

## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

<b>BULK SKU</b>	<b>BATCH #</b>	<b>LOQ: Limit Of Quantitation</b>	
<b>PRODUCT NAME</b>	<b>SERVING SIZE</b>	<b>LOD: Limit Of Detection</b>	
<b>LABORATORY :</b>	<b>OREGON ACCREDITATION: OR100028</b>	1 g = 10 <sup>-3</sup> kg = 10 <sup>3</sup> mg = 10 <sup>6</sup> µg 1 mg/kg = 1 ppm = 1000 ppb	
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day <sup>[1]</sup>
Cadmium	µg/serving	µg/g	4.1 µg/day <sup>[1]</sup>
Lead	µg/serving	µg/g	6 µg/day <sup>[1]</sup>
Mercury	µg/serving	µg/g	2 µg/day <sup>[1]</sup>
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb <sup>[1]</sup>
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol	µg/g	50,000 mg/day	
Heptane	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		
Water Activity	Pass		
TERPENES	% OF SAMPLE		
Farnesene	%		
β-Caryophyllene	%		
α-Bisabolol	%		
Guaiol	%		
Humulene	%		
Caryophyllene Oxide	%		



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



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



**Report Number:** 23-009990/D004.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2606808  
**Received:** 08/22/23 16:37

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-TN.O.CBGCBD.FS50-FH74  
**Client/Metric ID:** .  
**Laboratory ID:** 23-009990-0001

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	2.44		mg/1g		CBD-Total per Serving Size 28.8 mg/1g
CBD per 1g	28.8		mg/1g		
CBDV per 1g	0.337		mg/1g		THC-Total per Serving Size 1.07 mg/1g
CBE per 1g	0.450		mg/1g		(Reported in milligrams per serving)
CBG per 1g	29.6		mg/1g		
CBL per 1g	0.217		mg/1g		
CBN per 1g	0.0519		mg/1g		
CBT per 1g	1.06		mg/1g		
Δ9-THC per 1g	1.07		mg/1g		

**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
β-Caryophyllene	0.0599	33.46%	(-)-caryophyllene oxide	0.0436	24.36%
(-)-Guaiol	0.0324	18.10%	Humulene	0.0233	13.02%
α-Bisabolol	0.0202	11.28%	<b>Total Terpenes</b>	<b>0.179</b>	<b>100.00%</b>

**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.



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**Customer:** Etz Hayim Holdings  
 16427 NE Airport Way  
 PORTLAND 97230  
 United States of America (USA)  
**Product identity:** FORM-TN.O.CBGCBBD.FS50-FH74  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-009990-0001  
**Evidence of Cooling:** No  
**Temp:** 22.3 °C  
**Serving Size #1:** 1 g

### Sample Results

Potency per 1g		Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2310408	Analyze: 8/26/23 1:39:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	2.44		mg/1g	0.0328	
CBC-A per 1g	< LOQ		mg/1g	0.0328	
CBC-Total per 1g	2.44		mg/1g	0.0616	
CBD per 1g	28.8		mg/1g	0.328	
CBD-A per 1g	< LOQ		mg/1g	0.0328	
CBD-Total per 1g	28.8		mg/1g	0.357	
CBDV per 1g	0.337		mg/1g	0.0328	
CBDV-A per 1g	< LOQ		mg/1g	0.0328	
CBDV-Total per 1g	0.337		mg/1g	0.0612	
CBE per 1g	0.450		mg/1g	0.0328	
CBG per 1g	29.6		mg/1g	0.328	
CBG-A per 1g	< LOQ		mg/1g	0.0328	
CBG-Total per 1g	29.6		mg/1g	0.357	
CBL per 1g	0.217		mg/1g	0.0328	
CBL-A per 1g	< LOQ		mg/1g	0.0328	
CBL-Total per 1g	0.217		mg/1g	0.0616	
CBN per 1g	0.0519		mg/1g	0.0328	
CBT per 1g	1.06		mg/1g	0.0328	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0328	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0328	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0328	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0656	
Δ8-THC per 1g	< LOQ		mg/1g	0.0328	
Δ9-THC per 1g	1.07		mg/1g	0.0328	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0328	
exo-THC per 1g	< LOQ		mg/1g	0.0328	
THC-A per 1g	< LOQ		mg/1g	0.0328	
THC-Total per 1g	1.07		mg/1g	0.0616	
THCV per 1g	< LOQ		mg/1g	0.0328	
THCV-A per 1g	< LOQ		mg/1g	0.0328	
THCV-Total per 1g	< LOQ		mg/1g	0.0616	



