Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.FS.SAL20 **BATCH #** FL62

PRODUCT NAME Salmon Full Spectrum CBD Pet Tincture **SERVING SIZE** 1mL (0.91g)

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)	**20.93**	**mg/serving**	23.00	mg/g	2.30 %
Total THC (d9-THC, THCA)	**0.54**	**mg/serving**	0.60	mg/g	0.06 %
Cannabigerol (CBG)	**0.36**	**mg/serving**	0.40	mg/g	0.04 %
Cannabinol (CBN)	**0.07**	**mg/serving**	0.08	mg/g	0.01 %
Cannabichromene (CBC)	**0.77**	**mg/serving**	0.85	mg/g	0.09 %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**0.54**	**mg/serving**	0.60	mg/g	0.06 %
Delta-8-THC (d8-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %

HEAVY METALS	PER SERVING		PER KG		REGULATORY ACTION LEVEL
Arsenic	**0.60**	**mg/serving**	0.66	mg/kg	12.5 mg/kg [1]
Cadmium	**<LOQ**	**mg/serving**	<LOQ	mg/kg	10 mg/kg [1]
Lead	**<LOQ**	**mg/serving**	<LOQ	mg/kg	10 mg/kg [1]
Mercury	**<LOQ**	**mg/serving**	<LOQ	mg/kg	0.267 mg/kg [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [2]

RESIDUAL SOLVENTS	Results		REGULATORY ACTION LEVEL
Ethanol	<LOQ	µg/g	50,000 mg/day
Heptane	<LOQ	µg/g	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	38.01	%
a-Bisabolol	31.23%	%
Guaiol	<LOQ	%
Humulene	<LOQ	%
Caryophyllene Oxide	30.75%	%

1. Deemy, M. Benjamin, L. FDA. (2019). *CVM CY15-17 Report on Heavy Metals in Animal Food*. Retrieved from: https://www.fda.gov/media/132046/download
2. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 24-000030/D008.R000
Report Date: 01/10/2024
ORELAP#: OR100028
Purchase Order:
Received: 01/02/24 16:18

Customer: Etz Hayim Holdings
Product identity: FORM-TN.FS.SAL20-FL62
Client/Metrc ID: .
Laboratory ID: 24-000030-0004

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g	0.851		mg/1g	
CBD per 1g	23.0		mg/1g	
CBDV per 1g	0.127		mg/1g	
CBE per 1g	0.434		mg/1g	
CBG per 1g	0.398		mg/1g	
CBN per 1g	0.0768		mg/1g	
CBT per 1g	0.707		mg/1g	
Δ9-THC per 1g	0.596		mg/1g	

CBD-Total per Serving Size 23.0 mg/1g

THC-Total per Serving Size 0.596 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
ß-Caryophyllene	0.0314	38.01%	a-Bisabolol	0.0258	31.23%
(-)-caryophyllene oxide	0.0254	30.75%	**Total Terpenes**	**0.0826**	**100.00%**

Metals:

Analyte	Result	Units	Limit	Status
Arsenic¥	0.656	mg/kg		

Microbiology:

Less than LOQ for all analytes.

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Report Date: 01/10/2024
ORELAP#: OR100028
Purchase Order:
Received: 01/02/24 16:18

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

Product identity: FORM-TN.FS.SAL20-FL62
Client/Metrc ID: .
Sample Date:
Laboratory ID: 24-000030-0004
Evidence of Cooling: No
Temp: 18.8 °C
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** mg/se **Batch:** 2400093 **Analyze:** 1/3/24 11:13:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.851		mg/1g	0.0329	
CBC-A per 1g	< LOQ		mg/1g	0.0329	
CBC-Total per 1g	0.851		mg/1g	0.0617	
CBD per 1g	23.0		mg/1g	0.329	
CBD-A per 1g	< LOQ		mg/1g	0.0329	
CBD-Total per 1g	23.0		mg/1g	0.358	
CBDV per 1g	0.127		mg/1g	0.0329	
CBDV-A per 1g	< LOQ		mg/1g	0.0329	
CBDV-Total per 1g	0.127		mg/1g	0.0614	
CBE per 1g	0.434		mg/1g	0.0329	
CBG per 1g	0.398		mg/1g	0.0329	
CBG-A per 1g	< LOQ		mg/1g	0.0329	
CBG-Total per 1g	0.398		mg/1g	0.0614	
CBL per 1g	< LOQ		mg/1g	0.0329	
CBL-A per 1g	< LOQ		mg/1g	0.0329	
CBL-Total per 1g	< LOQ		mg/1g	0.0617	
CBN per 1g	0.0768		mg/1g	0.0329	
CBT per 1g	0.707		mg/1g	0.0329	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0329	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0329	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0329	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0658	
Δ8-THC per 1g	< LOQ		mg/1g	0.0329	
Δ9-THC per 1g	0.596		mg/1g	0.0329	
delta-9-THCP per 1g	< LOQ		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	0.596		mg/1g	0.0617	
THCV per 1g	< LOQ		mg/1g	0.0329	
THCV-A per 1g	< LOQ		mg/1g	0.0329	

