

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.SLP25

BATCH # 221406

PRODUCT NAME Cannabinoid Sleep Gummies **SERVING SIZE** 2 Gummies (10g)

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10⁻³ kg = 10³ mg = 10⁶ µg
1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	37.70 mg/serving	3.77 mg/g	0.38 %
Total THC (d9-THC, THCA)	1.47 mg/serving	0.15 mg/g	0.01 %
Cannabigerol (CBG)	12.80 mg/serving	1.28 mg/g	0.13 %
Cannabinol (CBN)	11.20 mg/serving	1.12 mg/g	0.11 %
Cannabichromene (CBC)	1.57 mg/serving	0.16 mg/g	0.02 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	1.47 mg/serving	0.15 mg/g	0.01 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[1]

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol	<LOQ	50,000 mg/day
Heptane	<LOQ	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.

2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.



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



Report Number: 22-007277/D002.R000
Report Date: 06/28/2022
ORELAP#: OR100028
Purchase Order:
Received: 06/21/22 14:51

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.SLP25-221406
Client/Metric ID: .
Laboratory ID: 22-007277-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g†	0.157		mg/1g		CBD-Total per 1g 3.77 mg/1g
CBD per 1g	3.77		mg/1g		
CBE per 1g†	0.0320		mg/1g		THC-Total per 1g 0.147 mg/1g
CBG per 1g†	1.28		mg/1g		
CBN per 1g	1.12		mg/1g		(Reported in milligrams per serving)
CBT per 1g†	0.0698		mg/1g		
Δ9-THC per 1g	0.147		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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Received: 06/21/22 14:51

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

Product identity: FORM-GMY.SLP25-221406

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-007277-0001

Evidence of Cooling: No

Temp: 23.4 °C

Relinquished by: Client

Serving Size #1: 1 g

Sample Results

Potency per 1g					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2205450 Analyze: 6/27/22 12:03:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	0.157		mg/1g	0.0313	
CBC-A per 1g†	< LOQ		mg/1g	0.0313	
CBC-Total per 1g†	0.157		mg/1g	0.0587	
CBD per 1g	3.77		mg/1g	0.0313	
CBD-A per 1g	< LOQ		mg/1g	0.0313	
CBD-Total per 1g	3.77		mg/1g	0.0587	
CBDV per 1g†	< LOQ		mg/1g	0.0313	
CBDV-A per 1g†	< LOQ		mg/1g	0.0313	
CBDV-Total per 1g†	< LOQ		mg/1g	0.0584	
CBE per 1g†	0.0320		mg/1g	0.0313	
CBG per 1g†	1.28		mg/1g	0.0313	
CBG-A per 1g†	< LOQ		mg/1g	0.0313	
CBG-Total per 1g†	1.28		mg/1g	0.0584	
CBL per 1g†	< LOQ		mg/1g	0.0313	
CBL-A per 1g†	< LOQ		mg/1g	0.0313	
CBL-Total per 1g†	< LOQ		mg/1g	0.0587	
CBN per 1g	1.12		mg/1g	0.0313	
CBT per 1g†	0.0698		mg/1g	0.0313	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0313	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0313	
Δ9-THC per 1g	0.147		mg/1g	0.0313	
exo-THC per 1g†	< LOQ		mg/1g	0.0313	
THC-A per 1g	< LOQ		mg/1g	0.0313	
THC-Total per 1g	0.147		mg/1g	0.0587	
THCV per 1g†	< LOQ		mg/1g	0.0313	
THCV-A per 1g†	< LOQ		mg/1g	0.0313	
THCV-Total per 1g†	< LOQ		mg/1g	0.0587	
Total Cannabinoids per 1g	6.58		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2205298	06/24/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2205298	06/24/22	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2205299	06/25/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2205299	06/25/22	AOAC 2014.05 (RAPID)	X	

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2205452 Analyze 06/27/22 12:14 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 ^l	< 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) Units mg/kg Batch 2205426 Analyze 06/27/22 08:50 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifentazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobotrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0165	2205485	06/27/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0165	2205485	06/27/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0165	2205485	06/27/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00826	2205485	06/27/22	AOAC 2013.06 (mod.)	pass	X	



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These test results are representative of the individual sample selected and submitted by the client.

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.

† = Analyte not NELAP accredited.

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

X: Not ORELAP accredited.

