			
Sample Duplicate					Sample D 21-012857-0007			
Analyte	**Result**	**Org. Result**	**LOQ**	**Units**	**RPD**	**Limits**	**Evaluation**	**Notes**
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0316	0.0319	0.003	%	0.939	< 20	Acceptable	
CBE	0.139	0.140	0.003	%	0.664	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.170	0.171	0.003	%	1.04	< 20	Acceptable	
CBD	5.64	5.64	0.003	%	0.00505	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0303	0.0305	0.003	%	0.543	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.142	0.142	0.003	%	0.539	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.236	0.237	0.003	%	0.446	< 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	0.103	0.100	0.003	%	2.55	< 20	Acceptable	

Abbreviations

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Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg				Batch ID 2203495			
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS % Re	Limits		Notes
Abamectin	0.000	< 0.250		0.987	1.000	98.7	50.0	150	
Acephate	0.000	< 0.250		1.004	1.000	100.4	60.0	120	
Acequinocyl	0.000	< 1.000		4.536	4.000	113.4	40.0	160	
Acetamiprid	0.000	< 0.100		0.389	0.400	97.3	60.0	120	
Aldicarb	0.000	< 0.200		0.779	0.800	97.4	60.0	120	
Azoxystrobin	0.006	< 0.100		0.398	0.400	99.4	60.0	120	
Bifenazate	0.000	< 0.100		0.472	0.400	117.9	60.0	120	
Bifenthrin	0.000	< 0.100		0.382	0.400	95.6	50.0	150	
Boscalid	0.000	< 0.200		0.861	0.800	107.6	60.0	120	
Carbaryl	0.000	< 0.100		0.387	0.400	96.8	60.0	120	
Carbofuran	0.000	< 0.100		0.387	0.400	96.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.384	0.400	95.9	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.688	2.000	84.4	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.374	0.400	93.4	60.0	120	
Clofentezine	0.000	< 0.100		0.406	0.400	101.6	60.0	120	
Cyfluthrin	0.000	< 0.500		1.893	2.000	94.7	50.0	150	
Cypermethrin	0.000	< 0.500		1.955	2.000	97.7	50.0	150	
Daminozide	0.000	< 0.500		2.911	2.000	145.6	60.0	120	Q1
Diazinon	0.000	< 0.100		0.429	0.400	107.2	60.0	120	
Dichlorvos	0.000	< 0.500		1.940	2.000	97.0	60.0	120	
Dimethoate	0.000	< 0.100		0.387	0.400	96.8	60.0	120	
Ethoprophos	0.000	< 0.100		0.417	0.400	104.3	60.0	120	
Etofenprox	0.000	< 0.200		0.788	0.800	98.5	50.0	150	
Etoxazole	0.000	< 0.100		0.409	0.400	102.4	60.0	120	
Fenoxycarb	0.000	< 0.100		0.410	0.400	102.4	60.0	120	
Fenpyroximate	0.000	< 0.200		0.753	0.800	94.1	60.0	120	
Fipronil	0.000	< 0.200		0.762	0.800	95.2	60.0	120	
Flonicamid	0.000	< 0.250		0.927	1.000	92.7	60.0	120	
Fludioxonil	0.000	< 0.200		0.751	0.800	93.9	50.0	150	
Hexythiazox	0.000	< 0.250		0.973	1.000	97.3	60.0	120	
Imazalil	0.000	< 0.100		0.415	0.400	103.8	60.0	120	
Imidacloprid	0.000	< 0.200		0.776	0.800	97.0	60.0	120	
Kresoxim methyl	0.000	< 0.200		0.817	0.800	102.1	60.0	120	
Malathion	0.000	< 0.100		0.410	0.400	102.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.406	0.400	101.5	60.0	120	
Methiocarb	0.000	< 0.100		0.392	0.400	97.9	60.0	120	
Methomyl	0.000	< 0.200		0.682	0.800	85.2	60.0	120	
MGK 264	0.000	< 0.100		0.378	0.400	94.5	50.0	150	
Myclobutanil	0.000	< 0.100		0.426	0.400	106.4	60.0	120	
Naled	0.000	< 0.250		0.956	1.000	95.6	50.0	150	
Oxamyl	0.000	< 0.500		2.005	2.000	100.3	60.0	120	
Paclobutrazole	0.000	< 0.200		0.800	0.800	100.1	60.0	120	
Parathion Methyl	0.000	< 0.200		0.794	0.800	99.2	50.0	150	
Permethrin	0.000	< 0.100		0.379	0.400	94.7	50.0	150	
Phosmet	0.000	< 0.100		0.404	0.400	101.0	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.976	2.000	98.8	60.0	120	
Prallethrin	0.000	< 0.100		0.392	0.400	98.1	60.0	120	
Propiconazole	0.000	< 0.200		0.804	0.800	100.5	60.0	120	
Propoxur	0.000	< 0.100		0.384	0.400	95.9	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.417	0.413	100.9	60.0	120	
Pyridaben	0.000	< 0.100		0.403	0.400	100.8	50.0	150	
Spinosad	0.000	< 0.100		0.375	0.388	96.6	50.0	150	
Spiromesifen	0.000	< 0.100		0.409	0.400	102.3	60.0	120	
Spirotetramat	0.000	< 0.100		0.410	0.400	102.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.810	0.800	101.2	60.0	120	
ebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120	
hiacloprid	0.000	< 0.100		0.385	0.400	96.2	60.0	120	
hiamethoxam	0.000	< 0.100		0.406	0.400	101.5	60.0	120	
rifloxystrobin	0.000	< 0.100		0.384	0.400	96.1	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2203495

