Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.ISO.BO50 **BATCH #** FH54

PRODUCT NAME Tincture - Isolate - Blood Orange **SERVING SIZE** 1 Dropper (1mL)

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)	**57.60**	**mg/serving**	53	mg/g	5.3 %
Total THC (d9-THC, THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabigerol (CBG)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabinol (CBN)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Cannabichromene (CBC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Tetrahydrocannabinolic Acid (THCA)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
Delta-9-THC (d9-THC)	**<LOQ**	**mg/serving**	<LOQ	mg/g	<LOQ %
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	6 µg/day [1]
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	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

1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-009704/D004.R000
Report Date:	08/27/2023
ORELAP#:	OR100028
Purchase Order:	2597833
Received:	08/15/23 16:05

Customer:	Etz Hayim Holdings
Product identity:	FORM-TN.ISO.BO50-FH54
Client/Metrc ID:	.
Laboratory ID:	23-009704-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBD per 1g	53.0		mg/1g	
CBDV per 1g	0.207		mg/1g	

CBD-Total per Serving Size 53.0 mg/1g

THC-Total per Serving Size <LOQ

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

Testing in accordance with: OAR 333-007-0430

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Report Number:	23-009704/D004.R000
Report Date:	08/27/2023
ORELAP#:	OR100028
Purchase Order:	2597833
Received:	08/15/23 16:05

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

Product identity: FORM-TN.ISO.BO50-FH54
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-009704-0001
Evidence of Cooling: No
Temp: 26.4 °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:** 2310097 **Analyze:** 8/17/23 3:07:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0326	
CBC-A per 1g	< LOQ		mg/1g	0.0326	
CBC-Total per 1g	< LOQ		mg/1g	0.0613	
CBD per 1g	53.0		mg/1g	0.326	
CBD-A per 1g	< LOQ		mg/1g	0.0326	
CBD-Total per 1g	53.0		mg/1g	0.355	
CBDV per 1g	0.207		mg/1g	0.0326	
CBDV-A per 1g	< LOQ		mg/1g	0.0326	
CBDV-Total per 1g	0.207		mg/1g	0.0609	
CBE per 1g	< LOQ		mg/1g	0.0326	
CBG per 1g	< LOQ		mg/1g	0.0326	
CBG-A per 1g	< LOQ		mg/1g	0.0326	
CBG-Total per 1g	< LOQ		mg/1g	0.0609	
CBL per 1g	< LOQ		mg/1g	0.0326	
CBL-A per 1g	< LOQ		mg/1g	0.0326	
CBL-Total per 1g	< LOQ		mg/1g	0.0613	
CBN per 1g	< LOQ		mg/1g	0.0326	
CBT per 1g	< LOQ		mg/1g	0.0326	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0653	
Δ8-THC per 1g	< LOQ		mg/1g	0.0326	
Δ9-THC per 1g	< LOQ		mg/1g	0.0326	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0326	
exo-THC per 1g	< LOQ		mg/1g	0.0326	
THC-A per 1g	< LOQ		mg/1g	0.0326	
THC-Total per 1g	< LOQ		mg/1g	0.0613	
THCV per 1g	< LOQ		mg/1g	0.0326	
THCV-A per 1g	< LOQ		mg/1g	0.0326	

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Report Date: 08/27/2023
ORELAP#: OR100028
Purchase Order: 2597833
Received: 08/15/23 16:05

Potency per 1g

Method: J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2310097 **Analyze:** 8/17/23 3:07:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0613	
Total Cannabinoids per 1g	53.2		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310219	08/24/23	AOAC 991.14 (Petrifilm)þ		
Total Coliforms	< LOQ		cfu/g	10	2310219	08/24/23	AOAC 991.14 (Petrifilm)þ		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310220	08/24/23	AOAC 2014.05 (RAPID)þ		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310220	08/24/23	AOAC 2014.05 (RAPID)þ		

Solvents

Method: Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2310337 **Analyze** 08/24/23 03:14 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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ORELAP#: OR100028
Purchase Order: 2597833
Received: 08/15/23 16:05

Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2310244 **Analyze** 08/22/23 01:49 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ	0.50	0.250	pass		Acephate¥	< LOQ	0.40	0.200	pass	
Acequinocyl¥	< LOQ	2.0	1.00	pass		Acetamiprid¥	< LOQ	0.20	0.100	pass	
Aldicarb¥	< LOQ	0.40	0.200	pass		Azoxystrobin¥	< LOQ	0.20	0.100	pass	
Bifenazate¥	< LOQ	0.20	0.100	pass		Bifenthrin¥	< LOQ	0.20	0.100	pass	
Boscalid¥	< LOQ	0.40	0.200	pass		Carbaryl¥	< LOQ	0.20	0.100	pass	
Carbofuran¥	< LOQ	0.20	0.100	pass		Chlorantraniliprole¥	< LOQ	0.20	0.100	pass	
Chlorfenapyr¥	< LOQ	1.0	0.500	pass		Chlorpyrifos¥	< LOQ	0.20	0.100	pass	
Clofentezine¥	< LOQ	0.20	0.100	pass		Cyfluthrin¥	< LOQ	1.0	0.500	pass	
Cypermethrin¥	< LOQ	1.0	0.500	pass		Daminozide¥	< LOQ	1.0	0.500	pass	
Diazinon¥	< LOQ	0.20	0.100	pass		Dichlorvos¥	< LOQ	1.0	0.500	pass	
Dimethoate¥	< LOQ	0.20	0.100	pass		Ethoprophos¥	< LOQ	0.20	0.100	pass	
Etofenprox¥	< LOQ	0.40	0.200	pass		Etoxazole¥	< LOQ	0.20	0.100	pass	
Fenoxycarb¥	< LOQ	0.20	0.100	pass		Fenpyroximate¥	< LOQ	0.40	0.200	pass	
Fipronil¥	< LOQ	0.40	0.200	pass		Flonicamid¥	< LOQ	1.0	0.400	pass	
Fludioxonil¥	< LOQ	0.40	0.200	pass		Hexythiazox¥	< LOQ	1.0	0.400	pass	
Imazalil¥	< LOQ	0.20	0.100	pass		Imidacloprid¥	< LOQ	0.40	0.200	pass	
Kresoxim-methyl¥	< LOQ	0.40	0.200	pass		Malathion¥	< LOQ	0.20	0.100	pass	
Metalaxyl¥	< LOQ	0.20	0.100	pass		Methiocarb¥	< LOQ	0.20	0.100	pass	
Methomyl¥	< LOQ	0.40	0.200	pass		MGK-264¥	< LOQ	0.20	0.100	pass	
Myclobutanil¥	< LOQ	0.20	0.100	pass		Naled¥	< LOQ	0.50	0.250	pass	
Oxamyl¥	< LOQ	1.0	0.500	pass		Paclobutrazole¥	< LOQ	0.40	0.200	pass	
Parathion-Methyl¥	< LOQ	0.20	0.100	pass		Permethrin¥	< LOQ	0.20	0.100	pass	
Phosmet¥	< LOQ	0.20	0.100	pass		Piperonyl butoxide¥	< LOQ	2.0	1.00	pass	
Prallethrin¥	< LOQ	0.20	0.100	pass		Propiconazole¥	< LOQ	0.40	0.200	pass	
Propoxur¥	< LOQ	0.20	0.100	pass		Pyrethrin I (total)¥	< LOQ	1.0	0.500	pass	
Pyridaben¥	< LOQ	0.20	0.100	pass		Spinosad¥	< LOQ	0.20	0.100	pass	
Spiromesifen¥	< LOQ	0.20	0.100	pass		Spirotetramat¥	< LOQ	0.20	0.100	pass	
Spiroxamine¥	< LOQ	0.40	0.200	pass		Tebuconazole¥	< LOQ	0.40	0.200	pass	
Thiacloprid¥	< LOQ	0.20	0.100	pass		Thiamethoxam¥	< LOQ	0.20	0.100	pass	
Trifloxystrobin¥	< LOQ	0.20	0.100	pass							

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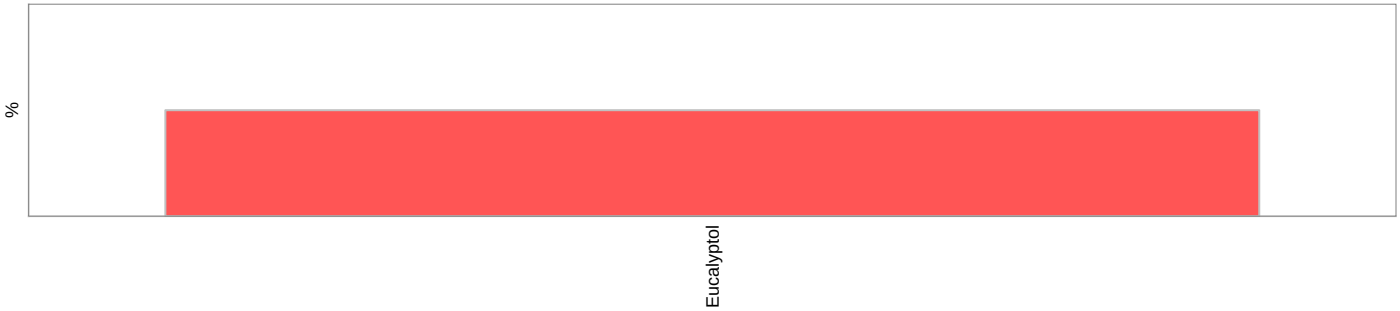
ORELAP#: OR100028
Purchase Order: 2597833
Received: 08/15/23 16:05