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

Field ID		Date/Time Collected		Analysis Requested										Matrix		Weight		Serving size for edibles		Comments/Metric ID	
				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						
FORM-GMY.SLP25-221406				X		X	X				X	X	X			Edible			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: 23.9°C
							Shipped Via: <i>overnight</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
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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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2205426				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.075	1.000	107.5	50.0	150
Acephate	0.001	< 0.250		0.983	1.000	98.3	60.0	120
Acequinocyl	0.000	< 1.000		3.541	4.000	88.5	40.0	160
Acetamiprid	0.000	< 0.100		0.406	0.400	101.5	60.0	120
Aldicarb	0.000	< 0.200		0.801	0.800	100.1	60.0	120
Azoxystrobin	0.000	< 0.100		0.423	0.400	105.8	60.0	120
Bifenazate	0.000	< 0.100		0.403	0.400	100.8	60.0	120
Bifenthrin	0.000	< 0.100		0.389	0.400	97.2	50.0	150
Boscalid	0.000	< 0.200		0.799	0.800	99.8	60.0	120
Carbaryl	0.000	< 0.100		0.401	0.400	100.3	60.0	120
Carbofuran	0.000	< 0.100		0.410	0.400	102.4	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.405	0.400	101.2	60.0	120
Chlorfenapyr	0.000	< 0.500		2.180	2.000	109.0	60.0	120
Chlorpyrifos	0.000	< 0.100		0.432	0.400	107.9	60.0	120
Clofentazine	0.000	< 0.100		0.151	0.400	37.8	60.0	120
Cyfluthrin	0.000	< 0.500		2.113	2.000	105.6	50.0	150
Cypermethrin	0.000	< 0.500		2.131	2.000	106.6	50.0	150
Daminozide	0.000	< 0.500		0.737	2.000	36.8	60.0	120
Diazinon	0.000	< 0.100		0.419	0.400	104.7	60.0	120
Dichlorvos	0.000	< 0.500		2.240	2.000	112.0	60.0	120
Dimethoate	0.000	< 0.100		0.401	0.400	100.2	60.0	120
Ethoprophos	0.000	< 0.100		0.431	0.400	107.7	60.0	120
Etofenprox	0.000	< 0.200		0.850	0.800	106.2	50.0	150
Etoxazole	0.000	< 0.100		0.456	0.400	114.1	60.0	120
Fenoxycarb	0.000	< 0.100		0.410	0.400	102.4	60.0	120
Fenpyroximate	0.000	< 0.200		0.891	0.800	111.4	60.0	120
Fipronil	0.000	< 0.200		0.864	0.800	108.0	60.0	120
Fonicamid	0.000	< 0.250		1.033	1.000	103.3	60.0	120
Fludioxonil	0.000	< 0.200		0.820	0.800	102.5	50.0	150
Hexythiazox	0.000	< 0.250		1.053	1.000	105.3	60.0	120
Imazalil	0.000	< 0.100		0.386	0.400	96.5	60.0	120
Imidacloprid	0.000	< 0.200		0.846	0.800	105.8	60.0	120
Kresoxim methyl	0.000	< 0.200		0.803	0.800	100.4	60.0	120
Malathion	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Metlaxyl	0.000	< 0.100		0.393	0.400	98.3	60.0	120
Methiocarb	0.000	< 0.100		0.403	0.400	100.7	60.0	120
Methomyl	0.000	< 0.200		0.758	0.800	94.8	60.0	120
MGK 264	0.000	< 0.100		0.411	0.400	102.8	50.0	150
Myclobutanil	0.000	< 0.100		0.405	0.400	101.3	60.0	120
Naled	0.000	< 0.250		0.300	1.000	30.0	50.0	150
Oxamyl	0.000	< 0.500		1.775	2.000	88.7	60.0	120
Paclotrazole	0.000	< 0.200		0.777	0.800	97.1	60.0	120
Parathion Methyl	0.000	< 0.200		0.778	0.800	97.3	50.0	150
Permethrin	0.000	< 0.100		0.427	0.400	106.8	50.0	150
Phosmet	0.000	< 0.100		0.385	0.400	96.2	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.124	2.000	106.2	60.0	120
Prallethrin	0.000	< 0.100		0.416	0.400	103.9	60.0	120
Propiconazole	0.000	< 0.200		0.743	0.800	92.9	60.0	120
Propoxur	0.000	< 0.100		0.401	0.400	100.2	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.421	0.413	101.9	60.0	120
Pyridaben	0.000	< 0.100		0.442	0.400	110.6	50.0	150
Spirosad	0.000	< 0.100		0.470	0.388	121.0	50.0	150
Spiromesifen	0.000	< 0.100		0.463	0.400	115.7	60.0	120
Spirotetramat	0.000	< 0.100		0.407	0.400	101.8	60.0	120
Spiroxamine	0.000	< 0.200		0.793	0.800	99.1	60.0	120
ebuconazole	0.000	< 0.200		0.802	0.800	100.2	60.0	120
hiacloprid	0.000	< 0.100		0.400	0.400	100.1	60.0	120
hiamethoxam	0.000	< 0.100		0.404	0.400	101.0	60.0	120
rifloxystrobin	0.000	< 0.100		0.413	0.400	103.3	60.0	120



