

## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

**BULK SKU** GMY.RLX25

**BATCH #** FF05

**PRODUCT NAME** CBD Calm Gummies

**SERVING SIZE** 2 gummies (10g)

**LABORATORY:** Columbia Laboratories

**OREGON ACCREDITATION:** OR100028

**LOQ:** Limit Of Quantitation  
**LOD:** 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

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	<b>66.00 mg/serving</b>	6.60 mg/g	0.66 %
Total THC (d9-THC, THCA)	<b>2.60 mg/serving</b>	0.26 mg/g	0.03 %
Cannabigerol (CBG)	<b>0.51 mg/serving</b>	0.05 mg/g	0.01 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	<b>2.36 mg/serving</b>	0.24 mg/g	0.02 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	<b>2.60 mg/serving</b>	0.26 mg/g	0.03 %
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.

\*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:** 23-007270/D015.R000  
**Report Date:** 06/26/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2521082  
**Received:** 06/19/23 16:51

**Customer:** Etz Hayim Holdings  
**Product identity:** FORM-GMY.RLX25-FF05  
**Client/Metric ID:** .  
**Laboratory ID:** 23-007270-0005

**Summary**

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.236		mg/1g		CBD-Total per Serving Size 6.60 mg/1g
CBD per 1g	6.60		mg/1g		
CBDV per 1g	0.106		mg/1g		THC-Total per Serving Size 0.260 mg/1g
CBE per 1g	0.0721		mg/1g		(Reported in milligrams per serving)
CBG per 1g	0.0514		mg/1g		
CBT per 1g	0.165		mg/1g		
Δ9-THC per 1g	0.260		mg/1g		

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

**Product identity:** FORM-GMY.RLX25-FF05

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-007270-0005

**Evidence of Cooling:** No

**Temp:** 21.6

**Relinquished by:** client

**Serving Size #1:** 1 g

### Sample Results

Potency per 1g					
Method: J AOAC 2015 V98-6 (mod) <sup>p</sup>					
Units mg/se Batch: 2308456 Analyze: 6/21/23 8:35:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.236		mg/1g	0.0322	
CBC-A per 1g	< LOQ		mg/1g	0.0322	
CBC-Total per 1g	0.236		mg/1g	0.0604	
CBD per 1g	6.60		mg/1g	0.0322	
CBD-A per 1g	< LOQ		mg/1g	0.0322	
CBD-Total per 1g	6.60		mg/1g	0.0604	
CBDV per 1g	0.106		mg/1g	0.0322	
CBDV-A per 1g	< LOQ		mg/1g	0.0322	
CBDV-Total per 1g	0.106		mg/1g	0.0601	
CBE per 1g	0.0721		mg/1g	0.0322	
CBG per 1g	0.0514		mg/1g	0.0322	
CBG-A per 1g	< LOQ		mg/1g	0.0322	
CBG-Total per 1g	< LOQ		mg/1g	0.0601	
CBL per 1g	< LOQ		mg/1g	0.0322	
CBL-A per 1g	< LOQ		mg/1g	0.0322	
CBL-Total per 1g	< LOQ		mg/1g	0.0604	
CBN per 1g	< LOQ		mg/1g	0.0322	
CBT per 1g	0.165		mg/1g	0.0322	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0322	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0322	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0322	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0644	
Δ8-THC per 1g	< LOQ		mg/1g	0.0322	
Δ9-THC per 1g	0.260		mg/1g	0.0322	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0322	
exo-THC per 1g	< LOQ		mg/1g	0.0322	
THC-A per 1g	< LOQ		mg/1g	0.0322	
THC-Total per 1g	0.260		mg/1g	0.0604	
THCV per 1g	< LOQ		mg/1g	0.0322	
THCV-A per 1g	< LOQ		mg/1g	0.0322	

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 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 333-007-0430



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Potency per 1g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2308456	Analyze: 6/21/23 8:35:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0604	
Total Cannabinoids per 1g	7.49		mg/1g		