Terpenes

Method: J AOAC 2015 V98-6 **Units** % **Batch** 2310379 **Analyze** 08/24/23 08:02 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Eucalyptol	0.0275	0.019	100.0000%		(-)-a-Terpineol	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide	< LOQ	0.019	0.00%		(-)-Guaiol	< LOQ	0.019	0.00%	
(-)-Isopulegol	< LOQ	0.019	0.00%		(-)-ß-Pinene	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%	
(+)-fenchol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%	
(±)-Camphor	< 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%	
(R)-(+)-Limonene	< LOQ	0.019	0.00%		a-Bisabolol	< 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%		a-Terpinene	< 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%		farnesene	< LOQ	0.019	0.00%	
gamma-Terpinene	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		Humulene	< LOQ	0.019	0.00%	
Isoborneol	< LOQ	0.019	0.00%		Linalool	< LOQ	0.019	0.00%	
Menthol	< 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%		ß-Caryophyllene	< LOQ	0.019	0.00%	
ß-Myrcene	< 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	**0.0275**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic¥	< LOQ	0.200	mg/kg	0.0925	2310296	08/23/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0925	2310296	08/23/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0925	2310296	08/23/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.0463	2310296	08/23/23	AOAC 2013.06 (mod.)þ	pass	

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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.

ᵇ = 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

J AOAC 2015 V98-6 **Batch ID: 2310097**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0318	0.0311	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0315	0.0307	%	103	80.0 - 120	Acceptable	
CBE	2	0.0355	0.0349	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0329	0.0336	%	98.0	90.0 - 110	Acceptable	
CBGA	1	0.0329	0.0336	%	98.1	80.0 - 120	Acceptable	
CBG	1	0.0343	0.0344	%	99.5	80.0 - 120	Acceptable	
CBD	1	0.0349	0.0352	%	99.1	90.0 - 110	Acceptable	
THCV	2	0.0229	0.0222	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0276	0.0272	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0318	0.0310	%	103	80.0 - 120	Acceptable	
CBN	1	0.0352	0.0351	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0318	0.0311	%	102	80.0 - 120	Acceptable	
d9THC	1	0.0350	0.0345	%	102	90.0 - 110	Acceptable	
d8THC	1	0.0324	0.0325	%	99.8	90.0 - 110	Acceptable	
9Sd10THC	1	0.0354	0.0354	%	100	80.0 - 120	Acceptable	
CBL	2	0.0314	0.0311	%	101	80.0 - 120	Acceptable	
9Rd10THC	1	0.0319	0.0323	%	99.0	80.0 - 120	Acceptable	
CBC	2	0.0324	0.0319	%	102	80.0 - 120	Acceptable	
THCA	1	0.0323	0.0331	%	97.8	90.0 - 110	Acceptable	
CBCA	2	0.0333	0.0325	%	102	80.0 - 120	Acceptable	
CBLA	2	0.0508	0.0500	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0330	0.0323	%	102	80.0 - 120	Acceptable	
CBT	2	0.0323	0.0314	%	103	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBDV	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBE	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBDA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBGA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBG	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBD	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCV	<LOQ	0.00320	%	< 0.00320	Acceptable	
d8THCV	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCVA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBN	<LOQ	0.00320	%	< 0.00320	Acceptable	
exo-THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
d9THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
d8THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
9Sd10THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBL	<LOQ	0.00320	%	< 0.00320	Acceptable	
9Rd10THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBC	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBCA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBLA	<LOQ	0.00320	%	< 0.00320	Acceptable	
d9THCP	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBT	<LOQ	0.00320	%	< 0.00320	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

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503-254-1794

Report Number: 23-009704/D004.R000
Report Date: 08/27/2023
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2310097**