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 22-0042330002

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Re	MSD % Re	Limits		Notes
Abamectin	0.000	1.191	1.072	1.000	10.6%	< 30	119.1%	107.2%	50	150	
Acephate	0.000	0.952	0.857	1.000	10.5%	< 30	95.2%	85.7%	50	150	
Acequinocyl	0.000	2.145	2.304	4.000	7.2%	< 30	53.6%	57.6%	50	150	
Acetamiprid	0.000	0.330	0.322	0.400	2.4%	< 30	82.5%	80.6%	50	150	
Aldicarb	0.000	0.743	0.712	0.800	4.3%	< 30	92.9%	89.0%	50	150	
Azoxystrobin	0.000	0.274	0.261	0.400	4.6%	< 30	68.4%	65.3%	50	150	
Bifenazate	0.000	0.508	0.496	0.400	2.5%	< 30	127.1%	124.0%	50	150	
Bifenthrin	0.000	0.150	0.155	0.400	3.1%	< 30	37.4%	38.6%	50	150	Q
Boscalid	0.000	0.656	0.576	0.800	13.0%	< 30	82.0%	72.0%	50	150	
Carbaryl	0.000	0.264	0.263	0.400	0.2%	< 30	66.0%	65.9%	50	150	
Carbofuran	0.000	0.299	0.279	0.400	6.9%	< 30	74.8%	69.8%	50	150	
Chlorantraniliprole	0.000	0.418	0.407	0.400	2.7%	< 30	104.5%	101.8%	50	150	
Chlorfenapyr	0.000	0.452	0.317	2.000	35.3%	< 30	22.6%	15.8%	50	150	R Q
Chlorpyrifos	0.000	0.525	0.536	0.400	2.1%	< 30	131.1%	133.9%	50	150	
Clofentezine	0.000	0.365	0.291	0.400	22.7%	< 30	91.3%	72.7%	50	150	
Cyfluthrin	0.001	0.945	0.961	2.000	1.6%	< 30	47.2%	48.0%	30	150	
Cypermethrin	0.000	0.804	0.791	2.000	1.6%	< 30	40.2%	39.5%	50	150	Q
Daminozide	0.000	2.916	2.798	2.000	4.1%	< 30	145.8%	139.9%	30	150	
Diazinon	0.000	0.397	0.393	0.400	1.0%	< 30	99.2%	98.2%	50	150	
Dichlorvos	0.000	1.537	1.454	2.000	5.5%	< 30	76.9%	72.7%	50	150	
Dimethoate	0.000	0.371	0.376	0.400	1.3%	< 30	92.8%	94.0%	50	150	
Ethoprophos	0.000	0.322	0.339	0.400	4.9%	< 30	80.6%	84.6%	50	150	
Etofenprox	0.000	0.369	0.351	0.800	5.0%	< 30	46.1%	43.9%	50	150	Q
Etoxazole	0.000	0.277	0.283	0.400	2.3%	< 30	69.2%	70.8%	50	150	
Fenoxycarb	0.000	0.400	0.377	0.400	5.9%	< 30	100.0%	94.3%	50	150	
Fenpyroximate	0.000	0.287	0.286	0.800	0.3%	< 30	35.9%	35.8%	50	150	Q
Fipronil	0.000	0.435	0.411	0.800	5.6%	< 30	54.4%	51.4%	50	150	
Flonicamid	0.000	0.865	0.815	1.000	5.9%	< 30	86.5%	81.5%	50	150	
Fludioxonil	0.000	1.117	1.095	0.800	2.0%	< 30	139.6%	136.9%	50	150	