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2308397	06/23/23 AOAC 990.12 (Petrifilm) <sup>b</sup>	
E.coli	< LOQ		cfu/g	10	2308395	06/23/23 AOAC 991.14 (Petrifilm) <sup>b</sup>	
Total Coliforms	< LOQ		cfu/g	10	2308395	06/23/23 AOAC 991.14 (Petrifilm) <sup>b</sup>	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308396	06/23/23 AOAC 2014.05 (RAPID) <sup>b</sup>	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308396	06/23/23 AOAC 2014.05 (RAPID) <sup>b</sup>	

Solvents											
Method: Residual Solvents by GC/MS <sup>b</sup>						Units µg/g		Batch 2308495		Analyze 06/23/23 10:00 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							



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) <sup>p</sup>						Units mg/kg		Batch 2308436		Analyze 06/21/23 03:31 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		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		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		Paclobutrazole <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	0.0164	2308494	06/22/23	AOAC 2013.06	(mod.) <sup>p</sup>	pass		
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0164	2308494	06/22/23	AOAC 2013.06	(mod.) <sup>p</sup>	pass		
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0164	2308494	06/22/23	AOAC 2013.06	(mod.) <sup>p</sup>	pass		
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00822	2308494	06/22/23	AOAC 2013.06	(mod.) <sup>p</sup>	pass		



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**Report Number:** 23-007270/D015.R000  
**Report Date:** 06/26/2023  
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**Purchase Order:** 2521082  
**Received:** 06/19/23 16:51

**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

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2308436			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.912	1.000	91.2	50.0	150
Acephate	0.049	< 0.200		0.668	0.800	83.6	60.0	120
Acequinocyl	0.081	< 1.000		3.867	4.000	96.7	40.0	160
Acetamiprid	0.000	< 0.100		0.389	0.400	97.2	60.0	120
Aldicarb	0.000	< 0.200		0.794	0.800	99.2	60.0	120
Azoxystrobin	0.009	< 0.100		0.382	0.400	95.6	60.0	120
Bifenazate	0.000	< 0.100		0.402	0.400	100.5	60.0	120
Bifenthrin	0.000	< 0.100		0.387	0.400	96.8	50.0	150
Boscalid	0.000	< 0.200		0.822	0.800	102.8	60.0	120
Carbaryl	0.000	< 0.100		0.388	0.400	97.0	60.0	120
Carbofuran	0.000	< 0.100		0.398	0.400	99.5	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Chlorfenapyr	0.000	< 0.500		2.043	2.000	102.1	60.0	120
Chlorpyrifos	0.001	< 0.100		0.370	0.400	92.6	60.0	120
Clofentezine	0.000	< 0.100		0.378	0.400	94.4	60.0	120
Cyfluthrin	0.100	< 0.500		2.033	2.000	101.7	50.0	150
Cypermethrin	0.000	< 0.500		1.936	2.000	96.8	50.0	150
Daminozide	0.000	< 0.500		0.667	2.000	33.4	60.0	120
Diazinon	0.000	< 0.100		0.428	0.400	107.0	60.0	120
Dichlorvos	0.000	< 0.500		1.935	2.000	96.8	60.0	120
Dimethoate	0.000	< 0.100		0.447	0.400	111.8	60.0	120
Ethoprophos	0.001	< 0.100		0.394	0.400	98.6	60.0	120
Etofenprox	0.000	< 0.200		0.771	0.800	96.4	50.0	150
Etoazole	0.000	< 0.100		0.420	0.400	105.0	60.0	120
Fenoxycarb	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Fenpyroximate	0.000	< 0.200		0.790	0.800	98.8	60.0	120
Fipronil	0.000	< 0.200		0.777	0.800	97.2	60.0	120
Fonicamid	0.000	< 0.250		1.064	1.000	106.4	60.0	120
Fludioxonil	0.002	< 0.200		0.779	0.800	97.4	50.0	150
Hexythiazox	0.000	< 0.250		1.011	1.000	101.1	60.0	120
Imazalil	0.000	< 0.100		0.395	0.400	98.8	60.0	120
Imidacloprid	0.000	< 0.200		0.901	0.800	112.6	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.802	0.800	100.2	60.0	120
Malathion	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Metaxyl	0.000	< 0.100		0.407	0.400	101.7	60.0	120
Methiocarb	0.000	< 0.100		0.393	0.400	98.2	60.0	120
Methomyl	0.000	< 0.200		0.855	0.800	106.9	60.0	120
MGK-264	0.001	< 0.100		0.397	0.400	99.3	50.0	150
Myclobutanil	0.003	< 0.100		0.400	0.400	100.0	60.0	120
Naled	0.000	< 0.250		0.993	1.000	99.3	50.0	150
Oxamyl	0.000	< 0.500		2.089	2.000	104.4	60.0	120
Paclbutrazole	0.000	< 0.200		0.800	0.800	100.0	60.0	120
Parathion-Methyl	0.000	< 0.100		0.395	0.400	98.8	50.0	150
Permethrin	0.000	< 0.100		0.387	0.400	96.8	50.0	150
Phosmet	0.000	< 0.100		0.397	0.400	99.1	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.984	2.000	99.2	60.0	120
Prallethrin	0.000	< 0.100		0.390	0.400	97.5	60.0	120
Propiconazole	0.000	< 0.200		0.793	0.800	99.1	60.0	120
Propoxur	0.008	< 0.100		0.389	0.400	97.1	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.483	0.488	98.9	60.0	120
Pyridaben	0.000	< 0.100		0.391	0.400	97.7	50.0	150
Spinosad	0.000	< 0.100		0.384	0.388	99.0	50.0	150
Spiromesifen	0.000	< 0.100		0.386	0.400	96.6	60.0	120
Spirotetramat	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Spiroxamine	0.006	< 0.200		0.787	0.800	98.3	60.0	120
Tebuconazole	0.000	< 0.200		0.824	0.800	103.0	60.0	120
Thiacloprid	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Thiamethoxam	0.000	< 0.100		0.432	0.400	108.1	60.0	120
Trifloxystrobin	0.000	< 0.100		0.394	0.400	98.4	60.0	120