Sample Duplicate Sample ID: **23-009639-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBDA	0.342	0.276	0.00307	%	21.1	< 20	Outlier	Q4
CBGA	0.00843	0.00670	0.00307	%	22.9	< 20	Outlier	Q4
CBG	0.00391	<LOQ	0.00307	%	NA	< 20	Acceptable	R2
CBD	0.154	0.126	0.00307	%	20.6	< 20	Outlier	Q4
THCV	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d9THC	0.00750	0.00686	0.00307	%	8.89	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
9Sd10THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBC	0.00744	0.00602	0.00307	%	21.0	< 20	Outlier	Q4
THCA	0.00573	0.00464	0.00307	%	21.0	< 20	Outlier	Q4
CBCA	0.0154	0.0125	0.00307	%	21.1	< 20	Outlier	Q4
CBLA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
Q4 - Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:

% - Percent

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2310244

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		1.020	1.000	102.0	50.0	150	
Acephate	0.000	< 0.200		0.787	0.800	98.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.596	4.000	89.9	40.0	160	
Acetamiprid	0.000	< 0.100		0.406	0.400	101.4	60.0	120	
Aldicarb	0.000	< 0.200		0.786	0.800	98.3	60.0	120	
Azoxystrobin	0.000	< 0.100		0.428	0.400	107.0	60.0	120	
Bifenazate	0.000	< 0.100		0.401	0.400	100.2	60.0	120	
Bifenthrin	0.000	< 0.100		0.386	0.400	96.6	50.0	150	
Boscalid	0.000	< 0.200		0.805	0.800	100.6	60.0	120	
Carbaryl	0.000	< 0.100		0.403	0.400	100.8	60.0	120	
Carbofuran	0.000	< 0.100		0.404	0.400	101.1	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.377	0.400	94.3	60.0	120	
Chlorfenapyr	0.000	< 0.500		2.140	2.000	107.0	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.384	0.400	96.1	60.0	120	
Clofentezine	0.000	< 0.100		0.354	0.400	88.6	60.0	120	
Cyfluthrin	0.000	< 0.500		2.119	2.000	105.9	50.0	150	
Cypermethrin	0.000	< 0.500		2.017	2.000	100.9	50.0	150	
Daminozide	0.000	< 0.500		0.730	2.000	***36.5***	60.0	120	**Q6**
Diazinon	0.000	< 0.100		0.377	0.400	94.1	60.0	120	
Dichlorvos	0.000	< 0.500		2.073	2.000	103.6	60.0	120	
Dimethoate	0.000	< 0.100		0.403	0.400	100.7	60.0	120	
Ethoprophos	0.000	< 0.100		0.389	0.400	97.3	60.0	120	
Etofenprox	0.000	< 0.200		0.785	0.800	98.1	50.0	150	
Etoxazole	0.000	< 0.100		0.425	0.400	106.1	60.0	120	
Fenoxycarb	0.000	< 0.100		0.415	0.400	103.6	60.0	120	
Fenpyroximate	0.000	< 0.200		0.787	0.800	98.4	60.0	120	
Fipronil	0.000	< 0.200		0.814	0.800	101.7	60.0	120	
Flonicamid	0.000	< 0.250		0.967	1.000	96.7	60.0	120	
Fludioxonil	0.000	< 0.200		0.768	0.800	96.1	50.0	150	
Hexythiazox	0.000	< 0.250		1.074	1.000	107.4	60.0	120	
Imazalil	0.000	< 0.100		0.400	0.400	100.1	60.0	120	
Imidacloprid	0.000	< 0.200		0.794	0.800	99.3	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.839	0.800	104.9	60.0	120	
Malathion	0.000	< 0.100		0.398	0.400	99.5	60.0	120	
Metalaxyl	0.000	< 0.100		0.390	0.400	97.5	60.0	120	
Methiocarb	0.000	< 0.100		0.403	0.400	100.6	60.0	120	
Methomyl	0.000	< 0.200		0.791	0.800	98.9	60.0	120	
MGK-264	0.000	< 0.100		0.401	0.400	100.2	50.0	150	
Myclobutanil	0.000	< 0.100		0.389	0.400	97.3	60.0	120	
Naled	0.000	< 0.250		1.051	1.000	105.1	50.0	150	
Oxamyl	0.000	< 0.500		1.964	2.000	98.2	60.0	120	
Paclobutrazole	0.000	< 0.200		0.825	0.800	103.2	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.401	0.400	100.2	50.0	150	
Permethrin	0.000	< 0.100		0.400	0.400	100.0	50.0	150	
Phosmet	0.000	< 0.100		0.407	0.400	101.9	50.0	150	
Piperonyl butoxide	0.000	< 0.500		2.203	2.000	110.1	60.0	120	
Prallethrin	0.000	< 0.100		0.404	0.400	100.9	60.0	120	
Propiconazole	0.000	< 0.200		0.802	0.800	100.3	60.0	120	
Propoxur	0.000	< 0.100		0.404	0.400	101.1	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.484	0.488	99.2	60.0	120	
Pyridaben	0.000	< 0.100		0.403	0.400	100.7	50.0	150	
Spinosad	0.000	< 0.100		0.395	0.388	101.9	50.0	150	
Spiromesifen	0.000	< 0.100		0.400	0.400	100.1	60.0	120	
Spirotetramat	0.000	< 0.100		0.390	0.400	97.5	60.0	120	
Spiroxamine	0.000	< 0.200		0.811	0.800	101.3	60.0	120	
Tebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120	
Thiacloprid	0.000	< 0.100		0.408	0.400	101.9	60.0	120	
Thiamethoxam	0.000	< 0.100		0.392	0.400	98.0	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.421	0.400	105.3	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2310244