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2205426				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 22-007327-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	1.413	1.506	1.000	6.4%	< 30	141.3%	150.6%	50 150	Q	
Acephate	0.002	1.048	1.055	1.000	0.7%	< 30	104.6%	105.3%	50 150		
Acetaminocyl	0.000	7.534	7.485	4.000	0.7%	< 30	188.4%	187.1%	50 150	Q	
Acetamidrid	0.002	0.519	0.523	0.400	0.7%	< 30	129.2%	130.2%	50 150		
Aldicarb	0.000	0.935	0.937	0.800	0.2%	< 30	116.8%	117.1%	50 150		
Azoxystrobin	0.001	0.563	0.571	0.400	1.6%	< 30	140.3%	142.5%	50 150		
Bifenazate	0.000	0.480	0.488	0.400	1.6%	< 30	120.0%	122.0%	50 150		
Bifenthrin	0.000	0.945	0.928	0.400	1.8%	< 30	236.3%	232.1%	50 150	Q	
Boscalid	0.000	1.063	1.083	0.800	1.8%	< 30	132.9%	135.4%	50 150		
Carbaryl	0.000	0.508	0.510	0.400	0.4%	< 30	127.0%	127.5%	50 150		
Carbofuran	0.000	0.567	0.585	0.400	3.1%	< 30	141.8%	146.3%	50 150		
Chlorantraniliprole	0.000	0.459	0.465	0.400	1.3%	< 30	114.7%	116.2%	50 150		
Chlorfenapyr	0.000	4.833	4.708	2.000	2.6%	< 30	241.7%	235.4%	50 150	Q	
Chlorpyrifos	0.000	0.587	0.608	0.400	3.6%	< 30	146.6%	152.0%	50 150	Q	
Clofentezine	0.000	0.240	0.243	0.400	1.2%	< 30	60.1%	60.8%	50 150		
Cyfluthrin	0.000	2.672	2.765	2.000	3.4%	< 30	133.6%	138.3%	30 150		
Cypermethrin	0.000	3.137	3.159	2.000	0.7%	< 30	156.8%	158.0%	50 150	Q	
Daminozide	0.037	0.809	0.833	2.000	3.1%	< 30	38.6%	39.8%	30 150		
Diazinon	0.000	0.482	0.482	0.400	0.1%	< 30	120.4%	120.5%	50 150		
Dichlorvos	0.000	2.320	2.314	2.000	0.3%	< 30	116.0%	115.7%	50 150		
Dimethoate	0.000	0.497	0.500	0.400	0.8%	< 30	124.2%	125.1%	50 150		
Ethoprophos	0.000	0.500	0.514	0.400	2.7%	< 30	125.0%	128.5%	50 150		
Etofenprox	0.000	1.755	1.786	0.800	1.8%	< 30	219.3%	223.2%	50 150	Q	
Etoxazole	0.000	0.817	0.849	0.400	3.8%	< 30	204.2%	212.2%	50 150	Q	
Fenoxycarb	0.000	0.446	0.457	0.400	2.6%	< 30	111.4%	114.3%	50 150		
Fenpyroximate	0.000	1.187	1.191	0.800	0.4%	< 30	148.3%	148.9%	50 150		
Fipronil	0.000	1.094	1.078	0.800	1.4%	< 30	136.7%	134.8%	50 150		
Fonicamid	0.000	0.990	0.959	1.000	3.1%	< 30	99.0%	95.9%	50 150		