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ORELAP#: OR100028
Purchase Order:
Received: 01/02/24 16:18

Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2400093 **Analyze:** 1/3/24 11:13:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0618	
Total Cannabinoids per 1g	26.2		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2400134	01/07/24	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2400134	01/07/24	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2400135	01/08/24	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2400135	01/08/24	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2400188 **Analyze** 01/08/24 02:07 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		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							

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Purchase Order:
Received: 01/02/24 16:18

Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2400180 **Analyze** 01/08/24 10:57 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ	0.50	0.250	pass		Acephate¥	< LOQ	0.40	0.200	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							

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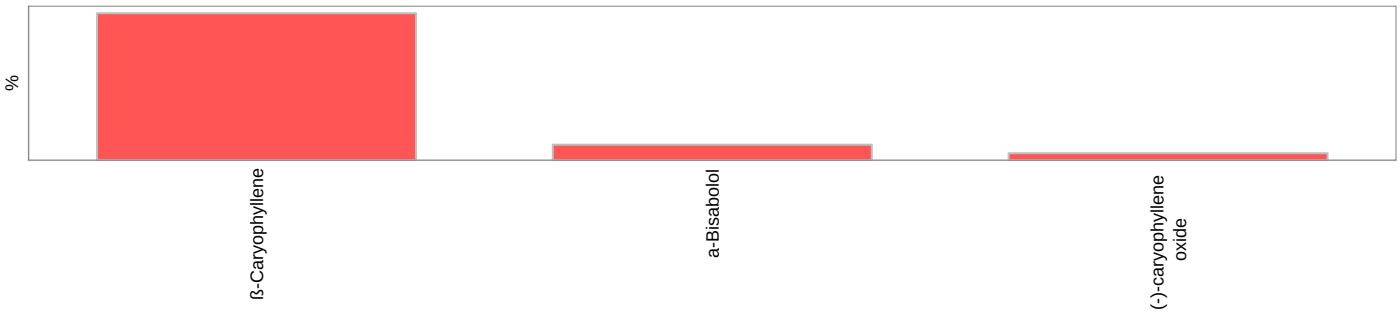
Report Date: 01/10/2024
ORELAP#: OR100028
Purchase Order:
Received: 01/02/24 16:18

Terpenes

Method: J AOAC 2015 V98-6 **Units** % **Batch** 2400206 **Analyze** 01/08/24 07:24 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
ß-Caryophyllene	0.0314	0.019	38.0145%		a-Bisabolol	0.0258	0.019	31.2349%	
(-)-caryophyllene oxide	0.0254	0.019	30.7506%		Humulene	< LOQ	0.019	0.00%	
(-)-Guaiol	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
Linalool	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%	
(±)-fenchone	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		(±)-trans-Nerolidol	< LOQ	0.019	0.00%	
a-Terpinene	< LOQ	0.019	0.00%		(-)-ß-Pinene	< LOQ	0.019	0.00%	
Menthol	< LOQ	0.019	0.00%		valencene	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		ß-Myrcene	< LOQ	0.019	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%	
(-)-a-Terpineol	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%	
(+)-Pulegone	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%	
(R)-(+)-Limonene	< 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%	
d-3-Carene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
farnesene	< LOQ	0.019	0.00%		gamma-Terpinene	< LOQ	0.019	0.00%	
Isoborneol	< LOQ	0.019	0.00%		nerol	< LOQ	0.019	0.00%	
p-Cymene	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%	
Sabinene hydrate	< LOQ	0.019	0.00%		trans-ß-Ocimene	< LOQ	0.012	0.00%	
Total Terpenes	**0.0826**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic¥	0.656		mg/kg	0.0898	2400223	01/08/24	AOAC 2013.06 (mod.)þ		
Cadmium¥	< LOQ		mg/kg	0.0898	2400223	01/08/24	AOAC 2013.06 (mod.)þ		
Lead¥	< LOQ		mg/kg	0.0898	2400223	01/08/24	AOAC 2013.06 (mod.)þ		
Mercury¥	< LOQ		mg/kg	0.0449	2400223	01/08/24	AOAC 2013.06 (mod.)þ		

