

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.RLX25	BATCH # 221903	LOQ: Limit Of Quantitation LOD: Limit Of Detection 1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
PRODUCT NAME CBD Calm Gummies	SERVING SIZE 2 gummies (~10 g)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	63.50 mg/serving	6.35 mg/g	0.635 %
Total THC (d9-THC, THCA)	2.56 mg/serving	0.256 mg/g	0.0256 %
Cannabigerol (CBG)	1.72 mg/serving	0.172 mg/g	0.0172 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	2.21 mg/serving	0.221 mg/g	0.0221 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	2.56 mg/serving	0.256 mg/g	0.0256 %
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: 22-004252/D002.R000
Report Date: 04/21/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/14/22 14:28

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.RLX25-221903
Client/Metric ID: .
Laboratory ID: 22-004252-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g†	0.221		mg/1g		CBD-Total per 1g 6.35 mg/1g
CBD per 1g	6.35		mg/1g		
CBE per 1g†	0.0864		mg/1g		THC-Total per 1g 0.256 mg/1g
CBG per 1g†	0.172		mg/1g		
CBT per 1g†	0.0846		mg/1g		(Reported in milligrams per serving)
Δ9-THC per 1g	0.256		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: 04/14/22 14:28

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

Product identity: FORM-GMY.RLX25-221903

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-004252-0001

Evidence of Cooling: No

Temp: 26.1 °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: 2203283 Analyze: 4/15/22 9:43:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g [†]	0.221		mg/1g	0.0313	
CBC-A per 1g [†]	< LOQ		mg/1g	0.0313	
CBC-Total per 1g [†]	0.221		mg/1g	0.0587	
CBD per 1g	6.35		mg/1g	0.0313	
CBD-A per 1g	< LOQ		mg/1g	0.0313	
CBD-Total per 1g	6.35		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 [†]	0.0864		mg/1g	0.0313	
CBG per 1g [†]	0.172		mg/1g	0.0313	
CBG-A per 1g [†]	< LOQ		mg/1g	0.0313	
CBG-Total per 1g [†]	0.172		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	< LOQ		mg/1g	0.0313	
CBT per 1g [†]	0.0846		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	0.256		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	0.256		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	7.17		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2203228	04/17/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2203228	04/17/22	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2203229	04/18/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2203229	04/18/22	AOAC 2014.05 (RAPID)	X	

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2203380 Analyze 04/20/22 11:40 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-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 2203367 Analyze 04/20/22 09:27 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		Etoazole	< 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	0.0166	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0166	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0166	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00831	2203266	04/16/22	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						
[Redacted]																				
Form 61MY RLX25-	221903	4/14	815A	X		X	X												LazNat Discount	
Form 61MY RLX25-	221903	4/14	815A						X	X										

Purchase Order Number:
Project Number:
Project Name:

 Report Instructions:
 Send to State - METRC
 Email Final Results:
 Fax Final Results
 Cash/Check/CC/Net 30
 Other:

Collected By:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	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 <input checked="" type="checkbox"/>
							Sample Condition <input checked="" type="checkbox"/>
							Temperature: 26.1
							Shipped Via: Courier
							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

