

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU		GMY.IMM25		BATCH #		210911		LOQ: Limit Of Quantitation	
PRODUCT NAME		Elderberry Lychee Immunity CBD gummy		SERVING SIZE		2 gummies (~ 10.0 g)		LOD: Limit Of Detection	
LABORATORY:		Columbia Laboratories		OREGON ACCREDITATION:		OR100028		1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
POTENCY		PER SERVING		PER GRAM		Percent			
Cannabidiol (CBD)		70.8	mg/serving	7.08	mg/g	0.708		%	
Total THC (d9-THC, THCA)		2.24	mg/serving	0.224	mg/g	0.0224		%	
Cannabigerol (CBG)		0.889	mg/serving	0.0889	mg/g	0.00889		%	
Cannabinol (CBN)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ		%	
Cannabichromene (CBC)		2.44	mg/serving	0.244	mg/g	0.0244		%	
Tetrahydrocannabinolic Acid (THCA)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ		%	
Delta-9-THC (d9-THC)		2.24	mg/serving	0.224	mg/g	0.0224		%	
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		237	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.

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: 21-013599/D004.R000
Report Date: 11/24/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Customer: Etz Hayim Holdings
Product identity: FORM-211112-GMY.IMM25
Client/Metric ID: .
Laboratory ID: 21-013599-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g†	0.244		mg/1g		CBD Total per 1g 7.08 mg/1g
CBD per 1g	7.08		mg/1g		
CBE per 1g†	0.0710		mg/1g		THC-Total per 1g 0.224 mg/1g
CBG per 1g†	0.0889		mg/1g		
CBT per 1g†	0.183		mg/1g		(Reported in milligrams per serving)
Δ9 THC per 1g	0.224		mg/1g		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol†	237		

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: 11/24/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)
Product identity: FORM-211112-GMY.IMM25
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-013599-0002
Evidence of Cooling: No
Temp: 17.3 °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: 2110521 Analyze: 11/19/21 4:29:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	0.244		mg/1g	0.0320	
CBC-A per 1g†	< LOQ		mg/1g	0.160	
CBC-Total per 1g†	0.244		mg/1g	0.0601	
CBD per 1g	7.08		mg/1g	0.0320	
CBD-A per 1g	< LOQ		mg/1g	0.160	
CBD-Total per 1g	7.08		mg/1g	0.0601	
CBDV per 1g†	< LOQ		mg/1g	0.160	
CBDV-A per 1g†	< LOQ		mg/1g	0.160	
CBDV-Total per 1g†	< LOQ		mg/1g	0.299	
CBE per 1g†	0.0710		mg/1g	0.0320	
CBG per 1g†	0.0889		mg/1g	0.0320	
CBG-A per 1g†	< LOQ		mg/1g	0.160	
CBG-Total per 1g†	0.0889		mg/1g	0.0597	
CBL per 1g†	< LOQ		mg/1g	0.160	
CBL-A per 1g†	< LOQ		mg/1g	0.160	
CBL-Total per 1g†	< LOQ		mg/1g	0.300	
CBN per 1g	< LOQ		mg/1g	0.160	
CBT per 1g†	0.183		mg/1g	0.0320	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.160	
Δ8-THC per 1g†	< LOQ		mg/1g	0.160	
Δ9-THC per 1g	0.224		mg/1g	0.0320	
exo-THC per 1g†	< LOQ		mg/1g	0.160	
THC-A per 1g	< LOQ		mg/1g	0.160	
THC-Total per 1g	0.224		mg/1g	0.0601	
THCV per 1g†	< LOQ		mg/1g	0.160	
THCV-A per 1g†	< LOQ		mg/1g	0.160	
THCV-Total per 1g†	< LOQ		mg/1g	0.300	
Total Cannabinoids per 1g	7.89		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2110451	11/21/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2110451	11/21/21	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2110452	11/22/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2110452	11/22/21	AOAC 2014.05 (RAPID)		X

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch 2110517	Analyze 11/22/21 08:36 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†	237		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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Received: 11/17/21 14:45