Fludioxonil	0.000	0.799	0.830	0.800	3.9%	< 30	99.8%	103.8%	50 150		
Hexythiazox	0.000	1.911	1.953	1.000	2.2%	< 30	191.1%	195.3%	50 150	Q	
Imazalil	0.000	0.539	0.567	0.400	5.2%	< 30	134.6%	141.8%	50 150		
Imidacloprid	0.000	0.796	0.809	0.800	1.5%	< 30	99.6%	101.1%	50 150		
Kresoxim methyl	0.025	0.909	0.989	0.800	8.7%	< 30	110.4%	120.4%	50 150		
Malathion	0.000	0.527	0.539	0.400	2.1%	< 30	131.8%	134.7%	50 150		
Metaxalyl	0.000	0.489	0.504	0.400	2.9%	< 30	122.3%	125.9%	50 150		
Methiocarb	0.000	0.456	0.464	0.400	1.8%	< 30	113.9%	116.0%	50 150		
Methomyl	0.000	0.777	0.754	0.800	3.0%	< 30	97.1%	94.2%	50 150		
MGK 264	0.000	0.422	0.438	0.400	3.7%	< 30	105.5%	109.5%	50 150		
Myclobutanil	0.000	0.504	0.522	0.400	3.5%	< 30	126.1%	130.6%	50 150		
Naled	0.000	1.221	1.242	1.000	1.7%	< 30	122.1%	124.2%	50 150		
Oxamyl	0.000	1.862	1.874	2.000	0.7%	< 30	93.1%	93.7%	50 150		
Pacllobutrazole	0.000	0.944	0.991	0.800	4.9%	< 30	118.0%	123.9%	50 150		
Parathion Methyl	0.000	0.924	1.043	0.800	12.1%	< 30	115.5%	130.4%	30 150		
Permethrin	0.000	0.639	0.632	0.400	1.2%	< 30	159.8%	157.9%	50 150	Q	
Phosmet	0.000	0.500	0.515	0.400	2.9%	< 30	125.0%	128.7%	50 150		
Piperonyl butoxide	0.000	2.650	2.634	2.000	0.6%	< 30	132.5%	131.7%	50 150		
Prallethrin	0.000	0.371	0.379	0.400	2.1%	< 30	92.7%	94.7%	50 150		
Propiconazole	0.000	0.973	0.994	0.800	2.1%	< 30	121.6%	124.2%	50 150		
Propoxur	0.000	0.517	0.514	0.400	0.6%	< 30	129.3%	128.6%	50 150		
Pyrethrin (Summe)	0.000	0.591	0.603	0.413	2.0%	< 30	143.0%	145.9%	50 150		
Pyridaben	0.000	0.772	0.778	0.400	0.9%	< 30	192.9%	194.6%	50 150	Q	
Spinosad	0.000	0.633	0.640	0.388	1.1%	< 30	163.3%	165.0%	50 150	Q	
Spiromesifen	0.000	0.836	0.859	0.400	2.7%	< 30	209.1%	214.8%	50 150	Q	
Spirotetramat	0.000	0.432	0.445	0.400	3.1%	< 30	107.9%	111.3%	50 150		
Spiroxamine	0.000	0.925	0.951	0.800	2.8%	< 30	115.6%	118.9%	50 150		
ebuconazole	0.000	0.972	0.983	0.800	1.1%	< 30	121.5%	122.8%	50 150		
hiacloprid	0.000	0.522	0.525	0.400	0.5%	< 30	130.5%	131.2%	50 150		
hiamethoxam	0.000	0.403	0.381	0.400	5.5%	< 30	100.6%	95.2%	50 150		
rifloxystrobin	0.000	0.659	0.664	0.400	0.7%	< 30	164.7%	165.9%	50 150	Q	