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Potency per 1g	Method: J AOAC 2015 V98-6 (mod) <sup>P</sup>	Units mg/se	Batch: 2310408	Analyze: 8/26/23	1:39:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	64.0		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310543	09/03/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2310543	09/03/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310544	09/03/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310544	09/03/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

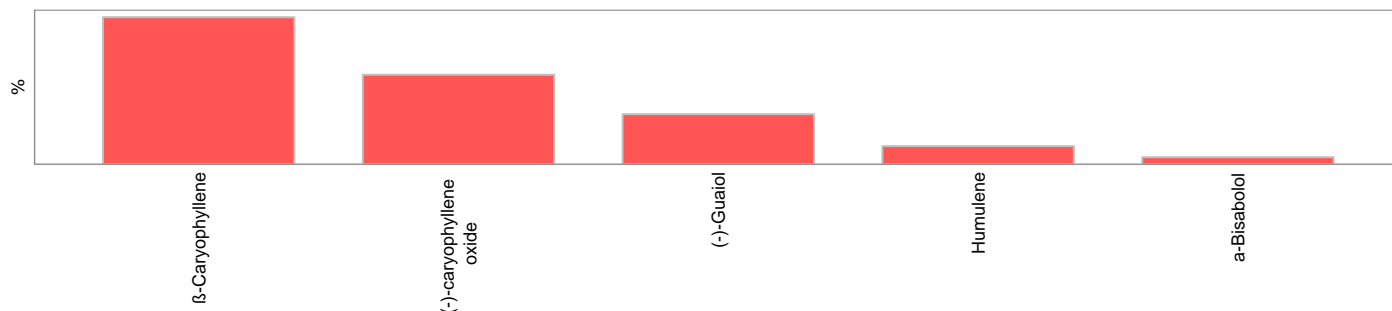
Solvents	Method: Residual Solvents by GC/MS <sup>P</sup>	Units µg/g	Batch 2310644	Analyze 09/06/23	10:31 AM						
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-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							



Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>											
Units mg/kg Batch 2310619 Analyze 09/05/23 01:24 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin <sup>‡</sup>	< LOQ	0.50	0.250	pass		Acephate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Acequinocyl <sup>‡</sup>	< LOQ	2.0	1.00	pass		Acetamiprid <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Aldicarb <sup>‡</sup>	< LOQ	0.40	0.200	pass		Azoxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Bifentazate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Bifenthrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Boscalid <sup>‡</sup>	< LOQ	0.40	0.200	pass		Carbaryl <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Carbofuran <sup>‡</sup>	< LOQ	0.20	0.100	pass		Chlorantraniliprole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Chlorfenapyr <sup>‡</sup>	< LOQ	1.0	0.500	pass		Chlorpyrifos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Clofentezine <sup>‡</sup>	< LOQ	0.20	0.100	pass		Cyfluthrin <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Cypermethrin <sup>‡</sup>	< LOQ	1.0	0.500	pass		Daminozide <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Diazinon <sup>‡</sup>	< LOQ	0.20	0.100	pass		Dichlorvos <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Dimethoate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Ethoprophos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Etofenprox <sup>‡</sup>	< LOQ	0.40	0.200	pass		Etoazole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Fenoxycarb <sup>‡</sup>	< LOQ	0.20	0.100	pass		Fenpyroximate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Fipronil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Fonicamid <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Fludioxonil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Hexythiazox <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Imazalil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Imidacloprid <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Kresoxim-methyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		Malathion <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Metalaxyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Methiocarb <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Methomyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		MGK-264 <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Myclobutanil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Naled <sup>‡</sup>	< LOQ	0.50	0.250	pass	
Oxamyl <sup>‡</sup>	< LOQ	1.0	0.500	pass		Paclotbutrazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Parathion-Methyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Permethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Phosmet <sup>‡</sup>	< LOQ	0.20	0.100	pass		Piperonyl butoxide <sup>‡</sup>	< LOQ	2.0	1.00	pass	
Prallethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass		Propiconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Propoxur <sup>‡</sup>	< LOQ	0.20	0.100	pass		Pyrethrin I (total) <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Pyridaben <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spinosad <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiromesifen <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spirotetramat <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiroxamine <sup>‡</sup>	< LOQ	0.40	0.200	pass		Tebuconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Thiacloprid <sup>‡</sup>	< LOQ	0.20	0.100	pass		Thiamethoxam <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Trifloxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass							



Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2310728	Analyze 09/08/23 05:39 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene	0.0599	0.019	33.4637%		(-)-caryophyllene oxide	0.0436	0.019	24.3575%	
(-)-Guaiol	0.0324	0.019	18.1006%		Humulene	0.0233	0.019	13.0168%	
α-Bisabolol	0.0202	0.019	11.2849%		farnesene	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		β-Myrcene	< LOQ	0.019	0.00%	
(+)-Cedrol	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
(-)-β-Pinene	< LOQ	0.019	0.00%		α-Terpinene	< LOQ	0.019	0.00%	
Terpinolene	< LOQ	0.019	0.00%		(R)-(+)-Limonene	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
Linalool	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%	
nerol	< LOQ	0.019	0.00%		p-Cymene	< LOQ	0.019	0.00%	
(+)-Pulegone	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%	
(±)-Camphor	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%	
Isoborneol	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		(-)-α-Terpineol	< LOQ	0.019	0.00%	
(-)-Isopulegol	< LOQ	0.019	0.00%		α-cedrene	< LOQ	0.019	0.00%	
α-phellandrene	< LOQ	0.019	0.00%		α-pinene	< LOQ	0.019	0.00%	
Camphene	< LOQ	0.019	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
d-3-Carene	< LOQ	0.019	0.00%		γ-Terpinene	< LOQ	0.019	0.00%	
Menthol	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%	
Sabinene hydrate	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.013	0.00%	
<b>Total Terpenes</b>	<b>0.179</b>								



Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0652	2310661	09/06/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0652	2310661	09/06/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0652	2310661	09/06/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.0326	2310661	09/06/23 AOAC 2013.06 (mod.) <sup>p</sup>	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.

Ⓟ = 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



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8/23/23, 9:50 AM

Columbia Laboratories: ECOC

<https://submissions.us.tentamus.com/cannabis/Lazarus-Naturals-1692743367>

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2310408

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0310	0.0309	%	100	80.0	- 120	Acceptable	
CBDV	2	0.0315	0.0313	%	101	80.0	- 120	Acceptable	
CBE	2	0.0327	0.0329	%	99.1	80.0	- 120	Acceptable	
CBDA	1	0.0334	0.0338	%	98.7	90.0	- 110	Acceptable	
CBGA	1	0.0342	0.0343	%	99.8	80.0	- 120	Acceptable	
CBG	1	0.0361	0.0363	%	99.4	80.0	- 120	Acceptable	
CBD	1	0.0349	0.0351	%	99.4	90.0	- 110	Acceptable	
THCV	2	0.0201	0.0200	%	101	80.0	- 120	Acceptable	
d8THCV	2	0.0275	0.0276	%	99.7	80.0	- 120	Acceptable	
THCVA	2	0.0307	0.0307	%	100	80.0	- 120	Acceptable	
CBN	1	0.0344	0.0343	%	100	80.0	- 120	Acceptable	
exo-THC	2	0.0301	0.0302	%	99.6	80.0	- 120	Acceptable	
d9THC	1	0.0358	0.0355	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0367	0.0364	%	101	90.0	- 110	Acceptable	
9S-d10THC	1	0.0357	0.0354	%	101	80.0	- 120	Acceptable	
CBL	2	0.0320	0.0311	%	103	80.0	- 120	Acceptable	
9R-d10THC	1	0.0113	0.0115	%	98.0	80.0	- 120	Acceptable	
CB	2	0.0332	0.0335	%	99.1	80.0	- 120	Acceptable	
THCA	1	0.0343	0.0344	%	99.8	90.0	- 110	Acceptable	
CBCA	2	0.0320	0.0319	%	100	80.0	- 120	Acceptable	
CBLA	2	0.0650	0.0647	%	101	80.0	- 120	Acceptable	
d9THCP	2	0.0311	0.0316	%	98.3	80.0	- 120	Acceptable	
CBT	2	0.0312	0.0308	%	101	80.0	- 120	Acceptable	