Pesticides										
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2110497 Analyze 11/19/21 04:15 PM										
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
Bifenazate	< 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		Flonicamid	< 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		Paclobutrazole	< 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	Analyte	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.00911	2110573	11/23/21	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.00911	2110573	11/23/21	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.00911	2110573	11/23/21	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00455	2110573	11/23/21	AOAC 2013.06 (mod.)	pass	X	



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Portland, OR 97230
503-254-1794



Report Number: 21-013599/D004.R000
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Received: 11/17/21 14:45

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 = Gram

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



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



Report Number: 21-013599/D004.R000
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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Comp		Analysis Requested												Purchase Order Number:			
Contact		Please run all tests in parallel												Project Number:			
Address														Project Name:			
Email														☐ Report Instructions: ☐ Send to State - METRC ☒ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30			
Phone														Other:			
Processor's License:																	
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/Metric ID
FORM-211112-GMY.SLP25	10/29 900			X										gummy			Laz Nat Discount
FORM-211112-GMY.SLP25	10/29 900								X	X				gummy			
FORM-211112-GMY.SLP25	10/29 900	X			X						X			gummy			
FORM-211112-GMY.IMM25	10/29 900			X										gummy			
FORM-211112-GMY.IMM25	10/29 900								X	X				gummy			
FORM-211112-GMY.IMM25	10/29 900	X			X						X			gummy			

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
☒ Standard (5 day)							Client Alias:
☐ Rush (3-4 day) (1.5x Standard)							Order Number:
☒ Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 17.3°C
							Shipped Via: Air
							Evidence of cooling: ☐ Yes ☒ 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
Effective 01/31/2019 Revised 01/31/2019

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Portland, OR 97230
503-254-1794



Report Number: 21-013599/D004.R000
Report Date: 11/24/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/17/21 14:45

