

## 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		

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.



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



**Report Number:** 23-010546/D002.R000  
**Report Date:** 09/13/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2624237  
**Received:** 09/05/23 16:23

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-GMY.BC50-FH99  
**Client/Metric ID:** .  
**Laboratory ID:** 23-010546-0001

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.273		mg/1g		CBD-Total per Serving Size 11.2 mg/1g
CBD per 1g	11.2		mg/1g		
CBDV per 1g	0.150		mg/1g		THC-Total per Serving Size 0.427 mg/1g
CBG per 1g	0.0878		mg/1g		(Reported in milligrams per serving)
CBT per 1g	0.157		mg/1g		
Δ9-THC per 1g	0.427		mg/1g		
THCV per 1g	0.0588		mg/1g		

**Residual Solvents:**

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	1130		

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

**Product identity:** FORM-GMY.BC50-FH99

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-010546-0001

**Evidence of Cooling:** No

**Temp:** 21.9 °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: 2310729	Analyze: 9/8/23 5:29:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.273		mg/1g	0.0317	
CBC-A per 1g	< LOQ		mg/1g	0.0317	
CBC-Total per 1g	0.273		mg/1g	0.0594	
CBD per 1g	11.2		mg/1g	0.317	
CBD-A per 1g	< LOQ		mg/1g	0.0317	
CBD-Total per 1g	11.2		mg/1g	0.344	
CBDV per 1g	0.150		mg/1g	0.0317	
CBDV-A per 1g	< LOQ		mg/1g	0.0317	
CBDV-Total per 1g	0.150		mg/1g	0.0591	
CBE per 1g	< LOQ		mg/1g	0.0317	
CBG per 1g	0.0878		mg/1g	0.0317	
CBG-A per 1g	< LOQ		mg/1g	0.0317	
CBG-Total per 1g	0.0878		mg/1g	0.0591	
CBL per 1g	< LOQ		mg/1g	0.0317	
CBL-A per 1g	< LOQ		mg/1g	0.0317	
CBL-Total per 1g	< LOQ		mg/1g	0.0594	
CBN per 1g	< LOQ		mg/1g	0.0317	
CBT per 1g	0.157		mg/1g	0.0317	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0317	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0317	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0317	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0633	
Δ8-THC per 1g	< LOQ		mg/1g	0.0317	
Δ9-THC per 1g	0.427		mg/1g	0.0317	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0317	
exo-THC per 1g	< LOQ		mg/1g	0.0317	
THC-A per 1g	< LOQ		mg/1g	0.0317	
THC-Total per 1g	0.427		mg/1g	0.0594	
THCV per 1g	0.0588		mg/1g	0.0317	
THCV-A per 1g	< LOQ		mg/1g	0.0317	



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Potency per 1g						
Analyte	Method: J AOAC 2015 V98-6 (mod) <sup>P</sup>	Result	Limits	Units mg/se	Batch: 2310729	Analyze: 9/8/23 5:29:00 AM
THCV-Total per 1g		< LOQ		mg/1g		0.0595
Total Cannabinoids per 1g		12.4		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310664	09/09/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2310664	09/09/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310666	09/09/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310666	09/09/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