Method Blank							
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBDV	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBE	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBDA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBGA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBG	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBD	<LOQ	0.00330	%	< 0.00330		Acceptable	
THCV	<LOQ	0.00330	%	< 0.00330		Acceptable	
d8THCV	<LOQ	0.00330	%	< 0.00330		Acceptable	
THCVA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBN	<LOQ	0.00330	%	< 0.00330		Acceptable	
exo-THC	<LOQ	0.00330	%	< 0.00330		Acceptable	
d9THC	<LOQ	0.00330	%	< 0.00330		Acceptable	
d8THC	<LOQ	0.00330	%	< 0.00330		Acceptable	
9S-d10THC	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBL	<LOQ	0.00330	%	< 0.00330		Acceptable	
9R-d10THC	<LOQ	0.00330	%	< 0.00330		Acceptable	
CB	<LOQ	0.00330	%	< 0.00330		Acceptable	
THCA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBCA	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBLA	<LOQ	0.00330	%	< 0.00330		Acceptable	
d9THCP	<LOQ	0.00330	%	< 0.00330		Acceptable	
CBT	<LOQ	0.00330	%	< 0.00330		Acceptable	

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

**Units of Measure:**  
 % - Percent



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



**Report Number:** 23-009990/D004.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2606808  
**Received:** 08/22/23 16:37

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2310408						
Sample Duplicate		Sample ID: 23-0099510002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBDV	0.0300	0.0300	0.00328	%	0.0581	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBD	0.0945	0.0941	0.00328	%	0.449	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBG	0.138	0.137	0.00328	%	0.259	< 20	Acceptable	
CBD	9.76	10.0	0.00328	%	2.59	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBN	0.00653	0.00659	0.00328	%	0.976	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THC	0.229	0.229	0.00328	%	0.0408	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBL	0.0123	0.0130	0.00328	%	5.84	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBC	0.276	0.276	0.00328	%	0.0349	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBT	0.0372	0.0360	0.00328	%	3.43	< 20	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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**Report Number:** 23-009990/D004.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2606808  
**Received:** 08/22/23 16:37

Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2310619			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.022	1.000	102.2	50.0	150
Acephate	0.000	< 0.200		0.769	0.800	96.1	60.0	120
Acequinocyl	0.000	< 1.000		3.988	4.000	99.7	40.0	160
Acetamiprid	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Aldicarb	0.000	< 0.200		0.823	0.800	102.8	60.0	120
Azoxystrobin	0.000	< 0.100		0.402	0.400	100.5	60.0	120
Bifenazate	0.000	< 0.100		0.393	0.400	98.3	60.0	120
Bifenthrin	0.000	< 0.100		0.392	0.400	98.1	50.0	150
Boscalid	0.000	< 0.200		0.790	0.800	98.7	60.0	120
Carbaryl	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Carbofuran	0.000	< 0.100		0.412	0.400	103.0	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.385	0.400	96.2	60.0	120
Chlorfenapyr	0.000	< 0.500		1.546	2.000	77.3	60.0	120
Chlorpyrifos	0.004	< 0.100		0.388	0.400	97.0	60.0	120
Clofentazine	0.000	< 0.100		0.364	0.400	91.0	60.0	120
Cyfluthrin	0.000	< 0.500		1.974	2.000	98.7	50.0	150
Cypermethrin	0.000	< 0.500		1.980	2.000	99.0	50.0	150
Daminozide	0.012	< 0.500		0.784	2.000	39.2	60.0	120
Diazinon	0.000	< 0.100		0.429	0.400	107.3	60.0	120
Dichlorvos	0.000	< 0.500		2.034	2.000	101.7	60.0	120
Dimethoate	0.000	< 0.100		0.405	0.400	101.3	60.0	120
Ethoprophos	0.000	< 0.100		0.405	0.400	101.3	60.0	120
Etofenprox	0.000	< 0.200		0.821	0.800	102.6	50.0	150
Etoxazole	0.000	< 0.100		0.429	0.400	107.3	60.0	120
Fenoxycarb	0.000	< 0.100		0.407	0.400	101.8	60.0	120
Fenpyroximate	0.000	< 0.200		0.816	0.800	102.0	60.0	120
Fipronil	0.000	< 0.200		0.796	0.800	99.5	60.0	120
Fonicamid	0.000	< 0.250		1.000	1.000	100.0	60.0	120
Fludioxonil	0.000	< 0.200		0.768	0.800	96.0	50.0	150
Hexythiazox	0.000	< 0.250		1.002	1.000	100.2	60.0	120
Imazalil	0.000	< 0.100		0.387	0.400	96.6	60.0	120
Imidacloprid	0.000	< 0.200		0.814	0.800	101.8	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.782	0.800	97.7	60.0	120
Malathion	0.000	< 0.100		0.400	0.400	99.9	60.0	120
Metaxalyl	0.000	< 0.100		0.405	0.400	101.2	60.0	120
Methiocarb	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Methomyl	0.000	< 0.200		0.797	0.800	99.6	60.0	120
MGK-264	0.000	< 0.100		0.392	0.400	97.9	50.0	150
Myclobutanil	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Naled	0.000	< 0.250		0.993	1.000	99.3	50.0	150
Oxamyl	0.000	< 0.500		2.031	2.000	101.6	60.0	120
Pacllobutrazole	0.000	< 0.200		0.823	0.800	102.9	60.0	120
Parathion-Methyl	0.002	< 0.100		0.428	0.400	107.0	50.0	150
Permethrin	0.000	< 0.100		0.394	0.400	98.5	50.0	150
Phosmet	0.000	< 0.100		0.400	0.400	99.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.174	2.000	108.7	60.0	120
Prallethrin	0.000	< 0.100		0.391	0.400	97.8	60.0	120
Propiconazole	0.000	< 0.200		0.774	0.800	96.8	60.0	120
Propoxur	0.000	< 0.100		0.410	0.400	102.6	60.0	120
Pyrethrin (Summe)	0.002	< 0.100		0.493	0.488	101.0	60.0	120
Pyridaben	0.000	< 0.100		0.409	0.400	102.3	50.0	150
Spirosad	0.000	< 0.100		0.408	0.388	105.1	50.0	150
Spiromesifen	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Spirotetramat	0.000	< 0.100		0.397	0.400	99.4	60.0	120
Spiroxamine	0.000	< 0.200		0.820	0.800	102.5	60.0	120
Tebuconazole	0.000	< 0.200		0.812	0.800	101.6	60.0	120
Thiacloprid	0.000	< 0.100		0.400	0.400	100.0	60.0	120
Thiamethoxam	0.000	< 0.100		0.403	0.400	100.8	60.0	120
Trifloxystrobin	0.000	< 0.100		0.409	0.400	102.2	60.0	120