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID: 23-009828-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.955	1.077	1.000	12.0%	< 30	95.5%	107.7%	50 - 150	
Acephate	0.000	0.768	0.794	0.800	3.3%	< 30	96.0%	99.2%	50 - 150	
Acequinocyl	0.000	3.700	3.805	4.000	2.8%	< 30	92.5%	95.1%	50 - 150	
Acetamiprid	0.000	0.403	0.405	0.400	0.7%	< 30	100.7%	101.4%	50 - 150	
Aldicarb	0.000	0.761	0.786	0.800	3.2%	< 30	95.1%	98.2%	50 - 150	
Azoxystrobin	0.000	0.406	0.421	0.400	3.5%	< 30	101.6%	105.2%	50 - 150	
Bifenazate	0.000	0.387	0.388	0.400	0.2%	< 30	96.7%	96.9%	50 - 150	
Bifenthrin	0.000	0.372	0.378	0.400	1.4%	< 30	93.1%	94.4%	50 - 150	
Boscalid	0.000	0.756	0.761	0.800	0.6%	< 30	94.5%	95.1%	50 - 150	
Carbaryl	0.000	0.389	0.393	0.400	1.0%	< 30	97.2%	98.2%	50 - 150	
Carbofuran	0.000	0.380	0.395	0.400	3.9%	< 30	95.1%	98.9%	50 - 150	
Chlorantraniliprole	0.000	0.384	0.366	0.400	4.7%	< 30	96.0%	91.6%	50 - 150	
Chlorfenapyr	0.012	2.174	1.884	2.000	14.4%	< 30	108.1%	93.6%	50 - 150	
Chlorpyrifos	0.000	0.372	0.376	0.400	1.2%	< 30	93.0%	94.1%	50 - 150	
Clofentezine	0.000	0.301	0.308	0.400	2.3%	< 30	75.2%	76.9%	50 - 150	
Cyfluthrin	0.000	1.802	1.987	2.000	9.8%	< 30	90.1%	99.4%	30 - 150	
Cypermethrin	0.000	1.847	1.829	2.000	1.0%	< 30	92.4%	91.5%	50 - 150	
Daminozide	0.000	0.732	0.722	2.000	1.4%	< 30	36.6%	36.1%	30 - 150	
Diazinon	0.000	0.362	0.369	0.400	2.1%	< 30	90.4%	92.4%	50 - 150	
Dichlorvos	0.000	1.993	1.997	2.000	0.2%	< 30	99.6%	99.9%	50 - 150	
Dimethoate	0.000	0.393	0.387	0.400	1.5%	< 30	98.3%	96.8%	50 - 150	
Ethoprophos	0.000	0.350	0.399	0.400	13.2%	< 30	87.4%	99.7%	50 - 150	
Etofenprox	0.000	0.770	0.770	0.800	0.0%	< 30	96.2%	96.2%	50 - 150	
Etoxazole	0.000	0.393	0.387	0.400	1.4%	< 30	98.3%	96.9%	50 - 150	
Fenoxycarb	0.000	0.391	0.401	0.400	2.8%	< 30	97.6%	100.4%	50 - 150	
Fenpyroximate	0.000	0.785	0.765	0.800	2.6%	< 30	98.1%	95.6%	50 - 150	
Fipronil	0.000	0.740	0.781	0.800	5.3%	< 30	92.5%	97.6%	50 - 150	
Flonicamid	0.000	0.978	1.008	1.000	3.1%	< 30	97.8%	100.8%	50 - 150	
Fludioxonil	0.000	0.753	0.746	0.800	1.0%	< 30	94.1%	93.2%	50 - 150	