Solvents											
Method: Residual Solvents by GC/MS <sup>P</sup>						Units µg/g		Batch 2310772		Analyze 09/11/23 01:41 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	1130		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 2310697 Analyze 09/08/23 07:40 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 <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0160	2310725	09/08/23	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0160	2310725	09/08/23	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0160	2310725	09/08/23	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00798	2310725	09/08/23	AOAC 2013.06 (mod.) <sup>b</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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Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2310697			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		0.920	1.000	92.0	50.0	150
Acephate	0.016	< 0.200		0.736	0.800	92.1	60.0	120
Acetamiprid	0.000	< 1.000		3.785	4.000	94.6	40.0	160
Acetamiprid	0.001	< 0.100		0.369	0.400	92.3	60.0	120
Aldicarb	0.000	< 0.200		0.816	0.800	102.0	60.0	120
Azoxystrobin	0.004	< 0.100		0.362	0.400	90.5	60.0	120
Bifenazate	0.000	< 0.100		0.394	0.400	98.6	60.0	120
Bifenthrin	0.000	< 0.100		0.359	0.400	89.8	50.0	150
Boscalid	0.000	< 0.200		0.748	0.800	93.5	60.0	120
Carbaryl	0.001	< 0.100		0.375	0.400	93.7	60.0	120
Carbofuran	0.000	< 0.100		0.369	0.400	92.3	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.379	0.400	94.8	60.0	120
Chlorfenapyr	0.000	< 0.500		1.688	2.000	84.4	60.0	120
Chlorpyrifos	0.005	< 0.100		0.369	0.400	92.2	60.0	120
Clofentazine	0.000	< 0.100		0.351	0.400	87.9	60.0	120
Cyfluthrin	0.000	< 0.500		1.896	2.000	94.8	50.0	150
Cypermethrin	0.000	< 0.500		1.901	2.000	95.0	50.0	150
Daminozide	0.024	< 0.500		0.874	2.000	43.7	60.0	120
Diazinon	0.000	< 0.100		0.408	0.400	102.1	60.0	120
Dichlorvos	0.000	< 0.500		1.858	2.000	92.9	60.0	120
Dimethoate	0.000	< 0.100		0.370	0.400	92.6	60.0	120
Ethoprophos	0.000	< 0.100		0.374	0.400	93.5	60.0	120
Etofenprox	0.004	< 0.200		0.725	0.800	90.7	50.0	150
Etoxazole	0.006	< 0.100		0.413	0.400	103.3	60.0	120
Fenoxycarb	0.000	< 0.100		0.366	0.400	91.5	60.0	120
Fenpyroximate	0.000	< 0.200		0.770	0.800	96.3	60.0	120
Fipronil	0.000	< 0.200		0.726	0.800	90.8	60.0	120
Fonicamid	0.000	< 0.250		0.923	1.000	92.3	60.0	120
Fludioxonil	0.000	< 0.200		0.742	0.800	92.7	50.0	150
Hexythiazox	0.006	< 0.250		0.929	1.000	92.9	60.0	120
Imazalil	0.009	< 0.100		0.371	0.400	92.7	60.0	120
Imidacloprid	0.000	< 0.200		0.751	0.800	93.9	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.768	0.800	95.9	60.0	120
Malathion	0.000	< 0.100		0.371	0.400	92.8	60.0	120
Metaxalyl	0.004	< 0.100		0.373	0.400	93.3	60.0	120
Methiocarb	0.000	< 0.100		0.368	0.400	91.9	60.0	120
Methomyl	0.000	< 0.200		0.739	0.800	92.4	60.0	120
MGK-264	0.002	< 0.100		0.377	0.400	94.2	50.0	150
Myclobutanil	0.000	< 0.100		0.376	0.400	94.1	60.0	120
Naled	0.000	< 0.250		0.889	1.000	88.9	50.0	150
Oxamyl	0.000	< 0.500		1.900	2.000	95.0	60.0	120
Pacllobutrazole	0.000	< 0.200		0.746	0.800	93.2	60.0	120
Parathion-Methyl	0.000	< 0.100		0.329	0.400	82.2	50.0	150
Permethrin	0.000	< 0.100		0.377	0.400	94.2	50.0	150
Phosmet	0.000	< 0.100		0.378	0.400	94.6	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.889	2.000	94.4	60.0	120
Prallethrin	0.000	< 0.100		0.397	0.400	99.1	60.0	120
Propiconazole	0.000	< 0.200		0.725	0.800	90.7	60.0	120
Propoxur	0.002	< 0.100		0.361	0.400	90.4	60.0	120
Pyrethrin (Summe)	0.003	< 0.100		0.462	0.488	94.6	60.0	120
Pyridaben	0.002	< 0.100		0.377	0.400	94.3	50.0	150
Spinosad	0.000	< 0.100		0.359	0.388	92.6	50.0	150
Spiromesifen	0.000	< 0.100		0.374	0.400	93.4	60.0	120
Spirotetramat	0.001	< 0.100		0.379	0.400	94.7	60.0	120
Spiroxamine	0.007	< 0.200		0.736	0.800	92.0	60.0	120
Tebuconazole	0.000	< 0.200		0.725	0.800	90.7	60.0	120
Thiacloprid	0.000	< 0.100		0.376	0.400	94.1	60.0	120
Thiamethoxam	0.000	< 0.100		0.365	0.400	91.3	60.0	120
Trifloxystrobin	0.000	< 0.100		0.365	0.400	91.3	60.0	120

