

## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

<b>BULK SKU</b> TN.ISO.FL50	<b>BATCH #</b> EK48	<b>LOQ:</b> Limit Of Quantitation <b>LOD:</b> Limit Of Detection  1 g = 10 <sup>-3</sup> kg = 10 <sup>3</sup> mg = 10 <sup>6</sup> µg 1 mg/kg = 1 ppm = 1000 ppb
<b>PRODUCT NAME</b> Flavorless CBD Tincture	<b>SERVING SIZE</b> 1 mL	
<b>LABORATORY:</b> Columbia Laboratories	<b>OREGON ACCREDITATION:</b> OR100028	

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	51.27 mg/serving	54.2 mg/g	5.42 %
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 <sup>[1]</sup>
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day <sup>[1]</sup>
Lead	<LOQ µg/serving	<LOQ µg/g	6 µg/day <sup>[1]</sup>
Mercury	<LOQ µg/serving	<LOQ 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	<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.



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



**Report Number:** 22-015302/D003.R000  
**Report Date:** 01/06/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/14/22 15:48

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-TN.ISO.FL50-EK48  
**Client/Metric ID:** .  
**Laboratory ID:** 22-015302-0001

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	54.2		mg/1g		CBD-Total per Serving Size 54.2 mg/1g
CBDV per 1g	0.234		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.*



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**Report Date:** 01/06/2023  
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**Purchase Order:**  
**Received:** 12/14/22 15:48

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

**Product identity:** FORM-TN.ISO.FL50-EK48

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 22-015302-0001

**Evidence of Cooling:** No

**Temp:** 19.4 °C

**Relinquished by:** Client

**Serving Size #1:** 1 g

### Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2210738	Analyze: 12/17/22 8:32:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0325	
CBC-A per 1g	< LOQ		mg/1g	0.0325	
CBC-Total per 1g	< LOQ		mg/1g	0.0610	
CBD per 1g	54.2		mg/1g	0.325	
CBD-A per 1g	< LOQ		mg/1g	0.0325	
CBD-Total per 1g	54.2		mg/1g	0.354	
CBDV per 1g	0.234		mg/1g	0.0325	
CBDV-A per 1g	< LOQ		mg/1g	0.0325	
CBDV-Total per 1g	0.234		mg/1g	0.0607	
CBE per 1g	< LOQ		mg/1g	0.0325	
CBG per 1g	< LOQ		mg/1g	0.0325	
CBG-A per 1g	< LOQ		mg/1g	0.0325	
CBG-Total per 1g	< LOQ		mg/1g	0.0607	
CBL per 1g	< LOQ		mg/1g	0.0325	
CBL-A per 1g	< LOQ		mg/1g	0.0325	
CBL-Total per 1g	< LOQ		mg/1g	0.0610	
CBN per 1g	< LOQ		mg/1g	0.0325	
CBT per 1g	< LOQ		mg/1g	0.0325	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0325	
Δ10-THC per 1g	< LOQ		mg/1g	0.0325	
Δ8-THC per 1g	< LOQ		mg/1g	0.0325	
Δ9-THC per 1g	< LOQ		mg/1g	0.0325	
exo-THC per 1g	< LOQ		mg/1g	0.0325	
THC-A per 1g	< LOQ		mg/1g	0.0325	
THC-Total per 1g	< LOQ		mg/1g	0.0610	
THCV per 1g	< LOQ		mg/1g	0.0325	
THCV-A per 1g	< LOQ		mg/1g	0.0325	
THCV-Total per 1g	< LOQ		mg/1g	0.0611	
Total Cannabinoids per 1g	54.5		mg/1g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2210870	12/29/22 AOAC 991.14 (Petrifilm) <sup>P</sup>		I
Total Coliforms	< LOQ		cfu/g	10	2210870	12/29/22 AOAC 991.14 (Petrifilm) <sup>P</sup>		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210871	12/30/22 AOAC 2014.05 (RAPID) <sup>P</sup>		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210871	12/30/22 AOAC 2014.05 (RAPID) <sup>P</sup>		I

Solvents		Method: Residual Solvents by GC/MS <sup>b</sup>				Units µg/g	Batch 2210979	Analyze 12/29/22 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass	
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass							



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>						Units mg/kg	Batch 2210857	Analyze 12/22/22 09:25 AM			
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	
Bifenazate <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		Etoxazole <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		Flonicamid <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		Pacllobutrazole <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							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes		
Arsenic	< LOQ	0.200	mg/kg	0.0843	2210916	12/27/22 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0843	2210916	12/27/22 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Lead	< LOQ	0.500	mg/kg	0.0843	2210916	12/27/22 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Mercury	< LOQ	0.100	mg/kg	0.0422	2210916	12/27/22 AOAC 2013.06 (mod.) <sup>b</sup>	pass			