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Abbreviations

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

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

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

Units of Measure

cfu/g = Colony forming units per gram
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

Approved Signatory

Derrick Tanner
General Manager

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

Laboratory Quality Control Results

JAOAC2015 V986 — Batch ID: 2400093

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0318	0.0329	%	96.7	80.0 - 120	Acceptable	
CBDV	2	0.0314	0.0322	%	97.5	80.0 - 120	Acceptable	
CBE	2	0.0335	0.0350	%	95.6	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.0317	%	95.2	90.0 - 110	Acceptable	
CBGA	1	0.0301	0.0315	%	95.5	80.0 - 120	Acceptable	
CBG	1	0.0294	0.0309	%	95.2	80.0 - 120	Acceptable	
CBD	1	0.0317	0.0330	%	95.9	90.0 - 110	Acceptable	
THCV	2	0.0338	0.0352	%	96.1	80.0 - 120	Acceptable	
d8THCV	2	0.0296	0.0307	%	96.2	80.0 - 120	Acceptable	
THCVA	2	0.0308	0.0320	%	96.3	80.0 - 120	Acceptable	
CBN	1	0.0321	0.0330	%	97.1	80.0 - 120	Acceptable	
exo-THC	2	0.0299	0.0313	%	95.5	80.0 - 120	Acceptable	
d9THC	1	0.0326	0.0337	%	96.8	90.0 - 110	Acceptable	
d8THC	1	0.0328	0.0336	%	97.6	90.0 - 110	Acceptable	
9Sd10THC	1	0.0315	0.0326	%	96.9	80.0 - 120	Acceptable	
CBL	2	0.0321	0.0326	%	98.5	80.0 - 120	Acceptable	
9SHHC	3	0.0307	0.0316	%	97.2	80.0 - 120	Acceptable	
9Rd10THC	1	0.0305	0.0318	%	95.9	80.0 - 120	Acceptable	
CBC	2	0.0317	0.0328	%	96.5	80.0 - 120	Acceptable	
9RHHC	3	0.0283	0.0293	%	96.7	80.0 - 120	Acceptable	
THCA	1	0.0308	0.0322	%	95.6	90.0 - 110	Acceptable	
CBCA	2	0.0322	0.0334	%	96.5	80.0 - 120	Acceptable	
CBLA	2	0.0327	0.0343	%	95.1	80.0 - 120	Acceptable	
d9THCP	2	0.0316	0.0328	%	96.1	80.0 - 120	Acceptable	
d8THCO	3	0.0335	0.0336	%	99.7	80.0 - 120	Acceptable	
CBT	2	0.0326	0.0341	%	95.6	80.0 - 120	Acceptable	
d9THCO	3	0.0342	0.0329	%	104	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBDV	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBE	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBDA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBGA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBG	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBD	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCV	<LOQ	0.00310	%	< 0.00310	Acceptable	
d8THCV	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCVA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBN	<LOQ	0.00310	%	< 0.00310	Acceptable	
exo-THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
d9THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
d8THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
9Sd10THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBL	<LOQ	0.00310	%	< 0.00310	Acceptable	
9SHHC	<LOQ	0.00310	%	< 0.00310	Acceptable	
9Rd10THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBC	<LOQ	0.00310	%	< 0.00310	Acceptable	
9RHHC	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBCA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBLA	<LOQ	0.00310	%	< 0.00310	Acceptable	
d9THCP	<LOQ	0.00310	%	< 0.00310	Acceptable	
d8THCO	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBT	<LOQ	0.00310	%	< 0.00310	Acceptable	
d9THCO	<LOQ	0.00310	%	< 0.00310	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: 24-000030/D008.R000
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ORELAP#: OR100028
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Laboratory Quality Control Results

JAOAC2015 V986 — Batch ID: 2400093
Sample Duplicate — Sample ID: 23-0151260001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDV	0.132	0.131	0.00314	%	0.314	< 20	Acceptable	
CBE	0.0640	0.0631	0.00314	%	1.31	< 20	Acceptable	
CBDA	0.393	0.391	0.00314	%	0.569	< 20	Acceptable	
CBGA	0.0351	0.0352	0.00314	%	0.174	< 20	Acceptable	
CBG	0.177	0.177	0.00314	%	0.0429	< 20	Acceptable	
CBD	9.36	9.27	0.00314	%	0.924	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBN	0.0306	0.0306	0.00314	%	0.241	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THC	0.754	0.752	0.00314	%	0.303	< 20	Acceptable	
d8THC	0.00564	0.00583	0.00314	%	3.27	< 20	Acceptable	
9Sd10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9SHHC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBC	0.305	0.304	0.00314	%	0.317	< 20	Acceptable	
9RHHC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBCA	0.0366	0.0363	0.00314	%	0.716	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBT	0.148	0.148	0.00314	%	0.0812	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	