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Received: 06/21/22 14:51

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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2205450

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	1	0.0357	0.033	%	107	80.0	- 120	Acceptable		
CBDV	1	0.0386	0.033	%	116	80.0	- 120	Acceptable		
CBE	1	0.0357	0.033	%	107	80.0	- 120	Acceptable		
CBDA	1	0.0345	0.033	%	104	90.0	- 110	Acceptable		
CBGA	1	0.0340	0.033	%	102	80.0	- 120	Acceptable		
CBG	1	0.0337	0.033	%	101	80.0	- 120	Acceptable		
CBD	1	0.0365	0.033	%	109	90.0	- 110	Acceptable		
THCV	1	0.0354	0.033	%	106	80.0	- 120	Acceptable		
d8THCV	1	0.0369	0.033	%	111	80.0	- 120	Acceptable		
THCVA	1	0.0355	0.033	%	107	80.0	- 120	Acceptable		
CBN	1	0.0345	0.033	%	103	90.0	- 110	Acceptable		
exo-THC	1	0.0331	0.033	%	99.3	80.0	- 120	Acceptable		
d9THC	1	0.0337	0.033	%	101	90.0	- 110	Acceptable		
d8THC	1	0.0338	0.033	%	102	80.0	- 120	Acceptable		
CBL	1	0.0329	0.033	%	98.6	80.0	- 120	Acceptable		
CBC	1	0.0367	0.033	%	110	80.0	- 120	Acceptable		
THCA	1	0.0347	0.033	%	104	90.0	- 110	Acceptable		
CBCA	1	0.0370	0.033	%	111	80.0	- 120	Acceptable		
CBLA	1	0.0342	0.033	%	103	80.0	- 120	Acceptable		
CBT	1	0.0323	0.033	%	96.9	80.0	- 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<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	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	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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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2205450						
Sample Duplicate		Sample ID: 22-003319-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0078	0.0078	0.003	%	0.148	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV	0.0033	0.0032	0.003	%	1.01	< 20	Acceptable	
d8THCV	<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	
d9THC	0.245	0.245	0.003	%	0.156	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0044	0.0043	0.003	%	1.87	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<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:

% - Percent



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2205452					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		421	572	µg/g	73.6	60	120
Isobutane	ND	< 200		567	731	µg/g	77.6	60	120
Butane	ND	< 200		546	731	µg/g	74.7	60	120
2,2 Dimethylpropane	ND	< 200		643	936	µg/g	68.7	60	120
Methanol	ND	< 200		1160	1650	µg/g	70.3	60	120
Ethylene Oxide	ND	< 30		47.4	56.2	µg/g	84.3	60	120
2 Methylbutane	ND	< 200		1110	1620	µg/g	68.5	60	120
Pentane	ND	< 200		1110	1610	µg/g	68.9	60	120
Ethanol	ND	< 200		1100	1620	µg/g	67.9	70	130
Ethyl Ether	ND	< 200		1130	1600	µg/g	70.6	60	120
2,2 Dimethylbutane	ND	< 30		120	167	µg/g	71.9	60	120
Acetone	ND	< 200		1160	1620	µg/g	71.6	60	120
2 Propanol	ND	< 200		1120	1610	µg/g	69.6	60	120
Acetonitrile	ND	< 100		430	635	µg/g	67.7	60	120
2,3 Dimethylbutane	ND	< 30		108	177	µg/g	61.0	60	120
Dichloromethane	ND	< 60		398	498	µg/g	79.9	60	120
2 Methylpentane	ND	< 30		108	166	µg/g	65.1	60	120
3 Methylpentane	ND	< 30		124	175	µg/g	70.9	60	120
Hexane	ND	< 30		125	174	µg/g	71.8	60	120
Ethyl acetate	ND	< 200		1120	1610	µg/g	69.6	60	120
2 Butanol	ND	< 200		1070	1620	µg/g	66.0	60	120
tetrahydrofuran	ND	< 100		350	507	µg/g	69.0	60	120
Cyclohexane	ND	< 200		1180	1610	µg/g	73.3	60	120
Benzene	ND	< 1		3.63	5.22	µg/g	69.5	60	120
Isopropyl Acetate	ND	< 200		1120	1610	µg/g	69.6	60	120
Heptane	ND	< 200		1090	1610	µg/g	67.7	60	120
1,4 Dioxane	ND	< 100		365	508	µg/g	71.9	60	120
2 Ethoxyethanol	ND	< 30		113	165	µg/g	68.5	60	120
Ethylene Glycol	ND	< 200		359	492	µg/g	73.0	60	120
oluene	ND	< 100		365	497	µg/g	73.4	60	120
Ethylbenzene	ND	< 200		724	980	µg/g	73.9	60	120
m,p Xylene	ND	< 200		727	985	µg/g	73.8	60	120
o Xylene	ND	< 200		714	965	µg/g	74.0	60	120
Cumene	ND	< 30		122	168	µg/g	72.6	60	120



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QC - Sample Duplicate Sample ID: 22-007247-0001

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	
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	ND	ND	200	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	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
oluene	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



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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.