Q6



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



Report Number: 23-007270/D015.R000  
 Report Date: 06/26/2023  
 ORELAP#: OR100028  
 Purchase Order: 2521082  
 Received: 06/19/23 16:51

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: 2308436				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 23-007270-0012					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.981	1.024	1.000	4.3%	< 30	98.1%	102.4%	50 - 150		
Acephate	0.049	0.699	0.675	0.800	3.8%	< 30	81.3%	78.2%	50 - 150		
Acequinocyl	0.000	3.935	3.840	4.000	2.5%	< 30	98.4%	96.0%	50 - 150		
Acetamidrid	0.000	0.397	0.394	0.400	0.6%	< 30	99.2%	98.5%	50 - 150		
Aldicarb	0.000	0.801	0.809	0.800	1.0%	< 30	100.1%	101.1%	50 - 150		
Azoxystrobin	0.008	0.395	0.386	0.400	2.4%	< 30	96.8%	94.4%	50 - 150		
Bifenazate	0.000	0.399	0.400	0.400	0.2%	< 30	99.7%	100.0%	50 - 150		
Bifenthrin	0.000	0.409	0.387	0.400	5.5%	< 30	102.2%	96.7%	50 - 150		
Boscalid	0.000	0.752	0.765	0.800	1.7%	< 30	94.0%	95.6%	50 - 150		
Carbaryl	0.000	0.399	0.387	0.400	3.0%	< 30	99.7%	96.8%	50 - 150		
Carbofuran	0.000	0.398	0.390	0.400	2.0%	< 30	99.4%	97.4%	50 - 150		
Chlorantraniliprole	0.000	0.399	0.389	0.400	2.4%	< 30	99.7%	97.3%	50 - 150		
Chlorfenvinpyr	0.000	2.068	1.823	2.000	12.6%	< 30	103.4%	91.2%	50 - 150		
Chlorpyrifos	0.002	0.372	0.373	0.400	0.2%	< 30	92.7%	92.9%	50 - 150		
Clofentezine	0.000	0.360	0.357	0.400	0.6%	< 30	89.9%	89.3%	50 - 150		
Cyfluthrin	0.000	1.907	1.924	2.000	0.9%	< 30	95.4%	96.2%	30 - 150		
Cypermethrin	0.000	1.974	2.010	2.000	1.8%	< 30	98.7%	100.5%	50 - 150		
Daminozide	0.000	0.695	0.680	2.000	2.1%	< 30	34.7%	34.0%	30 - 150		
Diazinon	0.000	0.431	0.439	0.400	1.8%	< 30	107.6%	109.6%	50 - 150		
Dichlorvos	0.018	1.926	1.930	2.000	0.2%	< 30	95.4%	95.6%	50 - 150		
Dimethoate	0.000	0.446	0.443	0.400	0.7%	< 30	111.6%	110.8%	50 - 150		
Ethoprophos	0.001	0.400	0.391	0.400	2.3%	< 30	99.8%	97.5%	50 - 150		
Etofenprox	0.000	0.794	0.799	0.800	0.6%	< 30	99.3%	99.8%	50 - 150		
Etoxazole	0.000	0.450	0.420	0.400	6.9%	< 30	112.4%	104.9%	50 - 150		
Fenoxycarb	0.000	0.403	0.389	0.400	3.6%	< 30	100.7%	97.1%	50 - 150		
Fenpyroximate	0.000	0.868	0.864	0.800	0.5%	< 30	108.5%	108.0%	50 - 150		
Fipronil	0.000	0.779	0.794	0.800	1.9%	< 30	97.4%	99.3%	50 - 150		