Abbreviations

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LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662			Units: mg/Kg				Batch ID: 2400180			
Method Blank				Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits			Notes
Abamectin	0.000	< 0.250		1.002	1.000	100.2	50.0	150		
Acephate	0.115	< 0.200		0.782	0.800	97.8	60.0	120		
Acequinocyl	0.454	< 1.000		4.289	4.000	107.2	40.0	160		
Acetamiprid	0.000	< 0.100		0.366	0.400	91.4	60.0	120		
Aldicarb	0.000	< 0.200		0.754	0.800	94.3	60.0	120		
Azoxystrobin	0.000	< 0.100		0.337	0.400	84.1	60.0	120		
Bifenazate	0.000	< 0.100		0.372	0.400	92.9	60.0	120		
Bifenthrin	0.000	< 0.100		0.389	0.400	97.4	50.0	150		
Boscalid	0.000	< 0.200		0.772	0.800	96.5	60.0	120		
Carbaryl	0.000	< 0.100		0.375	0.400	93.7	60.0	120		
Carbofuran	0.000	< 0.100		0.390	0.400	97.4	60.0	120		
Chlorantraniliprole	0.000	< 0.100		0.378	0.400	94.5	60.0	120		
Chlorfenapyr	0.000	< 0.500		1.668	2.000	83.4	60.0	120		
Chlorpyrifos	0.000	< 0.100		0.367	0.400	91.8	60.0	120		
Clofentezine	0.000	< 0.100		0.358	0.400	89.6	60.0	120		
Cyfluthrin	0.000	< 0.500		1.907	2.000	95.4	50.0	150		
Cypermethrin	0.000	< 0.500		1.904	2.000	95.2	50.0	150		
Daminozide	0.000	< 0.500		0.660	2.000	33.0	60.0	120		Q7
Diazinon	0.000	< 0.100		0.364	0.400	91.0	60.0	120		
Dichlorvos	0.000	< 0.500		1.753	2.000	87.7	60.0	120		
Dimethoate	0.000	< 0.100		0.375	0.400	93.8	60.0	120		
Ethoprophos	0.000	< 0.100		0.353	0.400	88.3	60.0	120		
Etofenprox	0.015	< 0.200		0.795	0.800	99.4	50.0	150		
Etoxazole	0.000	< 0.100		0.376	0.400	94.0	60.0	120		
Fenoxycarb	0.000	< 0.100		0.368	0.400	91.9	60.0	120		
Fenpyroximate	0.000	< 0.200		0.758	0.800	94.7	60.0	120		
Fipronil	0.000	< 0.200		0.768	0.800	96.0	60.0	120		
Flonicamid	0.000	< 0.250		1.012	1.000	101.2	60.0	120		
Fludioxonil	0.000	< 0.200		0.702	0.800	87.7	50.0	150		
Hexythiazox	0.000	< 0.250		0.944	1.000	94.4	60.0	120		
Imazalil	0.000	< 0.100		0.359	0.400	89.8	60.0	120		
Imidacloprid	0.000	< 0.200		0.723	0.800	90.3	60.0	120		
Kresoxim-methyl	0.000	< 0.200		0.733	0.800	91.7	60.0	120		
Malathion	0.000	< 0.100		0.398	0.400	99.4	60.0	120		
Metalaxyl	0.000	< 0.100		0.377	0.400	94.2	60.0	120		
Methiocarb	0.000	< 0.100		0.377	0.400	94.2	60.0	120		
Methomyl	0.000	< 0.200		0.839	0.800	104.9	60.0	120		
MGK-264	0.000	< 0.100		0.349	0.400	87.2	50.0	150		
Myclobutanil	0.000	< 0.100		0.362	0.400	90.5	60.0	120		
Naled	0.000	< 0.250		0.912	1.000	91.2	50.0	150		
Oxamyl	0.000	< 0.500		2.011	2.000	100.6	60.0	120		
Paclobutrazole	0.000	< 0.200		0.782	0.800	97.8	60.0	120		
Parathion-Methyl	0.000	< 0.100		0.393	0.400	98.3	50.0	150		
Permethrin	0.015	< 0.100		0.397	0.400	99.2	50.0	150		
Phosmet	0.000	< 0.100		0.362	0.400	90.6	50.0	150		
Piperonyl butoxide	0.000	< 0.500		1.932	2.000	96.6	60.0	120		
Prallethrin	0.000	< 0.100		0.343	0.400	85.8	60.0	120		
Propiconazole	0.000	< 0.200		0.724	0.800	90.5	60.0	120		
Propoxur	0.000	< 0.100		0.388	0.400	97.0	60.0	120		
Pyrethrin (Summe)	0.000	< 0.100		0.448	0.488	91.9	60.0	120		
Pyridaben	0.000	< 0.100		0.377	0.400	94.3	50.0	150		
Spinosad	0.000	< 0.100		0.363	0.388	93.5	50.0	150		
Spiromesifen	0.000	< 0.100		0.357	0.400	89.2	60.0	120		
Spirotetramat	0.000	< 0.100		0.359	0.400	89.9	60.0	120		
Spiroxamine	0.000	< 0.200		0.746	0.800	93.2	60.0	120		
Tebuconazole	0.000	< 0.200		0.759	0.800	94.9	60.0	120		
Thiadoprid	0.000	< 0.100		0.372	0.400	92.9	60.0	120		
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.7	60.0	120		
Trifloxystrobin	0.000	< 0.100		0.351	0.400	87.9	60.0	120		