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



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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2203283							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDA	0.0344	0.033	%	103	80.0	- 120	Acceptable		
CBV	0.0364	0.033	%	109	80.0	- 120	Acceptable		
CBE	0.0344	0.033	%	103	80.0	- 120	Acceptable		
CBDA	0.0339	0.033	%	102	90.0	- 110	Acceptable		
CBGA	0.0327	0.033	%	98.2	80.0	- 120	Acceptable		
CBG	0.0323	0.033	%	96.9	80.0	- 120	Acceptable		
CB	0.0334	0.033	%	100	90.0	- 110	Acceptable		
THCV	0.0346	0.033	%	104	80.0	- 120	Acceptable		
d8THCV	0.0333	0.033	%	99.8	80.0	- 120	Acceptable		
THCA	0.0329	0.033	%	98.6	80.0	- 120	Acceptable		
CBN	0.0330	0.033	%	99.0	90.0	- 110	Acceptable		
exo-THC	0.0309	0.033	%	92.8	80.0	- 120	Acceptable		
d9THC	0.0331	0.033	%	99.2	90.0	- 110	Acceptable		
d8THC	0.0293	0.033	%	87.9	80.0	- 120	Acceptable		
CB	0.0294	0.033	%	88.3	80.0	- 120	Acceptable		
CB	0.0323	0.033	%	96.8	80.0	- 120	Acceptable		
THCA	0.0331	0.033	%	99.4	90.0	- 110	Acceptable		
CBGA	0.0332	0.033	%	99.7	80.0	- 120	Acceptable		
CBDA	0.0326	0.033	%	97.9	80.0	- 120	Acceptable		
CB	0.0322	0.033	%	96.7	80.0	- 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBV	< 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	
CB	< LOQ	0.003	%	< 0.003	Acceptable	
THCV	< LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBN	< LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable	
d9THC	< LOQ	0.003	%	< 0.003	Acceptable	
d8THC	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

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

Units of Measure

% - Percent



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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2203283						
Sample Duplicate		Sample ID: 22-003906-0005-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00382	0.00387	0.003	%	1.30	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CB	1.51	1.52	0.003	%	0.599	< 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	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CB	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBF	< 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 Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2203367			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		1.029	1.00	102.9	50.0 150	
Acephate	0.00	< 0.250		1.058	1.00	105.8	60.0 120	
Acetamiprid	0.00	< 1.000		3.743	4.00	93.6	40.0 160	
Acetamiprid	0.00	< 0.100		0.422	0.40	105.6	60.0 120	
Aldicarb	0.00	< 0.200		0.831	0.80	103.9	60.0 120	
Azoxystrobin	0.00	< 0.100		0.421	0.40	105.4	60.0 120	
Bifenazate	0.00	< 0.100		0.411	0.40	102.6	60.0 120	
Bifenthrin	0.00	< 0.100		0.413	0.40	103.3	50.0 150	
Boscalid	0.00	< 0.200		0.850	0.80	106.2	60.0 120	
Carbaryl	0.00	< 0.100		0.425	0.40	106.2	60.0 120	
Carbendazim	0.00	< 0.100		0.422	0.40	105.5	60.0 120	
Chlorantraniliprole	0.00	< 0.100		0.400	0.40	100.0	60.0 120	
Chlorfenapyr	0.00	< 0.500		2.151	2.00	107.5	60.0 120	
Chlorpyrifos	0.00	< 0.100		0.425	0.40	106.3	60.0 120	
Clofentezine	0.00	< 0.100		0.154	0.40	38.4	60.0 120	Q6
Cyfluthrin	0.00	< 0.500		2.043	2.00	102.1	50.0 150	
Cypermethrin	0.00	< 0.500		2.032	2.00	101.6	50.0 150	
Daminozide	0.00	< 0.500		0.769	2.00	38.5	60.0 120	Q6
Diazinon	0.00	< 0.100		0.412	0.40	103.0	60.0 120	
Dichlorvos	0.00	< 0.500		2.330	2.00	116.5	60.0 120	
Dimethoate	0.00	< 0.100		0.433	0.40	108.2	60.0 120	
Ethionphos	0.00	< 0.100		0.431	0.40	107.8	60.0 120	
Etofenprox	0.00	< 0.200		0.815	0.80	101.9	50.0 150	
Etoxazole	0.00	< 0.100		0.404	0.40	101.0	60.0 120	
Fenoxycarb	0.00	< 0.100		0.405	0.40	101.2	60.0 120	
Fenproximate	0.00	< 0.200		0.832	0.80	104.0	60.0 120	
Fipronil	0.00	< 0.200		0.836	0.80	104.5	60.0 120	
Fonicamid	0.00	< 0.250		1.021	1.00	102.1	60.0 120	
Fludioxonil	0.00	< 0.200		0.849	0.80	106.2	50.0 150	
Hexythiazox	0.00	< 0.250		0.980	1.00	98.0	60.0 120	
Imazalil	0.00	< 0.100		0.409	0.40	102.2	60.0 120	
Imidacloprid	0.00	< 0.200		0.794	0.80	99.2	60.0 120	
Kiesoxim-methyl	0.00	< 0.200		0.849	0.80	106.1	60.0 120	
Malathion	0.00	< 0.100		0.406	0.40	101.4	60.0 120	
Metaxyl	0.00	< 0.100		0.407	0.40	101.7	60.0 120	
Methiocarb	0.00	< 0.100		0.413	0.40	103.3	60.0 120	
Methomyl	0.00	< 0.200		0.901	0.80	112.6	60.0 120	
MCK-264	0.00	< 0.100		0.400	0.40	100.0	50.0 150	
Mydobutanol	0.00	< 0.100		0.406	0.40	101.5	60.0 120	
Naled	0.00	< 0.250		0.498	1.00	49.8	50.0 150	Q6
Oxamyl	0.00	< 0.500		2.208	2.00	110.2	60.0 120	
Padobutrazole	0.00	< 0.200		0.825	0.80	103.1	60.0 120	
Parathion-Methyl	0.00	< 0.200		0.778	0.80	97.3	50.0 150	
Permethrin	0.00	< 0.100		0.411	0.40	102.6	50.0 150	
Phosmet	0.00	< 0.100		0.413	0.40	103.2	50.0 150	
Piperonyl butoxide	0.00	< 0.500		2.052	2.00	102.6	60.0 120	
Prallethrin	0.00	< 0.100		0.391	0.40	97.8	60.0 120	
Propiconazole	0.00	< 0.200		0.766	0.80	95.7	60.0 120	
Propoxur	0.00	< 0.100		0.428	0.40	107.1	60.0 120	
Pyrethrin (Summe)	0.00	< 0.100		0.400	0.413	96.8	60.0 120	
Pyridaben	0.00	< 0.100		0.400	0.40	99.9	50.0 150	
Spinosad	0.00	< 0.100		0.420	0.388	108.3	50.0 150	
Spiromesfen	0.00	< 0.100		0.408	0.40	102.1	60.0 120	
Spirotetramat	0.00	< 0.100		0.400	0.40	100.0	60.0 120	
Spiroxamine	0.00	< 0.200		0.807	0.80	100.9	60.0 120	
Tebuconazole	0.00	< 0.200		0.809	0.80	101.2	60.0 120	
Thiadoprid	0.00	< 0.100		0.421	0.40	105.2	60.0 120	
Thiamethoxam	0.00	< 0.100		0.446	0.40	111.6	60.0 120	
Trifloxystrobin	0.00	< 0.100		0.416	0.40	104.1	60.0 120	