Flonicamid	0.000	1.016	1.017	1.000	0.0%	< 30	101.6%	101.7%	50 - 150		
Fludioxonil	0.000	0.786	0.772	0.800	1.8%	< 30	98.2%	96.5%	50 - 150		
Hexythiazox	0.000	0.987	0.967	1.000	2.1%	< 30	98.7%	96.7%	50 - 150		
Imazalil	0.000	0.391	0.394	0.400	1.0%	< 30	97.6%	98.6%	50 - 150		
Imidacloprid	0.000	0.871	0.908	0.800	4.1%	< 30	108.9%	113.5%	50 - 150		
Kresoxim-methyl	0.000	0.834	0.814	0.800	2.4%	< 30	104.3%	101.8%	50 - 150		
Malathion	0.000	0.401	0.388	0.400	3.2%	< 30	100.2%	97.1%	50 - 150		
Metaxalyl	0.000	0.397	0.394	0.400	0.6%	< 30	99.2%	98.6%	50 - 150		
Methiocarb	0.000	0.398	0.394	0.400	0.9%	< 30	99.4%	98.5%	50 - 150		
Methomyl	0.000	0.846	0.818	0.800	3.3%	< 30	105.7%	102.2%	50 - 150		
MGK-264	0.000	0.387	0.398	0.400	2.7%	< 30	96.9%	99.5%	50 - 150		
Myclobutanil	0.003	0.411	0.401	0.400	2.5%	< 30	102.1%	99.6%	50 - 150		
Naled	0.000	0.994	0.976	1.000	1.8%	< 30	99.4%	97.6%	50 - 150		
Oxamyl	0.000	2.083	2.025	2.000	2.8%	< 30	104.1%	101.2%	50 - 150		
Paclobutrazole	0.000	0.803	0.787	0.800	2.0%	< 30	100.4%	98.3%	50 - 150		
Parathion-Methyl	0.000	0.415	0.373	0.400	10.7%	< 30	103.8%	93.2%	30 - 150		
Permethrin	0.000	0.382	0.384	0.400	0.5%	< 30	95.5%	96.0%	50 - 150		
Phosmet	0.000	0.410	0.398	0.400	3.1%	< 30	102.5%	99.4%	50 - 150		
Piperonyl butoxide	0.000	2.068	1.982	2.000	4.2%	< 30	103.4%	99.1%	50 - 150		
Prallethrin	0.000	0.395	0.404	0.400	2.1%	< 30	98.8%	100.9%	50 - 150		
Propiconazole	0.000	0.792	0.788	0.800	0.6%	< 30	99.0%	98.4%	50 - 150		
Propoxur	0.007	0.398	0.396	0.400	0.6%	< 30	97.6%	97.1%	50 - 150		
Pyrethrin (Summe)	0.004	0.383	0.381	0.488	0.6%	< 30	77.8%	77.3%	50 - 150		
Pyridaben	0.000	0.386	0.375	0.400	3.0%	< 30	96.6%	93.8%	50 - 150		
Spinosad	0.000	0.403	0.386	0.388	4.4%	< 30	104.0%	99.5%	50 - 150		
Spiromesifen	0.000	0.404	0.393	0.400	2.6%	< 30	100.9%	98.4%	50 - 150		
Spirotetramat	0.000	0.394	0.387	0.400	1.7%	< 30	98.5%	96.9%	50 - 150		
Spiroxamine	0.000	0.802	0.790	0.800	1.5%	< 30	100.2%	98.7%	50 - 150		
Tebuconazole	0.000	0.799	0.802	0.800	0.3%	< 30	99.9%	100.2%	50 - 150		
Thiacloprid	0.000	0.408	0.396	0.400	2.8%	< 30	101.9%	99.1%	50 - 150		
Thiamethoxam	0.000	0.412	0.390	0.400	5.5%	< 30	103.1%	97.6%	50 - 150		
Trifloxystrobin	0.000	0.399	0.395	0.400	1.0%	< 30	99.7%	98.7%	50 - 150		