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2400180

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 24-0000300003

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.909	0.947	1.000	4.0%	< 30	90.9%	94.7%	50 - 150	
Acephate	0.134	0.791	0.746	0.800	7.0%	< 30	82.1%	76.5%	50 - 150	
Acequinocyl	0.000	3.405	4.456	4.000	26.7%	< 30	85.1%	111.4%	50 - 150	
Acetamiprid	0.000	0.376	0.372	0.400	1.0%	< 30	94.1%	93.1%	50 - 150	
Aldicarb	0.000	0.716	0.721	0.800	0.7%	< 30	89.5%	90.2%	50 - 150	
Azoxystrobin	0.000	0.371	0.348	0.400	6.6%	< 30	92.8%	86.9%	50 - 150	
Bifenazate	0.000	0.355	0.346	0.400	2.4%	< 30	88.8%	86.6%	50 - 150	
Bifenthrin	0.000	0.348	0.402	0.400	14.5%	< 30	87.0%	100.6%	50 - 150	
Boscalid	0.000	0.720	0.730	0.800	1.3%	< 30	90.0%	91.2%	50 - 150	
Carbaryl	0.000	0.357	0.357	0.400	0.1%	< 30	89.3%	89.3%	50 - 150	
Carbofuran	0.000	0.357	0.363	0.400	1.7%	< 30	89.2%	90.7%	50 - 150	
Chlorantraniliprole	0.000	0.335	0.341	0.400	1.7%	< 30	83.9%	85.3%	50 - 150	
Chlorfenapyr	0.000	1.818	1.567	2.000	14.8%	< 30	90.9%	78.4%	50 - 150	
Chlorpyrifos	0.000	0.322	0.329	0.400	2.1%	< 30	80.6%	82.4%	50 - 150	
Clofentezine	0.000	0.297	0.290	0.400	2.4%	< 30	74.3%	72.5%	50 - 150	
Cyfluthrin	0.000	1.968	2.084	2.000	5.7%	< 30	98.4%	104.2%	30 - 150	
Cypermethrin	0.000	2.105	2.132	2.000	1.3%	< 30	105.3%	106.6%	50 - 150	
Daminozide	0.000	0.646	0.635	2.000	1.7%	< 30	32.3%	31.8%	30 - 150	
Diazinon	0.000	0.332	0.335	0.400	0.9%	< 30	82.9%	83.6%	50 - 150	
Dichlorvos	0.000	1.805	1.858	2.000	2.9%	< 30	90.2%	92.9%	50 - 150	
Dimethoate	0.000	0.362	0.359	0.400	0.8%	< 30	90.5%	89.7%	50 - 150	
Ethoprophos	0.000	0.353	0.346	0.400	2.1%	< 30	88.3%	86.5%	50 - 150	
Etofenprox	0.000	0.680	0.779	0.800	13.6%	< 30	85.0%	97.4%	50 - 150	
Etoxazole	0.000	0.351	0.316	0.400	10.7%	< 30	87.9%	79.0%	50 - 150	
Fenoxycarb	0.000	0.331	0.342	0.400	3.5%	< 30	82.7%	85.6%	50 - 150	
Fenpyroximate	0.000	0.717	0.741	0.800	3.2%	< 30	89.7%	92.6%	50 - 150	
Fipronil	0.000	0.695	0.741	0.800	6.3%	< 30	86.9%	92.6%	50 - 150	
Flonicamid	0.000	1.006	1.004	1.000	0.3%	< 30	100.6%	100.4%	50 - 150	
Fludioxonil	0.000	0.570	0.605	0.800	6.1%	< 30	71.2%	75.7%	50 - 150	