Hexythiazox	0.000	0.546	0.514	1.000	6.1%	< 30	54.6%	51.4%	50	150	
Imazalil	0.000	0.384	0.360	0.400	6.6%	< 30	96.1%	90.0%	50	150	
Imidacloprid	0.000	0.756	0.721	0.800	4.8%	< 30	94.5%	90.1%	50	150	
Kresoxim methyl	0.000	0.678	0.632	0.800	7.0%	< 30	84.7%	79.0%	50	150	
Malathion	0.000	0.289	0.266	0.400	8.0%	< 30	72.1%	66.5%	50	150	
Metalaxyl	0.000	0.385	0.370	0.400	4.1%	< 30	96.4%	92.5%	50	150	
Methiocarb	0.000	0.360	0.351	0.400	2.5%	< 30	89.9%	87.7%	50	150	
Methomyl	0.000	0.690	0.598	0.800	14.3%	< 30	86.3%	74.8%	50	150	
MGK 264	0.000	0.168	0.181	0.400	7.8%	< 30	41.9%	45.3%	50	150	Q
Myclobutanil	0.001	0.378	0.313	0.400	18.8%	< 30	94.4%	78.2%	50	150	
Naled	0.000	0.645	0.619	1.000	4.2%	< 30	64.5%	61.9%	50	150	
Oxamyl	0.000	1.923	1.741	2.000	9.9%	< 30	96.1%	87.0%	50	150	
Paclobutrazole	0.000	0.601	0.546	0.800	9.6%	< 30	75.2%	68.3%	50	150	
Parathion Methyl	0.000	0.488	0.452	0.800	7.9%	< 30	61.0%	56.4%	30	150	
Permethrin	0.000	0.158	0.160	0.400	1.1%	< 30	39.6%	40.0%	50	150	Q
Phosmet	0.000	0.328	0.314	0.400	4.2%	< 30	81.9%	78.5%	50	150	
Piperonyl butoxide	0.003	1.027	1.024	2.000	0.3%	< 30	51.2%	51.1%	50	150	
Prallethrin	0.001	0.638	0.740	0.400	14.8%	< 30	159.2%	184.7%	50	150	Q
Propiconazole	0.000	0.805	0.836	0.800	3.8%	< 30	100.6%	104.5%	50	150	
Propoxur	0.000	0.301	0.299	0.400	0.6%	< 30	75.3%	74.8%	50	150	
Pyrethrin (Summe)	0.006	2.834	2.711	0.413	4.4%	< 30	684.6%	654.8%	50	150	Q
Pyridaben	0.000	0.329	0.304	0.400	7.9%	< 30	82.2%	75.9%	50	150	
Spinosad	0.000	0.312	0.305	0.388	2.3%	< 30	80.4%	78.6%	50	150	
Spiromesifen	0.000	0.211	0.182	0.400	14.9%	< 30	52.7%	45.4%	50	150	Q
Spirotetramat	0.000	0.438	0.389	0.400	11.8%	< 30	109.6%	97.3%	50	150	
Spiroxamine	0.000	0.853	0.810	0.800	5.2%	< 30	106.6%	101.2%	50	150	
tebuconazole	0.000	0.659	0.640	0.800	3.0%	< 30	82.4%	80.0%	50	150	
thiacloprid	0.000	0.365	0.350	0.400	4.2%	< 30	91.1%	87.4%	50	150	
thiamethoxam	0.000	0.407	0.351	0.400	14.8%	< 30	101.7%	87.7%	50	150	
trifloxystrobin	0.000	0.275	0.262	0.400	4.8%	< 30	68.7%	65.5%	50	150	

Columbia LABORATORIES
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Laboratory Quality Control Results