Q6



12423 NE Whitaker Way  
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 Report Date: 09/09/2023  
 ORELAP#: OR100028  
 Purchase Order: 2606808  
 Received: 08/22/23 16:37

Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2310619				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 23-010390-0001								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.034	1.013	1.000	2.0%	< 30	103.4%	101.3%	50 - 150	
Acephate	0.000	0.721	0.730	0.800	1.3%	< 30	90.1%	91.3%	50 - 150	
Acequinocyl	0.000	4.087	4.433	4.000	8.1%	< 30	102.2%	110.8%	50 - 150	
Acetamiprid	0.000	0.396	0.411	0.400	3.7%	< 30	99.0%	102.7%	50 - 150	
Aldicarb	0.000	0.815	0.808	0.800	0.9%	< 30	101.9%	101.0%	50 - 150	
Azoxystrobin	0.000	0.395	0.400	0.400	1.2%	< 30	98.8%	99.9%	50 - 150	
Bifenazate	0.000	0.382	0.406	0.400	6.1%	< 30	95.5%	101.5%	50 - 150	
Bifenthrin	0.000	0.389	0.378	0.400	2.8%	< 30	97.2%	94.5%	50 - 150	
Boscalid	0.000	0.763	0.817	0.800	6.8%	< 30	95.3%	102.1%	50 - 150	
Carbaryl	0.000	0.384	0.403	0.400	4.8%	< 30	95.9%	100.6%	50 - 150	
Carbofuran	0.000	0.389	0.396	0.400	1.8%	< 30	97.2%	99.0%	50 - 150	
Chlorantraniliprole	0.000	0.406	0.386	0.400	4.9%	< 30	101.4%	96.6%	50 - 150	
Chlorfenapyr	0.000	1.554	1.568	2.000	0.8%	< 30	77.7%	78.4%	50 - 150	
Chlorpyrifos	0.000	0.367	0.371	0.400	1.1%	< 30	91.8%	92.8%	50 - 150	
Clofentazine	0.000	0.332	0.339	0.400	2.2%	< 30	82.9%	84.7%	50 - 150	
Cyfluthrin	0.000	1.950	2.006	2.000	2.8%	< 30	97.5%	100.3%	30 - 150	
Cypermethrin	0.000	1.867	1.992	2.000	6.5%	< 30	93.3%	99.6%	50 - 150	
Daminozide	0.010	0.752	0.763	2.000	1.5%	< 30	37.1%	37.7%	30 - 150	
Diazinon	0.000	0.404	0.426	0.400	5.2%	< 30	101.0%	106.4%	50 - 150	
Dichlorvos	0.000	1.906	1.959	2.000	2.7%	< 30	95.3%	98.0%	50 - 150	
Dimethoate	0.000	0.397	0.407	0.400	2.5%	< 30	99.3%	101.7%	50 - 150	
Ethoprophos	0.000	0.386	0.398	0.400	3.1%	< 30	96.4%	99.5%	50 - 150	
Etofenprox	0.000	0.801	0.816	0.800	1.9%	< 30	100.1%	102.0%	50 - 150	
Etoxazole	0.000	0.452	0.453	0.400	0.2%	< 30	112.9%	113.2%	50 - 150	
Fenoxycarb	0.000	0.394	0.388	0.400	1.6%	< 30	98.6%	97.0%	50 - 150	
Fenpyroximate	0.000	0.779	0.804	0.800	3.1%	< 30	97.4%	100.5%	50 - 150	
Fipronil	0.000	0.787	0.780	0.800	0.9%	< 30	98.4%	97.5%	50 - 150	