Hexythiazox	0.000	0.874	0.878	1.000	0.4%	< 30	87.4%	87.8%	50 - 150	
Imazalil	0.000	0.343	0.344	0.400	0.3%	< 30	85.7%	86.0%	50 - 150	
Imidacloprid	0.000	0.684	0.648	0.800	5.5%	< 30	85.5%	80.9%	50 - 150	
Kresoxim-methyl	0.000	0.684	0.657	0.800	4.0%	< 30	85.5%	82.2%	50 - 150	
Malathion	0.000	0.344	0.347	0.400	0.8%	< 30	86.0%	86.7%	50 - 150	
Metalaxyl	0.000	0.360	0.350	0.400	2.6%	< 30	89.9%	87.6%	50 - 150	
Methiocarb	0.000	0.352	0.337	0.400	4.4%	< 30	87.9%	84.2%	50 - 150	
Methomyl	0.000	0.833	0.802	0.800	3.8%	< 30	104.1%	100.2%	50 - 150	
MGK-264	0.000	0.323	0.335	0.400	3.5%	< 30	80.9%	83.7%	50 - 150	
Myclobutanil	0.000	0.354	0.338	0.400	4.7%	< 30	88.4%	84.4%	50 - 150	
Naled	0.000	0.872	0.851	1.000	2.5%	< 30	87.2%	85.1%	50 - 150	
Oxamyl	0.000	1.969	1.893	2.000	3.9%	< 30	98.5%	94.7%	50 - 150	
Paclobutrazole	0.000	0.771	0.772	0.800	0.1%	< 30	96.4%	96.5%	50 - 150	
Parathion-Methyl	0.020	0.359	0.418	0.400	16.0%	< 30	84.8%	99.5%	30 - 150	
Permethrin	0.013	0.346	0.384	0.400	11.0%	< 30	83.2%	92.9%	50 - 150	
Phosmet	0.000	0.333	0.345	0.400	3.4%	< 30	83.3%	86.1%	50 - 150	
Piperonyl butoxide	0.000	1.766	1.767	2.000	0.1%	< 30	88.3%	88.4%	50 - 150	
Prallethrin	0.000	0.326	0.327	0.400	0.4%	< 30	81.5%	81.8%	50 - 150	
Propiconazole	0.000	0.667	0.695	0.800	4.1%	< 30	83.4%	86.9%	50 - 150	
Propoxur	0.000	0.346	0.361	0.400	4.2%	< 30	86.5%	90.2%	50 - 150	
Pyrethrin (Summe)	0.000	0.433	0.437	0.488	0.8%	< 30	88.8%	89.5%	50 - 150	
Pyridaben	0.000	0.400	0.404	0.400	0.9%	< 30	100.1%	101.0%	50 - 150	
Spinosad	0.000	0.329	0.335	0.388	1.8%	< 30	84.7%	86.3%	50 - 150	
Spiromesifen	0.000	0.343	0.347	0.400	1.0%	< 30	85.9%	86.7%	50 - 150	
Spirotetramat	0.000	0.327	0.328	0.400	0.2%	< 30	81.8%	81.9%	50 - 150	
Spiroxamine	0.000	0.704	0.706	0.800	0.2%	< 30	88.0%	88.2%	50 - 150	
Tebuconazole	0.000	0.707	0.727	0.800	2.9%	< 30	88.3%	90.9%	50 - 150	
Thiadoprid	0.000	0.357	0.352	0.400	1.5%	< 30	89.3%	88.0%	50 - 150	
Thiamethoxam	0.000	0.395	0.354	0.400	11.1%	< 30	98.8%	88.4%	50 - 150	
Trifloxystrobin	0.000	0.328	0.336	0.400	2.4%	< 30	82.0%	84.0%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents — Batch ID: 2400188