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

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Laboratory Control Sample							
Batch ID: 2308456							
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation
CBDVA	2	0.0318	0.0316	%	101	80.0 - 120	Acceptable
CBDV	2	0.0314	0.0315	%	99.5	80.0 - 120	Acceptable
CBE	2	0.0346	0.0348	%	99.4	80.0 - 120	Acceptable
CBDA	1	0.0346	0.0324	%	107	90.0 - 110	Acceptable
CBGA	1	0.0347	0.0328	%	106	80.0 - 120	Acceptable
CBG	1	0.0361	0.0340	%	106	80.0 - 120	Acceptable
CBD	1	0.0360	0.0343	%	105	90.0 - 110	Acceptable
THCV	2	0.0239	0.0236	%	101	80.0 - 120	Acceptable
Δ8THCV	2	0.0277	0.0279	%	99.2	80.0 - 120	Acceptable
THCVA	2	0.0308	0.0308	%	99.9	80.0 - 120	Acceptable
CBN	1	0.0368	0.0347	%	106	80.0 - 120	Acceptable
exo-THC	2	0.0287	0.0283	%	101	80.0 - 120	Acceptable
Δ9THC	1	0.0348	0.0351	%	99.2	90.0 - 110	Acceptable
Δ8THC	1	0.0429	0.0428	%	100	90.0 - 110	Acceptable
9S-Δ10THC	1	0.0258	0.0246	%	105	80.0 - 120	Acceptable
CBL	2	0.0325	0.0311	%	104	80.0 - 120	Acceptable
9R-Δ10THC	1	0.0342	0.0330	%	104	80.0 - 120	Acceptable
CBC	2	0.0284	0.0293	%	97.1	80.0 - 120	Acceptable
THCA	1	0.0348	0.0332	%	105	90.0 - 110	Acceptable
CBCA	2	0.0320	0.0320	%	100	80.0 - 120	Acceptable
CBLA	2	0.0302	0.0302	%	100.0	80.0 - 120	Acceptable
Δ9THCP	2	0.0351	0.0326	%	108	80.0 - 120	Acceptable
CBT	2	0.0318	0.0326	%	97.6	80.0 - 120	Acceptable
Method Blank							
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBDV	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBE	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBDA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBGA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBG	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBD	<LOQ	0.00333	%	< 0.00333	Acceptable		
THCV	<LOQ	0.00333	%	< 0.00333	Acceptable		
Δ8THCV	<LOQ	0.00333	%	< 0.00333	Acceptable		
THCVA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBN	<LOQ	0.00333	%	< 0.00333	Acceptable		
exo-THC	<LOQ	0.00333	%	< 0.00333	Acceptable		
Δ9THC	<LOQ	0.00333	%	< 0.00333	Acceptable		
Δ8THC	<LOQ	0.00333	%	< 0.00333	Acceptable		
9S-Δ10THC	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBL	<LOQ	0.00333	%	< 0.00333	Acceptable		
9R-Δ10THC	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBC	<LOQ	0.00333	%	< 0.00333	Acceptable		
THCA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBCA	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBLA	<LOQ	0.00333	%	< 0.00333	Acceptable		
Δ9THCP	<LOQ	0.00333	%	< 0.00333	Acceptable		
CBT	<LOQ	0.00333	%	< 0.00333	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:** 23-007270/D015.R000  
**Report Date:** 06/26/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2521082  
**Received:** 06/19/23 16:51