Fonicamid	0.000	0.956	1.014	1.000	5.9%	< 30	95.6%	101.4%	50 - 150	
Fludioxonil	0.000	0.751	0.767	0.800	2.2%	< 30	93.8%	95.9%	50 - 150	
Hexythiazox	0.000	1.195	1.036	1.000	14.3%	< 30	119.5%	103.6%	50 - 150	
Imazalil	0.000	0.394	0.380	0.400	3.6%	< 30	98.4%	95.0%	50 - 150	
Imidacloprid	0.000	0.769	0.774	0.800	0.6%	< 30	96.2%	96.7%	50 - 150	
Kresoxim-methyl	0.000	0.733	0.750	0.800	2.4%	< 30	91.6%	93.8%	50 - 150	
Malathion	0.000	0.387	0.406	0.400	4.8%	< 30	96.6%	101.4%	50 - 150	
Metaxalaxyl	0.000	0.397	0.397	0.400	0.1%	< 30	99.2%	99.3%	50 - 150	
Methiocarb	0.000	0.404	0.394	0.400	2.7%	< 30	101.1%	98.4%	50 - 150	
Methomyl	0.000	0.780	0.833	0.800	6.6%	< 30	97.5%	104.1%	50 - 150	
MGK-264	0.000	0.370	0.410	0.400	10.2%	< 30	92.6%	102.5%	50 - 150	
Myclobutanil	0.000	0.374	0.374	0.400	0.1%	< 30	93.5%	93.6%	50 - 150	
Naled	0.000	0.987	0.931	1.000	5.8%	< 30	98.7%	93.1%	50 - 150	
Oxamyl	0.000	1.949	1.937	2.000	0.6%	< 30	97.4%	96.8%	50 - 150	
Pacllobutrazole	0.000	0.843	0.827	0.800	2.0%	< 30	105.4%	103.3%	50 - 150	
Parathion-Methyl	0.000	0.433	0.400	0.400	7.9%	< 30	108.3%	100.0%	30 - 150	
Permethrin	0.000	0.359	0.390	0.400	8.2%	< 30	89.8%	97.4%	50 - 150	
Phosmet	0.000	0.385	0.420	0.400	8.7%	< 30	96.3%	105.1%	50 - 150	
Piperonyl butoxide	0.000	2.012	2.133	2.000	5.8%	< 30	100.6%	106.6%	50 - 150	
Prallethrin	0.000	0.388	0.378	0.400	2.6%	< 30	96.9%	94.5%	50 - 150	
Propiconazole	0.000	0.762	0.778	0.800	2.0%	< 30	95.3%	97.2%	50 - 150	
Propoxur	0.000	0.388	0.398	0.400	2.7%	< 30	96.9%	99.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.466	0.481	0.488	3.2%	< 30	95.5%	98.6%	50 - 150	
Pyridaben	0.000	0.401	0.410	0.400	2.4%	< 30	100.1%	102.6%	50 - 150	
Spinosad	0.000	0.392	0.411	0.388	4.8%	< 30	100.9%	105.9%	50 - 150	
Spiromesifen	0.000	0.395	0.386	0.400	2.2%	< 30	98.8%	96.6%	50 - 150	
Spirotetramat	0.000	0.391	0.397	0.400	1.5%	< 30	97.7%	99.2%	50 - 150	
Spiroxamine	0.000	0.791	0.804	0.800	1.6%	< 30	98.9%	100.5%	50 - 150	
Tebuconazole	0.000	0.767	0.772	0.800	0.6%	< 30	95.9%	96.5%	50 - 150	
Thiacloprid	0.000	0.383	0.387	0.400	1.1%	< 30	95.8%	96.8%	50 - 150	
Thiamethoxam	0.000	0.380	0.416	0.400	9.0%	< 30	95.0%	104.0%	50 - 150	
Trifloxystrobin	0.000	0.397	0.416	0.400	4.7%	< 30	99.2%	104.0%	50 - 150	