Hexythiazox	0.000	1.038	0.991	1.000	4.6%	< 30	103.8%	99.1%	50 - 150	
Imazalil	0.000	0.389	0.399	0.400	2.3%	< 30	97.4%	99.6%	50 - 150	
Imidacloprid	0.000	0.770	0.778	0.800	1.1%	< 30	96.2%	97.3%	50 - 150	
Kresoxim-methyl	0.000	0.800	0.789	0.800	1.4%	< 30	100.0%	98.7%	50 - 150	
Malathion	0.000	0.407	0.404	0.400	0.7%	< 30	101.7%	101.0%	50 - 150	
Metalaxyl	0.000	0.384	0.398	0.400	3.7%	< 30	95.9%	99.6%	50 - 150	
Methiocarb	0.000	0.372	0.394	0.400	5.8%	< 30	93.0%	98.5%	50 - 150	
Methomyl	0.000	0.748	0.857	0.800	13.7%	< 30	93.4%	107.2%	50 - 150	
MGK-264	0.000	0.375	0.364	0.400	2.9%	< 30	93.8%	91.1%	50 - 150	
Myclobutanil	0.000	0.391	0.395	0.400	0.9%	< 30	97.8%	98.7%	50 - 150	
Naled	0.000	0.933	0.976	1.000	4.5%	< 30	93.3%	97.6%	50 - 150	
Oxamyl	0.000	1.940	2.032	2.000	4.6%	< 30	97.0%	101.6%	50 - 150	
Paclobutrazole	0.000	0.798	0.818	0.800	2.5%	< 30	99.7%	102.2%	50 - 150	
Parathion-Methyl	0.000	0.377	0.401	0.400	6.1%	< 30	94.2%	100.2%	30 - 150	
Permethrin	0.000	0.371	0.382	0.400	2.8%	< 30	92.9%	95.5%	50 - 150	
Phosmet	0.000	0.385	0.394	0.400	2.2%	< 30	96.4%	98.5%	50 - 150	
Piperonyl butoxide	0.000	2.137	2.163	2.000	1.2%	< 30	106.9%	108.2%	50 - 150	
Prallethrin	0.000	0.376	0.371	0.400	1.6%	< 30	94.1%	92.6%	50 - 150	
Propiconazole	0.000	0.779	0.780	0.800	0.1%	< 30	97.4%	97.5%	50 - 150	
Propoxur	0.000	0.393	0.408	0.400	3.7%	< 30	98.3%	102.0%	50 - 150	
Pyrethrin (Summe)	0.001	0.462	0.468	0.488	1.2%	< 30	94.5%	95.6%	50 - 150	
Pyridaben	0.000	0.378	0.389	0.400	2.9%	< 30	94.4%	97.1%	50 - 150	
Spinosad	0.000	0.370	0.374	0.388	1.2%	< 30	95.3%	96.4%	50 - 150	
Spiromesifen	0.000	0.397	0.400	0.400	0.8%	< 30	99.2%	100.0%	50 - 150	
Spirotetramat	0.000	0.379	0.400	0.400	5.4%	< 30	94.8%	100.0%	50 - 150	
Spiroxamine	0.000	0.796	0.807	0.800	1.4%	< 30	99.5%	100.9%	50 - 150	
Tebuconazole	0.000	0.740	0.774	0.800	4.5%	< 30	92.5%	96.8%	50 - 150	
Thiacloprid	0.000	0.388	0.399	0.400	2.8%	< 30	97.0%	99.8%	50 - 150	
Thiamethoxam	0.000	0.399	0.419	0.400	4.8%	< 30	99.8%	104.7%	50 - 150	
Trifloxystrobin	0.000	0.401	0.397	0.400	0.9%	< 30	100.2%	99.3%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2310337