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2110497				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Accephate	0.022	< 0.250		1.048	1.000	104.8	71.7 - 133	
Acequinocyl	0.000	< 1.000		3.869	4.000	96.7	73.3 - 136	
Acetamiprid	0.000	< 0.100		0.448	0.400	112.1	74.8 - 139	
Aldicarb	0.000	< 0.200		0.827	0.800	103.4	86.8 - 161	
Abamectin	0.000	< 0.250		1.075	1.000	107.5	76.9 - 143	
Azoxystrobin	0.000	< 0.100		0.413	0.400	103.3	72.4 - 135	
Bifenazate	0.066	< 0.100		0.531	0.400	132.9	74.6 - 139	
Bifenthrin	0.000	< 0.100		0.379	0.400	94.6	72.0 - 134	
Boscalid	0.000	< 0.200		0.838	0.800	104.8	75.2 - 140	
Carbaryl	0.000	< 0.100		0.428	0.400	107.1	74.5 - 138	
Carbofuran	0.000	< 0.100		0.353	0.400	88.4	74.4 - 138	
Chlorantraniliprol	0.000	< 0.100		0.372	0.400	93.1	70.7 - 131	
Chlorfenapyr	0.000	< 0.500		2.572	2.000	128.6	73.6 - 137	
Chlorpyrifos	0.000	< 0.100		0.446	0.400	111.5	71.0 - 132	
Clofentezine	0.000	< 0.100		0.324	0.400	80.9	42.3 - 78.5	Q1
Cyfluthrin	0.000	< 0.500		1.840	2.000	92.0	79.2 - 147	
Cypermethrin	0.000	< 0.500		1.953	2.000	97.7	77.3 - 144	
Daminozide	0.114	< 0.500		0.875	2.000	43.7	27.1 - 50.3	
Diazinon	0.000	< 0.100		0.488	0.400	122.1	75.7 - 141	
Dichlorvos	0.000	< 0.500		2.363	2.000	118.1	81.3 - 151	
Dimethoat	0.000	< 0.100		0.453	0.400	113.3	73.5 - 137	
Ethoprophos	0.000	< 0.100		0.469	0.400	117.2	74.4 - 138	
Etofenprox	0.000	< 0.200		0.904	0.800	113.0	72.8 - 135	
Etoxazol	0.000	< 0.100		0.426	0.400	106.5	87.6 - 163	
Fenoxycarb	0.000	< 0.100		0.406	0.400	101.6	73.6 - 137	
Fenpyroximat	0.000	< 0.200		0.832	0.800	104.0	72.5 - 135	
Fipronil	0.000	< 0.200		0.846	0.800	105.8	73.7 - 137	
Flonicamid	0.000	< 0.250		1.149	1.000	114.9	75.7 - 141	
Fludioxonil	0.000	< 0.200		1.117	0.800	139.6	75.4 - 140	
Hexythiazox	0.000	< 0.250		1.102	1.000	110.2	70.7 - 131	
Imazalil	0.000	< 0.100		0.362	0.400	90.6	72.6 - 135	
Imidacloprid	0.000	< 0.200		0.814	0.800	101.7	74.6 - 139	
Kresoxim-Methyl	0.000	< 0.200		0.826	0.800	103.2	74.4 - 138	
Malathion	0.000	< 0.100		0.405	0.400	101.1	74.0 - 137	
Metaxalyl	0.013	< 0.100		0.412	0.400	102.9	74.2 - 138	
Methiocarb	0.039	< 0.100		0.447	0.400	111.8	74.8 - 139	
Methomyl	0.000	< 0.200		0.824	0.800	103.0	72.3 - 134	
MKG 264	0.000	< 0.100		0.473	0.400	118.2	75.8 - 141	
Myclobutanil	0.000	< 0.100		0.430	0.400	107.5	73.8 - 137	
Naled	0.000	< 0.250		0.513	1.000	51.3	38.4 - 71.4	
Oxamyl	0.000	< 0.500		2.103	2.000	105.2	73.4 - 136	
Paclobutrazol	0.000	< 0.200		0.849	0.800	106.2	74.5 - 138	
Parathion Methyl	0.000	< 0.200		0.973	0.800	121.7	72.4 - 134	
Permethrin	0.000	< 0.100		0.403	0.400	100.7	74.7 - 139	
Phosmet	0.000	< 0.100		0.436	0.400	109.1	74.0 - 138	
Piperonyl butoxide	0.034	< 0.500		2.398	2.000	119.9	74.8 - 139	
Prallethrin	0.004	< 0.100		0.410	0.400	102.5	72.6 - 135	
Propiconazole	0.148	< 0.200		0.862	0.800	107.8	75.4 - 140	
Propoxur	0.031	< 0.100		0.400	0.400	100.0	73.5 - 137	
Pyrethrins	0.041	< 0.100		0.357	0.413	86.3	72.8 - 135	
Pyridaben	0.000	< 0.100		0.431	0.400	107.6	76.2 - 142	
Spinosad	0.000	< 0.100		0.431	0.388	111.2	75.7 - 141	
Spiromesifen	0.000	< 0.100		0.450	0.400	112.5	75.2 - 140	
Spirotetramat	0.000	< 0.100		0.441	0.400	110.1	72.6 - 135	
Spiroxamine	0.000	< 0.200		0.901	0.800	112.6	72.7 - 135	
Tebuconazol	0.000	< 0.200		0.854	0.800	106.8	74.0 - 137	
Thiadoprid	0.000	< 0.100		0.440	0.400	110.1	74.2 - 138	
Thiamethoxam	0.000	< 0.100		0.446	0.400	111.4	74.1 - 138	
Trifloxystrobin	0.000	< 0.100		0.475	0.400	118.6	73.5 - 136	



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503-254-1794



Report Number: 21-013599/D004.R000
Report Date: 11/24/2021
ORELAP#: OR100028
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Received: 11/17/21 14:45