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310644					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		541	584	µg/g	92.6	60 - 120	
Isobutane	ND	< 200		715	767	µg/g	93.2	60 - 120	
Butane	ND	< 200		743	782	µg/g	95.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		913	939	µg/g	97.2	60 - 120	
Methanol	ND	< 200		1640	1670	µg/g	98.2	60 - 120	
Ethylene Oxide	ND	< 30		58.3	57.1	µg/g	102.1	60 - 120	
2-Methylbutane	ND	< 200		1520	1680	µg/g	90.5	60 - 120	
Pentane	ND	< 200		1530	1670	µg/g	91.6	60 - 120	
Ethanol	ND	< 200		1640	1660	µg/g	98.8	70 - 130	
Ethyl Ether	ND	< 200		1570	1670	µg/g	94.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		174	189	µg/g	92.1	60 - 120	
Acetone	ND	< 200		1630	1670	µg/g	97.6	60 - 120	
2-Propanol	ND	< 200		1630	1630	µg/g	100.0	60 - 120	
Ethyl Formate	ND	< 500		1520	1600	µg/g	95.0	70 - 130	
Acetonitrile	ND	< 100		478	492	µg/g	97.2	60 - 120	
Methyl Acetate	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		174	180	µg/g	96.7	60 - 120	
Dichloromethane	ND	< 60		477	488	µg/g	97.7	60 - 120	
2-Methylpentane	ND	< 30		170	182	µg/g	93.4	60 - 120	
MTBE	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
3-Methylpentane	ND	< 30		166	177	µg/g	93.8	60 - 120	
Hexane	ND	< 30		170	177	µg/g	96.0	60 - 120	
1-Propanol	ND	< 500		1610	1600	µg/g	100.6	70 - 130	
Methylethylketone	ND	< 500		1650	1610	µg/g	102.5	70 - 130	
Ethyl acetate	ND	< 200		1610	1630	µg/g	98.8	60 - 120	
2-Butanol	ND	< 200		1650	1630	µg/g	101.2	60 - 120	
Tetrahydrofuran	ND	< 100		491	488	µg/g	100.6	60 - 120	
Cyclohexane	ND	< 200		1580	1610	µg/g	98.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
Benzene	ND	< 1		4.99	4.79	µg/g	104.2	60 - 120	
Isopropyl Acetate	ND	< 200		1680	1650	µg/g	101.8	60 - 120	
Heptane	ND	< 200		1630	1630	µg/g	100.0	60 - 120	
1-Butanol	ND	< 500		1540	1600	µg/g	96.3	70 - 130	
Propyl Acetate	ND	< 500		1630	1600	µg/g	101.9	70 - 130	
1,4-Dioxane	ND	< 100		506	523	µg/g	96.7	60 - 120	
2-Ethoxyethanol	ND	< 30		195	179	µg/g	108.9	60 - 120	
Methylisobutylketone	ND	< 500		1630	1600	µg/g	101.9	70 - 130	
3-Methyl-1-butanol	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
Ethylene Glycol	ND	< 200		283	506	µg/g	55.9	60 - 120	Q6
Toluene	ND	< 100		521	496	µg/g	105.0	60 - 120	
Isobutyl Acetate	ND	< 500		1710	1610	µg/g	106.2	70 - 130	
1-Pentanol	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
Butyl Acetate	ND	< 500		1650	1610	µg/g	102.5	70 - 130	
Ethylbenzene	ND	< 200		1000	978	µg/g	102.2	60 - 120	
m,p-Xylene	ND	< 200		1040	994	µg/g	104.6	60 - 120	
o-Xylene	ND	< 200		1010	982	µg/g	102.9	60 - 120	
Cumene	ND	< 30		151	171	µg/g	88.3	60 - 120	
Anisole	ND	< 500		1670	1600	µg/g	104.4	70 - 130	
DMSO	ND	< 500		1730	1620	µg/g	106.8	70 - 130	
1,2-dimethoxyethane	ND	< 50		184	185	µg/g	98.9	70 - 130	
Triethylamine	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
N,N-dimethylformamide	ND	< 150		533	480	µg/g	111.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		481	483	µg/g	99.6	70 - 130	
Pyridine	ND	< 50		172	168	µg/g	102.4	70 - 130	
Sulfone	ND	< 50		139	161	µg/g	86.3	70 - 130	
1,2-Dichloroethane	ND	< 1		1.06	1	µg/g	106.0	70 - 130	
Chloroform	ND	< 1		1.05	1	µg/g	105.0	70 - 130	
Trichloroethylene	ND	< 1		1.02	1	µg/g	102.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.02	1	µg/g	102.0	70 - 130	