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		470	584	µg/g	80.5	60	-	120	
Isobutane	ND	<	200		698	767	µg/g	91.0	60	-	120	
Butane	ND	<	200		662	782	µg/g	84.7	60	-	120	
2,2-Dimethylpropane	ND	<	200		748	939	µg/g	79.7	60	-	120	
Methanol	ND	<	200		1360	1670	µg/g	81.4	60	-	120	
Ethylene Oxide	ND	<	30		48.8	57.1	µg/g	85.5	60	-	120	
2-Methylbutane	ND	<	200		1350	1680	µg/g	80.4	60	-	120	
Pentane	ND	<	200		1330	1670	µg/g	79.6	60	-	120	
Ethanol	ND	<	200		1270	1660	µg/g	76.5	70	-	130	
Ethyl Ether	ND	<	200		1360	1670	µg/g	81.4	60	-	120	
2,2-Dimethylbutane	ND	<	30		160	189	µg/g	84.7	60	-	120	
Acetone	ND	<	200		1360	1670	µg/g	81.4	60	-	120	
2-Propanol	ND	<	200		1260	1630	µg/g	77.3	60	-	120	
Ethyl Formate	ND	<	500		3930	1600	µg/g	245.6	70	-	130	Q6
Acetonitrile	ND	<	100		393	492	µg/g	79.9	60	-	120	
Methyl Acetate	ND	<	500		1460	1600	µg/g	91.3	70	-	130	
2,3-Dimethylbutane	ND	<	30		146	180	µg/g	81.1	60	-	120	
Dichloromethane	ND	<	60		400	488	µg/g	82.0	60	-	120	
2-Methylpentane	ND	<	30		143	182	µg/g	78.6	60	-	120	
MTBE	ND	<	500		1490	1610	µg/g	92.5	70	-	130	
3-Methylpentane	ND	<	30		145	177	µg/g	81.9	60	-	120	
Hexane	ND	<	30		140	177	µg/g	79.1	60	-	120	
1-Propanol	ND	<	500		1520	1600	µg/g	95.0	70	-	130	
Methylethylketone	ND	<	500		1410	1610	µg/g	87.6	70	-	130	
Ethyl acetate	ND	<	200		1240	1630	µg/g	76.1	60	-	120	
2-Butanol	ND	<	200		1160	1630	µg/g	71.2	60	-	120	
Tetrahydrofuran	ND	<	100		392	488	µg/g	80.3	60	-	120	
Cyclohexane	ND	<	200		1290	1610	µg/g	80.1	60	-	120	
2-methyl-1-propanol	ND	<	500		1590	1610	µg/g	98.8	70	-	130	
Benzene	ND	<	1		3.38	4.79	µg/g	70.6	60	-	120	
Isopropyl Acetate	ND	<	200		1260	1650	µg/g	76.4	60	-	120	
Heptane	ND	<	200		1260	1630	µg/g	77.3	60	-	120	
1-Butanol	ND	<	500		1550	1600	µg/g	96.9	70	-	130	
Propyl Acetate	ND	<	500		1420	1600	µg/g	88.8	70	-	130	
1,4-Dioxane	ND	<	100		400	523	µg/g	76.5	60	-	120	
2-Ethoxyethanol	ND	<	30		128	179	µg/g	71.5	60	-	120	
Methylisobutylketone	ND	<	500		1420	1600	µg/g	88.8	70	-	130	
3-Methyl-1-butanol	ND	<	500		1510	1600	µg/g	94.4	70	-	130	
Ethylene Glycol	ND	<	200		311	506	µg/g	61.5	60	-	120	
Toluene	ND	<	100		391	496	µg/g	78.8	60	-	120	
Isobutyl Acetate	ND	<	500		1410	1610	µg/g	87.6	70	-	130	
1-Pentanol	ND	<	500		1590	1600	µg/g	99.4	70	-	130	
Butyl Acetate	ND	<	500		1400	1610	µg/g	87.0	70	-	130	
Ethylbenzene	ND	<	200		718	978	µg/g	73.4	60	-	120	
m,p-Xylene	ND	<	200		722	994	µg/g	72.6	60	-	120	
o-Xylene	ND	<	200		708	982	µg/g	72.1	60	-	120	
Cumene	ND	<	30		111	171	µg/g	64.9	60	-	120	
Anisole	ND	<	500		1440	1600	µg/g	90.0	70	-	130	
DMSO	ND	<	500		1160	1620	µg/g	71.6	70	-	130	
1,2-dimethoxyethane	ND	<	50		159	186	µg/g	85.5	70	-	130	
Triethylamine	ND	<	500		1390	1600	µg/g	86.9	70	-	130	
N,N-dimethylformamide	ND	<	150		436	480	µg/g	90.8	70	-	130	
N,N-dimethylacetamide	ND	<	150		418	483	µg/g	86.5	70	-	130	
Pyridine	ND	<	50		135	168	µg/g	80.4	70	-	130	
Sulfolane	ND	<	50		153	161	µg/g	95.0	70	-	130	
1,2-Dichloroethane	ND	<	1		0.808	1	µg/g	80.8	70	-	130	
Chloroform	ND	<	1		0.822	1	µg/g	82.2	70	-	130	
Trichloroethylene	ND	<	1		1.18	1	µg/g	118.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.725	1	µg/g	72.5	70	-	130	