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 Units: mg/Kg Batch ID: 2110497										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 21-013521-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.015	0.973	0.959	1.000	1.4%	< 30	95.7%	94.4%	50 - 150	
Acequinocyl	0.000	5.985	6.124	4.000	2.3%	< 30	149.6%	153.1%	50 - 150	Q1
Acetamiprid	0.000	0.478	0.466	0.400	2.6%	< 30	119.5%	116.4%	50 - 150	
Aldicarb	0.000	1.206	0.869	0.800	32.5%	< 30	150.7%	108.7%	50 - 150	R, Q1
Abamectin	0.000	1.176	1.160	1.000	1.3%	< 30	117.6%	116.0%	50 - 150	
Azoxystrobin	0.023	0.494	0.500	0.400	1.3%	< 30	117.7%	119.2%	50 - 150	
Bifenazate	0.000	0.502	0.512	0.400	1.9%	< 30	125.4%	127.9%	50 - 150	
Bifenthrin	0.000	0.645	0.625	0.400	3.1%	< 30	161.2%	156.3%	50 - 150	Q1
Boscalid	0.000	0.947	0.972	0.800	2.6%	< 30	118.3%	121.5%	50 - 150	
Carbaryl	0.000	0.489	0.487	0.400	0.4%	< 30	122.2%	121.7%	50 - 150	
Carbofuran	0.000	0.430	0.490	0.400	13.1%	< 30	107.4%	122.5%	50 - 150	
Chlorantraniliprol	0.000	0.389	0.396	0.400	1.9%	< 30	97.2%	99.0%	50 - 150	
Chlorfenapyr	0.000	3.044	3.276	2.000	7.3%	< 30	152.2%	163.8%	50 - 150	Q1
Chlorpyrifos	0.000	0.889	0.877	0.400	1.4%	< 30	222.3%	219.2%	50 - 150	Q1
Clofentezine	0.000	0.046	0.048	0.400	3.2%	< 30	11.6%	12.0%	50 - 150	Q
Cyfluthrin	0.000	2.334	2.697	2.000	14.4%	< 30	116.7%	134.9%	30 - 150	
Cypermethrin	0.000	2.433	2.812	2.000	14.5%	< 30	121.6%	140.6%	50 - 150	
Daminozide	0.000	0.670	0.681	2.000	1.6%	< 30	33.5%	34.0%	30 - 150	
Diazinon	0.000	0.489	0.471	0.400	3.7%	< 30	122.2%	117.7%	50 - 150	
Dichlorvos	0.000	2.406	2.479	2.000	3.0%	< 30	120.3%	124.0%	50 - 150	
Dimethoat	0.000	0.459	0.471	0.400	2.5%	< 30	114.8%	117.7%	50 - 150	
Ethoprophos	0.000	0.513	0.474	0.400	8.0%	< 30	128.3%	118.5%	50 - 150	
Etofenprox	0.000	1.415	0.875	0.800	47.1%	< 30	176.9%	109.4%	50 - 150	R, Q1
Etoxazol	0.000	0.663	0.678	0.400	2.2%	< 30	165.9%	169.5%	50 - 150	Q1
Fenoxycarb	0.000	0.443	0.433	0.400	2.2%	< 30	110.6%	108.2%	50 - 150	
Fenpyroximat	0.000	1.031	1.129	0.800	9.0%	< 30	128.9%	141.1%	50 - 150	
Fipronil	0.000	1.409	1.544	0.800	9.1%	< 30	176.2%	193.0%	50 - 150	Q1
Flonicamid	0.000	1.116	1.084	1.000	2.9%	< 30	111.6%	108.4%	50 - 150	
Fludioxonil	0.000	0.839	0.917	0.800	8.9%	< 30	104.9%	114.7%	50 - 150	
Hexythiazox	0.000	1.742	1.426	1.000	19.9%	< 30	174.2%	142.6%	50 - 150	Q1
Imazalil	0.000	0.393	0.399	0.400	1.5%	< 30	98.3%	99.7%	50 - 150	
Imidacloprid	0.000	0.926	0.932	0.800	0.7%	< 30	115.7%	116.5%	50 - 150	
Kresoxim-Methyl	0.000	0.964	0.921	0.800	4.6%	< 30	120.5%	115.1%	50 - 150	
Malathion	0.000	0.509	0.498	0.400	2.2%	< 30	127.3%	124.5%	50 - 150	
Metaxalyl	0.000	0.452	0.468	0.400	3.4%	< 30	112.9%	116.9%	50 - 150	
Methiocarb	0.000	0.475	0.490	0.400	3.1%	< 30	118.7%	122.5%	50 - 150	
Methomyl	0.000	0.890	0.867	0.800	2.6%	< 30	111.3%	108.4%	50 - 150	
MKG 264	0.000	0.450	0.455	0.400	1.0%	< 30	112.5%	113.7%	50 - 150	
Myclobutanil	0.000	0.491	0.477	0.400	3.0%	< 30	122.8%	119.3%	50 - 150	
Naled	0.000	1.058	1.145	1.000	7.9%	< 30	105.8%	114.5%	50 - 150	
Oxamyl	0.000	2.233	2.013	2.000	10.4%	< 30	111.7%	100.6%	50 - 150	
Paclobutrazol	0.000	0.961	0.927	0.800	3.6%	< 30	120.1%	115.9%	50 - 150	
Parathion Methyl	0.000	1.292	1.367	0.800	5.7%	< 30	161.5%	170.9%	30 - 150	Q1
Permethrin	0.000	0.464	0.519	0.400	11.2%	< 30	116.1%	129.8%	50 - 150	
Phosmet	0.000	0.489	0.461	0.400	5.9%	< 30	122.3%	115.3%	50 - 150	
Piperonyl butoxide	0.000	3.258	3.500	2.000	7.2%	< 30	162.9%	175.0%	50 - 150	Q1
Prallethrin	0.000	0.317	0.331	0.400	4.3%	< 30	79.2%	82.7%	50 - 150	
Propiconazole	0.000	1.050	1.017	0.800	3.2%	< 30	131.2%	127.1%	50 - 150	
Propoxur	0.028	0.462	0.464	0.400	0.5%	< 30	108.6%	109.1%	50 - 150	
Pyrethrins	0.000	0.406	0.384	0.413	5.6%	< 30	98.2%	92.9%	50 - 150	
Pyridaben	0.000	0.571	0.677	0.400	16.9%	< 30	142.8%	169.1%	50 - 150	Q1
Spinosad	0.000	0.708	0.569	0.388	21.7%	< 30	182.6%	146.8%	50 - 150	Q1
Spiromesifen	0.000	0.674	0.627	0.400	7.3%	< 30	168.5%	156.7%	50 - 150	Q1
Spirotetramat	0.000	0.410	0.384	0.400	6.6%	< 30	102.6%	96.0%	50 - 150	
Spiroxamine	0.000	0.933	0.887	0.800	5.1%	< 30	116.7%	110.9%	50 - 150	
Tebuconazol	0.000	1.077	1.092	0.800	1.4%	< 30	134.6%	136.5%	50 - 150	
Thiadoprid	0.000	0.499	0.484	0.400	3.1%	< 30	124.7%	121.0%	50 - 150	
Thiamethoxam	0.000	0.435	0.392	0.400	10.6%	< 30	108.8%	97.9%	50 - 150	
Trifloxystrobin	0.000	0.498	0.529	0.400	6.0%	< 30	124.5%	132.2%	50 - 150	