Analyte	Method Blank Result		LOQ	Notes	Laboratory Control Sample Result	Spike	Units	%Rec	Limits		Notes
Propane	ND	<	200		531	584	µg/g	90.9	60 -	120	
Isobutane	ND	<	200		593	767	µg/g	77.3	60 -	120	
Butane	ND	<	200		587	782	µg/g	75.1	60 -	120	
2,2-Dimethylpropane	ND	<	200		842	939	µg/g	89.7	60 -	120	
Methanol	ND	<	200		1420	1600	µg/g	88.8	60 -	120	
Ethylene Oxide	ND	<	30		46.6	57.1	µg/g	81.6	60 -	120	
2-Methylbutane	ND	<	200		1390	1600	µg/g	86.9	60 -	120	
Pentane	ND	<	200		1360	1600	µg/g	85.0	60 -	120	
Ethanol	ND	<	200		1300	1600	µg/g	81.3	70 -	130	
Ethyl Ether	ND	<	200		1370	1600	µg/g	85.6	60 -	120	
2,2-Dimethylbutane	ND	<	30		138	161	µg/g	85.7	60 -	120	
Acetone	ND	<	200		1440	1600	µg/g	90.0	60 -	120	
2-Propanol	ND	<	200		1410	1600	µg/g	88.1	60 -	120	
Ethyl Formate	ND	<	500		1140	1600	µg/g	71.3	70 -	130	
Acetonitrile	ND	<	100		430	488	µg/g	88.1	60 -	120	
Methyl Acetate	ND	<	500		1410	1610	µg/g	87.6	70 -	130	
2,3-Dimethylbutane	ND	<	30		140	163	µg/g	85.9	60 -	120	
Dichloromethane	ND	<	60		407	488	µg/g	83.4	60 -	120	
2-Methylpentane	ND	<	30		132	161	µg/g	82.0	60 -	120	
MTBE	ND	<	500		1530	1650	µg/g	92.7	70 -	130	
3-Methylpentane	ND	<	30		134	162	µg/g	82.7	60 -	120	
Hexane	ND	<	30		118	161	µg/g	73.3	60 -	120	
1-Propanol	ND	<	500		1450	1620	µg/g	89.5	70 -	130	
Methylethylketone	ND	<	500		1450	1610	µg/g	90.1	70 -	130	
Ethyl acetate	ND	<	200		1420	1610	µg/g	88.2	60 -	120	
2-Butanol	ND	<	200		1400	1610	µg/g	87.0	60 -	120	
Tetrahydrofuran	ND	<	100		409	483	µg/g	84.7	60 -	120	
Cyclohexane	ND	<	200		1340	1600	µg/g	83.8	60 -	120	
2-methyl-1-propanol	ND	<	500		1290	1600	µg/g	80.6	70 -	130	
Benzene	ND	<	1		2.66	4.99	µg/g	53.3	60 -	120	Q6
Isopropyl Acetate	ND	<	200		1440	1600	µg/g	90.0	60 -	120	
Heptane	ND	<	200		1410	1600	µg/g	88.1	60 -	120	
1-Butanol	ND	<	500		1340	1610	µg/g	83.2	70 -	130	
Propyl Acetate	ND	<	500		1490	1610	µg/g	92.5	70 -	130	
1,4-Dioxane	ND	<	100		379	480	µg/g	79.0	60 -	120	
2-Ethoxyethanol	ND	<	30		113	161	µg/g	70.2	60 -	120	
Methylisobutylketone	ND	<	500		1440	1610	µg/g	89.4	70 -	130	
3-Methyl-1-butanol	ND	<	500		1330	1610	µg/g	82.6	70 -	130	
Ethylene Glycol	ND	<	200		266	481	µg/g	55.3	60 -	120	Q6
Toluene	ND	<	100		410	483	µg/g	84.9	60 -	120	
Isobutyl Acetate	ND	<	500		1490	1610	µg/g	92.5	70 -	130	
1-Pentanol	ND	<	500		1320	1610	µg/g	82.0	70 -	130	
Butyl Acetate	ND	<	500		1420	1600	µg/g	88.8	70 -	130	
Ethylbenzene	ND	<	200		850	962	µg/g	88.4	60 -	120	
m,p-Xylene	ND	<	200		850	972	µg/g	87.4	60 -	120	
o-Xylene	ND	<	200		834	965	µg/g	86.4	60 -	120	
Cumene	ND	<	30		133	169	µg/g	78.7	60 -	120	
Anisole	ND	<	500		1310	1600	µg/g	81.9	70 -	130	
DMSO	ND	<	500		973	1600	µg/g	60.8	70 -	130	Q6
1,2-dimethoxyethane	ND	<	50		151	163	µg/g	92.6	70 -	130	
Triethylamine	ND	<	500		1140	1600	µg/g	71.3	70 -	130	
N,N-dimethylformamide	ND	<	150		368	482	µg/g	76.3	70 -	130	
N,N-dimethylacetamide	ND	<	150		397	483	µg/g	82.2	70 -	130	
Pyridine	ND	<	50		125	161	µg/g	77.6	70 -	130	
Sulfolane	ND	<	50		77.8	163	µg/g	47.7	70 -	130	Q6
1,2-Dichloroethane	ND	<	1		0.835	1	µg/g	83.5	70 -	130	
Chloroform	ND	<	1		0.728	1	µg/g	72.8	70 -	130	
Trichloroethylene	ND	<	1		0.77	1	µg/g	77.0	70 -	130	
1,1-Dichloroethane	ND	<	1		0.855	1	µg/g	85.5	70 -	130	