Residual Solvents							Batch D: 2203537					
Method Blank					**Laboratory Control Sample**							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec		Limits		Notes
Propane	ND	<	200		451	572	µg/g	78.8	60	120		
Isobutane	ND	<	200		665	731	µg/g	91.0	60	120		
Butane	ND	<	200		682	731	µg/g	93.3	60	120		
2,2 Dimethylpropane	ND	<	200		804	936	µg/g	85.9	60	120		
Methanol	ND	<	200		1560	1620	µg/g	96.3	60	120		
Ethylene Oxide	ND	<	30		54.2	56.2	µg/g	96.4	60	120		
2 Methylbutane	ND	<	200		1570	1620	µg/g	96.9	60	120		
Pentane	ND	<	200		1550	1610	µg/g	96.3	60	120		
Ethanol	ND	<	200		1560	1630	µg/g	95.7	70	130		
Ethyl Ether	ND	<	200		1510	1620	µg/g	93.2	60	120		
2,2 Dimethylbutane	ND	<	30		161	174	µg/g	92.5	60	120		
Acetone	ND	<	200		1600	1650	µg/g	97.0	60	120		
2 Propanol	ND	<	200		1510	1610	µg/g	93.8	60	120		
Ethyl Formate	ND	<	500		1370	1600	µg/g	85.6	70	130		
Acetonitrile	ND	<	100		474	498	µg/g	95.2	60	120		
Methyl Acetate	ND	<	500		1510	1610	µg/g	93.8	70	130		
2,3 Dimethylbutane	ND	<	30		172	176	µg/g	97.7	60	120		
Dichloromethane	ND	<	60		473	510	µg/g	92.7	60	120		
2 Methylpentane	ND	<	30		157	176	µg/g	89.2	60	120		
M BE	ND	<	500		1470	1600	µg/g	91.9	70	130		
3 Methylpentane	ND	<	30		160	175	µg/g	91.4	60	120		
Hexane	ND	<	30		161	177	µg/g	91.0	60	120		
1 Propanol	ND	<	500		1580	1610	µg/g	98.1	70	130		
Methylethylketone	ND	<	500		1530	1600	µg/g	95.6	70	130		
Ethyl acetate	ND	<	200		1550	1630	µg/g	95.1	60	120		
2 Butanol	ND	<	200		1490	1620	µg/g	92.0	60	120		
etrahydrofuran	ND	<	100		460	500	µg/g	92.0	60	120		
Cyclohexane	ND	<	200		1460	1620	µg/g	90.1	60	120		
2 methyl 1 propanol	ND	<	500		1300	1620	µg/g	80.2	70	130		
Benzene	ND	<	1		4.6	5.32	µg/g	86.5	60	120		
Isopropyl Acetate	ND	<	200		1570	1620	µg/g	96.9	60	120		
Heptane	ND	<	200		1590	1770	µg/g	89.8	60	120		
1 Butanol	ND	<	500		1250	1600	µg/g	78.1	70	130		
Propyl Acetate	ND	<	500		1610	1600	µg/g	100.6	70	130		
1,4 Dioxane	ND	<	100		450	504	µg/g	89.3	60	120		
2 Ethoxyethanol	ND	<	30		187	181	µg/g	103.3	60	120		
Methylisobutylketone	ND	<	500		1470	1610	µg/g	91.3	70	130		
3 Methyl 1 butanol	ND	<	500		1350	1610	µg/g	83.9	70	130		
Ethylene Glycol	ND	<	200		424	494	µg/g	85.8	60	120		
oluene	ND	<	200		436	491	µg/g	88.8	60	120		
Isobutyl Acetate	ND	<	500		1610	1600	µg/g	100.6	70	130		
1 Pentanol	ND	<	500		1490	1610	µg/g	92.5	70	130		
Butyl Acetate	ND	<	500		1390	1610	µg/g	86.3	70	130		
Ethylbenzene	ND	<	200		874	973	µg/g	89.8	60	120		
m,p Xylene	ND	<	200		884	996	µg/g	88.8	60	120		
o Xylene	ND	<	200		884	973	µg/g	90.9	60	120		
Cumene	ND	<	30		148	170	µg/g	87.1	60	120		
Anisole	ND	<	500		1200	1610	µg/g	74.5	70	130		
DMSO	ND	<	500		1570	1630	µg/g	96.3	70	130		
1,2 dimethoxyethane	ND	<	50		155	164	µg/g	94.5	70	130		
riethylamine	ND	<	500		1340	1600	µg/g	83.8	70	130		
N,N dimethylformamide	ND	<	150		432	497	µg/g	86.9	70	130		
N,N dimethylacetamide	ND	<	150		467	498	µg/g	93.8	70	130		
Pyridine	ND	<	50		166	180	µg/g	92.2	70	130		
1,2 Dichloroethane	ND	<	1		1.07	1	µg/g	107.0	70	130		
Chloroform	ND	<	1		1.04	1	µg/g	104.0	70	130		
richloroethylene	ND	<	1		1.03	1	µg/g	103.0	70	130		

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QC- Sample Duplicate — Sample ID: 22-004352-0001

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	
M BE	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	
etrahydrofuran	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	
oluene	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	
riethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2 Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
richloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND None Detected at or above MRL
RPD Relative Percent Difference

Units of Measure:

µg/g Microgram per gram or ppm

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LOQ Limit of Quantitation

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TerpenesQuaity Control Results