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**Report Number:** 23-009990/D004.R000  
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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

QC - Sample Duplicate		Sample ID: 23-010144-0001						
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	
Methyl ethyl ketone	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  
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

**Units of Measure:**

µg/g- Microgram per gram or ppm


 Revision: 1 Document ID: 7086  
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

## Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2310728					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		422	500	µg/g	84%	70 - 130	
Camphene	<LOQ	< 200		517	500	µg/g	103%	70 - 130	
Sabinene	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
b-Pinene	<LOQ	< 200		417	500	µg/g	83%	70 - 130	
b-Myrcene	<LOQ	< 200		544	500	µg/g	109%	70 - 130	
a-phellandrene	<LOQ	< 200		555	500	µg/g	111%	70 - 130	
d-3-Carene	<LOQ	< 200		530	500	µg/g	106%	70 - 130	
a-Terpinene	<LOQ	< 200		435	500	µg/g	87%	70 - 130	
p-Cymene	<LOQ	< 200		538	500	µg/g	108%	70 - 130	
D-Limonene	<LOQ	< 200		448	500	µg/g	90%	70 - 130	
Eucalyptol	<LOQ	< 200		552	500	µg/g	110%	70 - 130	
b-cis-Cimene	<LOQ	< 67		186	167	µg/g	111%	70 - 130	
b-trans-Cimene	<LOQ	< 133		375	333	µg/g	113%	70 - 130	
g-Terpinene	<LOQ	< 200		450	500	µg/g	90%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
Terpinolene	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
D-Fenchone	<LOQ	< 200		426	500	µg/g	85%	70 - 130	
Linalool	<LOQ	< 200		642	500	µg/g	128%	70 - 130	
Fenchol	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
Camphor	<LOQ	< 200		557	500	µg/g	111%	70 - 130	
Isopulego	<LOQ	< 200		591	500	µg/g	118%	70 - 130	
Isoborneol	<LOQ	< 200		592	500	µg/g	118%	70 - 130	
Borneol	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
DL-Menthol	<LOQ	< 200		620	500	µg/g	124%	70 - 130	
Terpineol	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
Nerd	<LOQ	< 200		564	500	µg/g	113%	70 - 130	
Pulegone	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
Geraniol	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		571	500	µg/g	114%	70 - 130	
a-Cedrene	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
b-Caryophyllene	<LOQ	< 200		570	500	µg/g	114%	70 - 130	
a-Humulene	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
Valene	<LOQ	< 200		543	500	µg/g	109%	70 - 130	
cis-Nerolidol	<LOQ	< 200		613	500	µg/g	123%	70 - 130	
a-Farnesene	<LOQ	< 200		640	500	µg/g	128%	70 - 130	
trans-Nerolidol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		585	500	µg/g	117%	70 - 130	
Guaiol	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
Cedrol	<LOQ	< 200		625	500	µg/g	125%	70 - 130	
a-Bisabolol	<LOQ	< 200		626	500	µg/g	125%	70 - 130	

## Definitions

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



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**Report Number:** 23-009990/D004.R000  
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**Purchase Order:** 2606808  
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 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2310728					
Sample/ Sample Duplicate		Sample ID: 23-009990-001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	194	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	194	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-cis-Cimene	<LOQ	<LOQ	64.8	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	130	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	194	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	194	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	194	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	194	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	194	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	194	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	194	µg/g	0%	< 20	
DL-Menthhol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	194	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	194	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-Caryophyllene	594	599	194	µg/g	1%	< 20	
a-Humulene	229	233	194	µg/g	2%	< 20	
Valnene	<LOQ	<LOQ	194	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	194	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Caryophyllene Oxide	432	436	194	µg/g	1%	< 20	
Guaiol	318	324	194	µg/g	2%	< 20	
Cedrol	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Bisabolol	200	202	194	µg/g	1%	< 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	Quantitation 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.