Q6

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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**Report Date:** 09/13/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2624237  
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 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2310729

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0313	0.0309	%	101	80.0	- 120	Acceptable	
CBDV	2	0.0317	0.0313	%	101	80.0	- 120	Acceptable	
CBE	2	0.0331	0.0329	%	100	80.0	- 120	Acceptable	
CBDA	1	0.0339	0.0338	%	100	90.0	- 110	Acceptable	
CBGA	1	0.0344	0.0343	%	100	80.0	- 120	Acceptable	
CBG	1	0.0364	0.0363	%	100	80.0	- 120	Acceptable	
CBD	1	0.0351	0.0351	%	99.9	90.0	- 110	Acceptable	
THCV	2	0.0202	0.0200	%	101	80.0	- 120	Acceptable	
d8THCV	2	0.0276	0.0276	%	99.9	80.0	- 120	Acceptable	
THCVA	2	0.0308	0.0307	%	100	80.0	- 120	Acceptable	
CBN	1	0.0343	0.0343	%	99.8	80.0	- 120	Acceptable	
exo-THC	2	0.0301	0.0302	%	99.6	80.0	- 120	Acceptable	
d9THC	1	0.0356	0.0355	%	100	90.0	- 110	Acceptable	
d8THC	1	0.0357	0.0364	%	98.0	90.0	- 110	Acceptable	
9S-d10THC	1	0.0349	0.0354	%	98.3	80.0	- 120	Acceptable	
CBL	2	0.0324	0.0311	%	104	80.0	- 120	Acceptable	
9R-d10THC	1	0.0110	0.0115	%	95.4	80.0	- 120	Acceptable	
CBC	2	0.0325	0.0335	%	97.2	80.0	- 120	Acceptable	
THCA	1	0.0350	0.0344	%	102	90.0	- 110	Acceptable	
CBCA	2	0.0319	0.0319	%	99.8	80.0	- 120	Acceptable	
CBLA	2	0.0644	0.0647	%	99.6	80.0	- 120	Acceptable	
d9THCP	2	0.0309	0.0316	%	97.6	80.0	- 120	Acceptable	
CBT	2	0.0295	0.0308	%	95.7	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBDV	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBE	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBDA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBGA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBG	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBD	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCV	<LOQ	0.00321	%	< 0.00321	Acceptable	
d8THCV	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCVA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBN	<LOQ	0.00321	%	< 0.00321	Acceptable	
exo-THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
d9THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
d8THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
9S-d10THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBL	<LOQ	0.00321	%	< 0.00321	Acceptable	
9R-d10THC	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBC	<LOQ	0.00321	%	< 0.00321	Acceptable	
THCA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBCA	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBLA	<LOQ	0.00321	%	< 0.00321	Acceptable	
d9THCP	<LOQ	0.00321	%	< 0.00321	Acceptable	
CBT	<LOQ	0.00321	%	< 0.00321	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