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**Report Number:** 22-015302/D003.R000  
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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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

<sup>¥</sup> = 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

### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner  
General Manager



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

**Cannabis Chain of Custody Record**

ORELAP ID: OR100028

Analysis Requested													Purchase Order Number:					
													Project Number:					
													Project Name:					
													<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30					
													Other:					
Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-TN.ISO.FL50-EK48	12/14	1:30	X		X	X				X	X	X			Tincture		mg/g	Potency First LazNat Discount

Collected By:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 14.4 <i>no cooling</i>
							Shipped Via: <i>direct</i>
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM  
Revision: 1.02 Control#: CF023 [www.pixislabs.com](http://www.pixislabs.com)  
Effective 01/31/2019 Revised 01/31/2019 Page 1 of 2

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Revision 1 Documen D 7148  
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Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2210738

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0294	0.034	%	87.2	80.0 - 120	Acceptable	
CBV	2	0.0331	0.037	%	90.1	80.0 - 120	Acceptable	
CE	2	0.0297	0.035	%	83.8	80.0 - 120	Acceptable	
CBA	1	0.0328	0.032	%	103	90.0 - 110	Acceptable	
CBSA	1	0.0329	0.032	%	102	80.0 - 120	Acceptable	
CBS	1	0.0331	0.032	%	104	80.0 - 120	Acceptable	
CB	1	0.0345	0.032	%	108	90.0 - 110	Acceptable	
THCV	2	0.0307	0.035	%	87.4	80.0 - 120	Acceptable	
d8THCV	2	0.0305	0.036	%	85.6	80.0 - 120	Acceptable	
THCVA	2	0.0285	0.033	%	86.7	80.0 - 120	Acceptable	
CBN	1	0.0346	0.033	%	105	80.0 - 120	Acceptable	
exo-THC	2	0.0296	0.034	%	86.5	80.0 - 120	Acceptable	
d9THC	1	0.0345	0.034	%	101	90.0 - 110	Acceptable	
d8THC	1	0.0315	0.033	%	94.5	90.0 - 110	Acceptable	
CB	2	0.0289	0.033	%	86.7	80.0 - 120	Acceptable	
d10THC	1	NA	0.031	%	NA	80.0 - 120	Acceptable	Q6
CB	2	0.0319	0.036	%	87.8	80.0 - 120	Acceptable	
THCA	1	0.0324	0.032	%	101	90.0 - 110	Acceptable	
CBA	2	0.0282	0.034	%	82.0	80.0 - 120	Acceptable	
CBA	2	0.0297	0.035	%	85.0	80.0 - 120	Acceptable	
CB	2	0.0255	0.036	%	70.2	80.0 - 120	Acceptable	Q6

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBV	<LOQ	0.003	%	< 0.003	Acceptable	
CE	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CBSA	<LOQ	0.003	%	< 0.003	Acceptable	
CBS	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	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:

% - Percent





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Revision 1 Document D 7148  
 Legacy D Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2210738						
Sample Duplicate		Sample ID: 22-0113840004						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0039	0.0045	0.003	%	14.2	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBS	0.0124	0.0149	0.003	%	18.2	< 20	Acceptable	
CB	1.63	1.65	0.003	%	1.11	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**



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

Report Number: 22-015302/D003.R000  
 Report Date: 01/06/2023  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 12/14/22 15:48



Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

Laboratory Quality Control Results

Residual Solvents				Batch D: 2210979					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		669	572	µg/g	117.0	60	120
Isobutane	ND	< 200		855	731	µg/g	117.0	60	120
Butane	ND	< 200		848	731	µg/g	116.0	60	120
2,2 Dimethylpropane	ND	< 200		1100	936	µg/g	117.5	60	120
Methanol	ND	< 200		1880	1620	µg/g	116.0	60	120
Ethylene Oxide	ND	< 30		65.9	56.2	µg/g	117.3	60	120
2 Methylbutane	ND	< 200		1920	1610	µg/g	119.3	60	120
Pentane	ND	< 200		1910	1600	µg/g	119.4	60	120
Ethanol	ND	< 200		1920	1610	µg/g	119.3	70	130
Ethyl Ether	ND	< 200		1920	1630	µg/g	117.8	60	120
2,2 Dimethylbutane	ND	< 30		207	171	µg/g	121.1	60	120 Q1
Acetone	ND	< 200		1880	1630	µg/g	115.3	60	120
2 Propanol	ND	< 200		1920	1620	µg/g	118.5	60	120
Ethyl Formate	ND	< 500		1780	1670	µg/g	106.6	70	130
Acetonitrile	ND	< 100		587	498	µg/g	117.9	60	120
Methyl Acetate	ND	< 500		1730	1730	µg/g	100.0	70	130
2,3 Dimethylbutane	ND	< 30		198	171	µg/g	115.8	60	120
Dichloromethane	ND	< 60		573	483	µg/g	118.6	60	120
2 Methylpentane	ND	< 30		191	168	µg/g	113.7	60	120
M BE	ND	< 500		1660	1650	µg/g	100.6	70	130
3 Methylpentane	ND	< 30		182	167	µg/g	109.0	60	120
Hexane	ND	< 30		253	182	µg/g	139.0	60	120 Q1
1 Propanol	ND	< 500		1640	1620	µg/g	101.2	70	130
Methylethylketone	ND	< 500		1630	1620	µg/g	100.6	70	130
Ethyl acetate	ND	< 200		1900	1610	µg/g	118.0	60	120
2 Butanol	ND	< 200		1930	1600	µg/g	120.6	60	120 Q1
tetrahydrofuran	ND	< 100		566	483	µg/g	117.2	60	120
Cyclohexane	ND	< 200		1930	1610	µg/g	119.9	60	120
2 methyl 1 propanol	ND	< 500		1600	1620	µg/g	98.8	70	130
Benzene	ND	< 1		6.38	5.02	µg/g	127.1	60	120 Q1
Isopropyl Acetate	ND	< 200		1930	1620	µg/g	119.1	60	120
Heptane	ND	< 200		1890	1610	µg/g	117.4	60	120
1 Butanol	ND	< 500		1630	1630	µg/g	100.0	70	130
Propyl Acetate	ND	< 500		1610	1610	µg/g	100.0	70	130
1,4 Dioxane	ND	< 100		595	491	µg/g	121.2	60	120 Q1
2 Ethoxyethanol	ND	< 30		225	181	µg/g	124.3	60	120 Q1
Methylisobutylketone	ND	< 500		1370	1620	µg/g	96.9	70	130
3 Methyl 1 butanol	ND	< 500		1660	1630	µg/g	101.8	70	130
Ethylene Glycol	ND	< 200		500	484	µg/g	103.3	60	120
oluene	ND	< 100		596	485	µg/g	122.9	60	120 Q1
Isobutyl Acetate	ND	< 500		1630	1630	µg/g	100.0	70	130
1 Pentanol	ND	< 500		1640	1620	µg/g	101.2	70	130
Butyl Acetate	ND	< 500		1570	1620	µg/g	96.9	70	130
Ethylbenzene	ND	< 200		1220	969	µg/g	125.9	60	120 Q1
m,p Xylene	ND	< 200		1240	994	µg/g	124.7	60	120 Q1
o Xylene	ND	< 200		1230	967	µg/g	127.2	60	120 Q1
Cumene	ND	< 30		225	171	µg/g	131.6	60	120 Q1
Anisole	ND	< 500		1630	1630	µg/g	100.0	70	130
DMSO	ND	< 500		1680	1680	µg/g	100.0	70	130
1,2 dimethoxyethane	ND	< 50		171	169	µg/g	101.2	70	130
riethylamine	ND	< 500		1600	1630	µg/g	98.2	70	130
N,N dimethylformamide	ND	< 150		505	482	µg/g	104.8	70	130
N,N dimethylacetamide	ND	< 150		505	510	µg/g	99.0	70	130
Pyridine	ND	< 50		212	203	µg/g	104.4	70	130
Sulfone	ND	< 50		165	172	µg/g	95.9	70	130
1,2 Dichloroethane	ND	< 1		1.15	1	µg/g	115.0	70	130
Chloroform	ND	< 1		1.21	1	µg/g	121.0	70	130
richloroethylene	ND	< 1		1.13	1	µg/g	113.0	70	130
1,1 Dichloroethane	ND	< 1		1.13	1	µg/g	113.0	70	130



12423 NE Whitaker Way  
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 503-254-1794



**Report Number:** 22-015302/D003.R000  
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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/14/22 15:48

Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

QC- Sample Duplicate Sample ID: 22-015302-0001

Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2 Dimethylpropane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30 µg/g	0.0	< 20	Acceptable	
2 Methylbutane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2 Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2 Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3 Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable	
2 Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
M BE	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3 Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
1 Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
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	
oluene	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	
richloroethylene	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
- Q1 Quality control result biased high. On y non detect samples reported.

**Units of Measure:**

µg/g Microgram per gram or ppm



12423 NE Whitaker Way  
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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.