Method Reference: EPA 5035 — Batch ID: 2203579

Method Blank					Laboratory Control Sample					
Analyte	Result	LOQ		Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	<	200		427	500	µg/g	85%	70 - 130	
Camphene	<LOQ	<	200		400	500	µg/g	80%	70 - 130	
Sabinene	<LOQ	<	200		435	500	µg/g	87%	70 - 130	
b-Pinene	<LOQ	<	200		431	500	µg/g	86%	70 - 130	
b-Myrcene	<LOQ	<	200		364	500	µg/g	73%	70 - 130	
a-phellandrene	<LOQ	<	200		353	500	µg/g	71%	70 - 130	
d-3-Carene	<LOQ	<	200		374	500	µg/g	75%	70 - 130	
a-Terpinene	<LOQ	<	200		414	500	µg/g	83%	70 - 130	
p-Cymene	<LOQ	<	200		360	500	µg/g	72%	70 - 130	
D-Limonene	<LOQ	<	200		423	500	µg/g	85%	70 - 130	
Eucalyptol	<LOQ	<	200		350	500	µg/g	70%	70 - 130	
b-cis-Ocimene	<LOQ	<	67		117	167	µg/g	70%	70 - 130	
b-trans-Ocimene	<LOQ	<	133		242	333	µg/g	73%	70 - 130	
g-Terpinene	<LOQ	<	200		403	500	µg/g	81%	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		414	500	µg/g	83%	70 - 130	
Terpinolene	<LOQ	<	200		401	500	µg/g	80%	70 - 130	
D-Fenchone	<LOQ	<	200		402	500	µg/g	80%	70 - 130	
Linalool	<LOQ	<	200		366	500	µg/g	73%	70 - 130	
Fenchol	<LOQ	<	200		443	500	µg/g	89%	70 - 130	
Camphor	<LOQ	<	200		388	500	µg/g	78%	70 - 130	
Isopulego	<LOQ	<	200		379	500	µg/g	76%	70 - 130	
Isoborneol	<LOQ	<	200		371	500	µg/g	74%	70 - 130	
Borneol	<LOQ	<	200		427	500	µg/g	85%	70 - 130	
DL-Menthol	<LOQ	<	200		376	500	µg/g	75%	70 - 130	
Terpineol	<LOQ	<	200		407	500	µg/g	81%	70 - 130	
Nerol	<LOQ	<	200		364	500	µg/g	73%	70 - 130	
Pulegone	<LOQ	<	200		399	500	µg/g	80%	70 - 130	
Geraniol	<LOQ	<	200		358	500	µg/g	72%	70 - 130	
Geranyl_Acetate	<LOQ	<	200		390	500	µg/g	78%	70 - 130	
a-Cedrene	<LOQ	<	200		415	500	µg/g	83%	70 - 130	
b-Caryophyllene	<LOQ	<	200		382	500	µg/g	76%	70 - 130	
a-Humulene	<LOQ	<	200		410	500	µg/g	82%	70 - 130	
Valencene	<LOQ	<	200		367	500	µg/g	73%	70 - 130	
cis-Nerolidol	<LOQ	<	200		401	500	µg/g	80%	70 - 130	
a-Farnesene	<LOQ	<	200		403	500	µg/g	81%	70 - 130	
trans-Nerolidol	<LOQ	<	200		407	500	µg/g	81%	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		377	500	µg/g	75%	70 - 130	
Guaiol	<LOQ	<	200		413	500	µg/g	83%	70 - 130	
Cedrol	<LOQ	<	200		381	500	µg/g	76%	70 - 130	
a-Bisabolol	<LOQ	<	200		392	500	µg/g	78%	70 - 130	

Definitions

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

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TerpenesQuaity Control Results

Method Reference: EPA 5035 — Batch ID: 2203579

Sample/ Sample Duplicate — Sample ID: 22-004174-0001

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Myrcene	317	321	186	µg/g	1%	< 20	
a-phelllandrene	<LOQ	<LOQ	186	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	186	µg/g	0%	< 20	
D-Limonene	550	554	186	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	618	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	124	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	186	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	186	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	186	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	186	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	186	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	186	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	186	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	186	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Caryophyllene	1170	1150	186	µg/g	2%	< 20	
a-Humulene	578	576	186	µg/g	0%	< 20	
Valencne	<LOQ	<LOQ	186	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Farnesene	1400	1410	186	µg/g	1%	< 20	
trans-Nerolidol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Caryophyllene_Oxide	334	332	186	µg/g	1%	< 20	
Guaiol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Bisabolol	674	641	186	µg/g	5%	< 20	

Definitions

RPD — Relative Percent Difference

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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.