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Revision Document ID
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Laboratory Quality Control Results									
Batch ID: 2 05 7									
Residual Solvents				Laboratory Control Sample					
Method Blank	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Analyte									
Propane	ND	200		865	9.8	µg/g	9.2	0	0
Isobutane	ND	200		90	260	µg/g	9	0	0
Butane	ND	200		90	260	µg/g	9	0	0
2,2-Dimethylpropane	ND	200		5.0	600	µg/g	9	0	0
Methanol	ND	200		290	6.0	µg/g	80	0	0
Ethylene Oxide	ND	30		93	95	µg/g	9.9	0	0
2-Methylbutane	ND	200		2.0	6.0	µg/g	5.2	0	0
Pentane	ND	200		2.0	6.0	µg/g	5.2	0	0
Ethanol	ND	200		2.0	6.0	µg/g	8.9	0	0
Ethyl Ether	ND	200		60	6.0	µg/g	2.0	0	0
2,2-Dimethylbutane	ND	30		2	6	µg/g	5.6	0	0
Acetone	ND	200		2.0	6.0	µg/g	0	0	0
2-Propanol	ND	200		320	6.0	µg/g	82.0	0	0
Acetonitrile	ND	00		39	8	µg/g	8	0	0
2,3-Dimethylbutane	ND	30		39	6	µg/g	83.2	0	0
Dichloromethane	ND	60		36	9	µg/g	0	0	0
2-Methylpentane	ND	30		2	65	µg/g	0	0	0
3-Methylpentane	ND	30		2	2	µg/g	3.8	0	0
Hexane	ND	30		23	6	µg/g	3	0	0
Ethyl acetate	ND	200		220	6.0	µg/g	5.8	0	0
2-Butanol	ND	200		2.0	6.0	µg/g	8.9	0	0
Tetrahydrofuran	ND	00		366	83	µg/g	5.8	0	0
Cyclohexane	ND	200		220	6.0	µg/g	5.8	0	0
Benzene	ND				5.36	µg/g	6	0	0
Isopropyl Acetate	ND	200		3.0	620	µg/g	8.6	0	0
Heptane	ND	200		320	6.0	µg/g	82.0	0	0
Dioxane	ND	00		358	88	µg/g	3.2	0	0
2-Ethoxyethanol	ND	30		30	6	µg/g	8	0	0
Ethylene Glycol	ND	200		38	50	µg/g	6.8	0	0
o-Xylene	ND	200		35	8	µg/g	3	0	0
Ethyl benzene	ND	200		05	68	µg/g	2.8	0	0
m,p-Xylene	ND	200			9	µg/g	5.8	0	0
o-Xylene	ND	200		28	98.2	µg/g	0	0	0
Cumene	ND	30		22	69	µg/g	2.2	0	0