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A Tentamus Company

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QC - Sample Duplicate **Sample ID: 23-009704-0001**

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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TerpenesQuality Control Results

Method Reference: EPA5035 — Batch ID: 2310379

	Method Blank				Laboratory Control Sample					
Analyte	Result		LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	<	200		486	500	µg/g	97%	70 - 130	
Camphene	<LOQ	<	200		464	500	µg/g	93%	70 - 130	
Sabinene	<LOQ	<	200		476	500	µg/g	95%	70 - 130	
b-Pinene	<LOQ	<	200		483	500	µg/g	97%	70 - 130	
b-Myrcene	<LOQ	<	200		475	500	µg/g	95%	70 - 130	
a-phelllandrene	<LOQ	<	200		438	500	µg/g	88%	70 - 130	
d-3-Carene	<LOQ	<	200		439	500	µg/g	88%	70 - 130	
a-Terpinene	<LOQ	<	200		514	500	µg/g	103%	70 - 130	
p-Cymene	<LOQ	<	200		479	500	µg/g	96%	70 - 130	
D-Limonene	<LOQ	<	200		504	500	µg/g	101%	70 - 130	
Eucalyptol	<LOQ	<	200		496	500	µg/g	99%	70 - 130	
b-cis-Ocimene	<LOQ	<	67		164	167	µg/g	99%	70 - 130	
b-trans-Ocimene	<LOQ	<	133		327	333	µg/g	98%	70 - 130	
g-Terpinene	<LOQ	<	200		471	500	µg/g	94%	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		514	500	µg/g	103%	70 - 130	
Terpinolene	<LOQ	<	200		512	500	µg/g	102%	70 - 130	
D-Fenchone	<LOQ	<	200		504	500	µg/g	101%	70 - 130	
Linalool	<LOQ	<	200		528	500	µg/g	106%	70 - 130	
Fenchol	<LOQ	<	200		508	500	µg/g	102%	70 - 130	
Camphor	<LOQ	<	200		474	500	µg/g	95%	70 - 130	
Isopulego	<LOQ	<	200		506	500	µg/g	101%	70 - 130	
Isoborneol	<LOQ	<	200		530	500	µg/g	106%	70 - 130	
Borneol	<LOQ	<	200		523	500	µg/g	105%	70 - 130	
DL-Menthol	<LOQ	<	200		561	500	µg/g	112%	70 - 130	
Terpineol	<LOQ	<	200		520	500	µg/g	104%	70 - 130	
Nerol	<LOQ	<	200		471	500	µg/g	94%	70 - 130	
Pulegone	<LOQ	<	200		534	500	µg/g	107%	70 - 130	
Geraniol	<LOQ	<	200		533	500	µg/g	107%	70 - 130	
Geranyl_Acetate	<LOQ	<	200		491	500	µg/g	98%	70 - 130	
a-Cedrene	<LOQ	<	200		515	500	µg/g	103%	70 - 130	
b-Caryophyllene	<LOQ	<	200		505	500	µg/g	101%	70 - 130	
a-Humulene	<LOQ	<	200		518	500	µg/g	104%	70 - 130	
Valencene	<LOQ	<	200		494	500	µg/g	99%	70 - 130	
cis-Nerolidol	<LOQ	<	200		541	500	µg/g	108%	70 - 130	
a-Farnesene	<LOQ	<	200		590	500	µg/g	118%	70 - 130	
trans-Nerolidol	<LOQ	<	200		547	500	µg/g	109%	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		516	500	µg/g	103%	70 - 130	
Guaiol	<LOQ	<	200		519	500	µg/g	104%	70 - 130	
Cedrol	<LOQ	<	200		534	500	µg/g	107%	70 - 130	
a-Bisabolol	<LOQ	<	200		516	500	µg/g	103%	70 - 130	

Definitions

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

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TerpenesQuality Control Results

Method Reference: EPA5035 — Batch ID: 2310379

Sample/ Sample Duplicate — Sample ID: 23-009704-0001

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	192	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-phelllandrene	<LOQ	<LOQ	192	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	192	µg/g	0%	< 20	
D-Limonene	278	275	192	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	64.1	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	128	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	192	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	192	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	192	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	192	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	192	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	192	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	192	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	192	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	192	µg/g	0%	< 20	
Gereniol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	192	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	192	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	192	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	192	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	192	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	192	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	192	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	192	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.