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QC- Sample Duplicate — Sample ID: 23-015123-0001

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

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Terpenes Quality Control Results

Method Reference: EPA 5035 — Batch ID: 2400206

	Method Blank				Laboratory Control Sample					
Analyte	Result		LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
Camphene	<LOQ	<	200		440	500	µg/g	88%	70 - 130	
Sabinene	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
b-Pinene	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
b-Myrcene	<LOQ	<	200		436	500	µg/g	87%	70 - 130	
a-phelllandrene	<LOQ	<	200		448	500	µg/g	90%	70 - 130	
d-3-Carene	<LOQ	<	200		450	500	µg/g	90%	70 - 130	
a-Terpinene	<LOQ	<	200		443	500	µg/g	89%	70 - 130	
p-Cymene	<LOQ	<	200		439	500	µg/g	88%	70 - 130	
D-Limonene	<LOQ	<	200		433	500	µg/g	87%	70 - 130	
Eucalyptol	<LOQ	<	200		430	500	µg/g	86%	70 - 130	
b-cis-Ocimene	<LOQ	<	67		149	167	µg/g	89%	70 - 130	
b-trans-Ocimene	<LOQ	<	133		294	333	µg/g	88%	70 - 130	
g-Terpinene	<LOQ	<	200		447	500	µg/g	89%	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		447	500	µg/g	89%	70 - 130	
Terpinolene	<LOQ	<	200		439	500	µg/g	88%	70 - 130	
D-Fenchone	<LOQ	<	200		432	500	µg/g	86%	70 - 130	
Linalool	<LOQ	<	200		458	500	µg/g	92%	70 - 130	
Fenchol	<LOQ	<	200		450	500	µg/g	90%	70 - 130	
Camphor	<LOQ	<	200		439	500	µg/g	88%	70 - 130	
Isopulego	<LOQ	<	200		483	500	µg/g	97%	70 - 130	
Isoborneol	<LOQ	<	200		465	500	µg/g	93%	70 - 130	
Borneol	<LOQ	<	200		452	500	µg/g	90%	70 - 130	
DL-Menthol	<LOQ	<	200		455	500	µg/g	91%	70 - 130	
Terpineol	<LOQ	<	200		464	500	µg/g	93%	70 - 130	
Nerol	<LOQ	<	200		449	500	µg/g	90%	70 - 130	
Pulegone	<LOQ	<	200		468	500	µg/g	94%	70 - 130	
Geraniol	<LOQ	<	200		453	500	µg/g	91%	70 - 130	
Geranyl_Acetate	<LOQ	<	200		462	500	µg/g	92%	70 - 130	
a-Cedrene	<LOQ	<	200		470	500	µg/g	94%	70 - 130	
b-Caryophyllene	<LOQ	<	200		484	500	µg/g	97%	70 - 130	
a-Humulene	<LOQ	<	200		468	500	µg/g	94%	70 - 130	
Valencene	<LOQ	<	200		471	500	µg/g	94%	70 - 130	
cis-Nerolidol	<LOQ	<	200		483	500	µg/g	97%	70 - 130	
a-Farnesene	<LOQ	<	200		510	500	µg/g	102%	70 - 130	
trans-Nerolidol	<LOQ	<	200		477	500	µg/g	95%	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		471	500	µg/g	94%	70 - 130	
Guaiol	<LOQ	<	200		484	500	µg/g	97%	70 - 130	
Cedrol	<LOQ	<	200		473	500	µg/g	95%	70 - 130	
a-Bisabolol	<LOQ	<	200		474	500	µg/g	95%	70 - 130	

Definitions

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

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Terpenes Quality Control Results

Method Reference: EPA 5035 — Batch ID: 2400206

Sample/ Sample Duplicate — Sample ID: 24-000030-0004

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-phelllandrene	<LOQ	<LOQ	191	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	191	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	63.6	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	127	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	191	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	191	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	191	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	191	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	191	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	191	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	191	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	191	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	191	µg/g	0%	< 20	
b-Caryophyllene	319	314	191	µg/g	2%	< 20	
a-Humulene	<LOQ	<LOQ	191	µg/g	0%	< 20	
Valencene	<LOQ	<LOQ	191	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	191	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Caryophyllene_Oxide	256	254	191	µg/g	1%	< 20	
Guaiol	<LOQ	<LOQ	191	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	191	µg/g	0%	< 20	
a-Bisabolol	259	258	191	µg/g	0%	< 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.