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QC Sample Duplicate				Sample ID: 21 013634 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	
Ethyl ene Ox ide	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	00 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	10 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	
Dioxane	ND	ND	00 µg/g	0.0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30 µg/g	0.0	20	Acceptable	
Ethyl ene Glycol	ND	ND	200 µg/g	0.0	20	Acceptable	
o xene	ND	ND	200 µg/g	0.0	20	Acceptable	
Ethyl benzene	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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Report Number: 21-013599/D004.R000
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Revision # 0 00 Con rol CFL D06
Revision Da e 05/31/2019 Effec ive Da e 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6

Batch ID: 2110521

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00978	0.01	%	97.8	85.0 - 115	Acceptable	
CBDV	0.00971	0.01	%	97.1	85.0 - 115	Acceptable	
CBE	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBD A	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBGA	0.00968	0.01	%	96.8	85.0 - 115	Acceptable	
CBG	0.00980	0.01	%	98.0	85.0 - 115	Acceptable	
CBD	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
THCV	0.00942	0.01	%	94.2	85.0 - 115	Acceptable	
d8THCV	0.00975	0.01	%	97.5	85.0 - 115	Acceptable	
THCVA	0.00922	0.01	%	92.2	85.0 - 115	Acceptable	
CBN	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
exo-THC	0.00905	0.01	%	90.5	85.0 - 115	Acceptable	
d9THC	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
d8THC	0.00906	0.01	%	90.6	85.0 - 115	Acceptable	
CBL	0.00897	0.01	%	89.7	85.0 - 115	Acceptable	
CBC	0.00937	0.01	%	93.7	85.0 - 115	Acceptable	
THCA	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBCA	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
CBLA	0.00977	0.01	%	97.7	85.0 - 115	Acceptable	
CBT	0.00878	0.01	%	87.8	85.0 - 115	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	
CBD A	<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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Report Number: 21-013599/D004.R000
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Revision # 0 00 Con rol CFL D06
Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6						Batch ID: 2110521		
Sample Duplicate						Sample ID 21-013526-0001		
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	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.129	0.130	0.003	%	0.849	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 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	0.0620	0.0625	0.003	%	0.858	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<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	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent



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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.