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2310729						
Sample Duplicate		Sample ID: 23-010475-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBG	0.0271	0.0269	0.00315	%	0.836	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBN	0.00386	0.00380	0.00315	%	1.59	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d9THC	0.385	0.383	0.00315	%	0.532	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBC	0.00632	0.00631	0.00315	%	0.184	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00315	%	NA	< 20	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  
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310772					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		560	584	µg/g	95.9	60 - 120	
Isobutane	ND	< 200		711	767	µg/g	92.7	60 - 120	
Butane	ND	< 200		688	782	µg/g	88.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		854	939	µg/g	90.9	60 - 120	
Methanol	ND	< 200		1630	1670	µg/g	97.6	60 - 120	
Ethylene Oxide	ND	< 30		54.7	57.1	µg/g	95.8	60 - 120	
2-Methylbutane	ND	< 200		1470	1680	µg/g	87.5	60 - 120	
Pentane	ND	< 200		1480	1670	µg/g	88.6	60 - 120	
Ethanol	ND	< 200		1610	1660	µg/g	97.0	70 - 130	
Ethyl Ether	ND	< 200		1520	1670	µg/g	91.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		168	189	µg/g	88.9	60 - 120	
Acetone	ND	< 200		1550	1670	µg/g	92.8	60 - 120	
2-Propanol	ND	< 200		1530	1630	µg/g	93.9	60 - 120	
Ethyl Formate	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
Acetonitrile	ND	< 100		447	492	µg/g	90.9	60 - 120	
Methyl Acetate	ND	< 500		1560	1600	µg/g	97.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		159	180	µg/g	88.3	60 - 120	
Dichloromethane	ND	< 60		451	488	µg/g	92.4	60 - 120	
2-Methylpentane	ND	< 30		151	182	µg/g	83.0	60 - 120	
MTBE	ND	< 500		1560	1610	µg/g	96.9	70 - 130	
3-Methylpentane	ND	< 30		155	177	µg/g	87.6	60 - 120	
Hexane	ND	< 30		160	177	µg/g	90.4	60 - 120	
1-Propanol	ND	< 500		1520	1600	µg/g	95.0	70 - 130	
Methylethylketone	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Ethyl acetate	ND	< 200		1500	1630	µg/g	92.0	60 - 120	
2-Butanol	ND	< 200		1470	1630	µg/g	90.2	60 - 120	
Tetrahydrofuran	ND	< 100		456	488	µg/g	93.4	60 - 120	
Cyclohexane	ND	< 200		1410	1610	µg/g	87.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
Benzene	ND	< 1		4.39	4.79	µg/g	91.6	60 - 120	
Isopropyl Acetate	ND	< 200		1510	1650	µg/g	91.5	60 - 120	
Heptane	ND	< 200		1420	1630	µg/g	87.1	60 - 120	
1-Butanol	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
Propyl Acetate	ND	< 500		1440	1600	µg/g	90.0	70 - 130	
1,4-Dioxane	ND	< 100		421	523	µg/g	80.5	60 - 120	
2-Ethoxyethanol	ND	< 30		155	179	µg/g	86.6	60 - 120	
Methylisobutylketone	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1250	1600	µg/g	78.1	70 - 130	
Ethylene Glycol	ND	< 200		311	506	µg/g	61.5	60 - 120	
Toluene	ND	< 100		414	496	µg/g	83.5	60 - 120	
Isobutyl Acetate	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
1-Pentanol	ND	< 500		1440	1600	µg/g	90.0	70 - 130	
Butyl Acetate	ND	< 500		1330	1610	µg/g	82.6	70 - 130	
Ethylbenzene	ND	< 200		732	978	µg/g	74.8	60 - 120	
m,p-Xylene	ND	< 200		742	994	µg/g	74.6	60 - 120	
o-Xylene	ND	< 200		719	982	µg/g	73.2	60 - 120	
Cumene	ND	< 30		111	171	µg/g	64.9	60 - 120	
Anisole	ND	< 500		1200	1600	µg/g	75.0	70 - 130	
DMSO	ND	< 500		1240	1620	µg/g	76.5	70 - 130	
1,2-dimethoxyethane	ND	< 50		171	185	µg/g	91.9	70 - 130	
Triethylamine	ND	< 500		1310	1600	µg/g	81.9	70 - 130	
N,N-dimethylformamide	ND	< 150		393	480	µg/g	81.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		323	483	µg/g	66.9	70 - 130	Q6
Pyridine	ND	< 50		140	168	µg/g	83.3	70 - 130	
Sulfolane	ND	< 50		69.5	161	µg/g	43.2	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.873	1	µg/g	87.3	70 - 130	
Chloroform	ND	< 1		0.842	1	µg/g	84.2	70 - 130	
Trichloroethylene	ND	< 1		0.846	1	µg/g	84.6	70 - 130	
1,1-Dichloroethane	ND	< 1		0.898	1	µg/g	89.8	70 - 130	



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QC - Sample Duplicate		Sample ID: 23-010300-0001						
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

**Units of Measure:**

µg/g- Microgram per gram or ppm



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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.