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2308456						
Sample Duplicate		Sample ID: 23-007270-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBE	0.00512	0.00508	0.00328	%	0.733	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBD	0.186	0.186	0.00328	%	0.168	< 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	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
d9THC	0.00489	0.00413	0.00328	%	16.9	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00328	%	NA	< 20	Acceptable	
CBC	0.00749	0.00746	0.00328	%	0.378	< 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	0.00549	0.00555	0.00328	%	1.21	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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

**Laboratory Quality Control Results**

Residual Solvents				Batch ID: 2308495					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		517	584	µg/g	88.5	60 - 120	
Isobutane	ND	< 200		659	767	µg/g	85.9	60 - 120	
Butane	ND	< 200		640	782	µg/g	81.8	60 - 120	
2,2-Dimethylpropane	ND	< 200		799	939	µg/g	85.1	60 - 120	
Methanol	ND	< 200		1380	1640	µg/g	84.1	60 - 120	
Ethylene Oxide	ND	< 30		50.7	57.1	µg/g	88.8	60 - 120	
2-Methylbutane	ND	< 200		1350	1600	µg/g	84.4	60 - 120	
Pentane	ND	< 200		1410	1620	µg/g	87.0	60 - 120	
Ethanol	ND	< 200		1460	1610	µg/g	90.7	70 - 130	
Ethyl Ether	ND	< 200		1450	1610	µg/g	90.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		149	168	µg/g	88.7	60 - 120	
Acetone	ND	< 200		1380	1620	µg/g	85.2	60 - 120	
2-Propanol	ND	< 200		1410	1600	µg/g	88.1	60 - 120	
Acetonitrile	ND	< 100		408	484	µg/g	84.3	60 - 120	
2,3-Dimethylbutane	ND	< 30		151	162	µg/g	93.2	60 - 120	
Dichloromethane	ND	< 60		449	483	µg/g	93.0	60 - 120	
2-Methylpentane	ND	< 30		137	174	µg/g	78.7	60 - 120	
3-Methylpentane	ND	< 30		153	168	µg/g	91.1	60 - 120	
Hexane	ND	< 30		143	168	µg/g	85.1	60 - 120	
Ethyl acetate	ND	< 200		1440	1600	µg/g	90.0	60 - 120	
2-Butanol	ND	< 200		1380	1600	µg/g	86.3	60 - 120	
Tetrahydrofuran	ND	< 100		434	514	µg/g	84.4	60 - 120	
Cyclohexane	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
Benzene	ND	< 1		3.8	5.12	µg/g	74.2	60 - 120	
Isopropyl Acetate	ND	< 200		1430	1620	µg/g	88.3	60 - 120	
Heptane	ND	< 200		1400	1610	µg/g	87.0	60 - 120	
1,4-Dioxane	ND	< 100		392	493	µg/g	79.5	60 - 120	
2-Ethoxyethanol	ND	< 30		125	163	µg/g	76.7	60 - 120	
Ethylene Glycol	ND	< 200		416	483	µg/g	86.1	60 - 120	
Toluene	ND	< 100		425	493	µg/g	86.2	60 - 120	
Ethylbenzene	ND	< 200		820	969	µg/g	84.6	60 - 120	
m,p-Xylene	ND	< 200		759	968	µg/g	78.4	60 - 120	
o-Xylene	ND	< 200		814	976	µg/g	83.4	60 - 120	
Cumene	ND	< 30		124	162	µg/g	76.5	60 - 120	



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

QC - Sample Duplicate		Sample ID: 23-007298-0001						
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	55800	52300	200	µg/g	6.5	< 20	Acceptable	E
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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	1230	1100	200	µg/g	11.2	< 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	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	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	

**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

E - Analyte concentration exceeds the calibration range, results are estimated.



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



**Report Number:** 23-007270/D015.R000  
**Report Date:** 06/26/2023  
**ORELAP#:** OR100028  
**Purchase Order:** 2521082  
**Received:** 06/19/23 16:51





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.