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2203367			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.754	0.771	1.00	2.1%	< 30	75.4%	77.1%	50 - 150	
Acephate	0.00	1.205	1.193	1.00	1.1%	< 30	120.5%	119.3%	50 - 150	
Acetamiprid	0.00	0.498	0.503	0.400	0.9%	< 30	124.5%	125.6%	50 - 150	
Aldicarb	0.00	0.921	0.934	0.800	1.4%	< 30	115.1%	116.8%	50 - 150	
Azoxystrobin	0.00	0.514	0.529	0.400	3.0%	< 30	128.1%	132.0%	50 - 150	
Bifenazate	0.00	0.449	0.476	0.400	5.8%	< 30	112.3%	118.9%	50 - 150	
Bifenthrin	0.00	0.671	0.686	0.400	2.2%	< 30	167.8%	171.5%	50 - 150	Q
Boscalid	0.00	0.956	0.989	0.800	3.4%	< 30	119.5%	123.6%	50 - 150	
Carbaryl	0.00	0.516	0.514	0.400	0.5%	< 30	129.1%	128.4%	50 - 150	
Carbofuran	0.00	0.557	0.570	0.400	2.3%	< 30	139.3%	142.6%	50 - 150	
Chlorantraniliprole	0.00	0.376	0.383	0.400	1.9%	< 30	93.9%	95.7%	50 - 150	
Chlorfenapyr	0.00	3.052	2.776	2.000	9.5%	< 30	152.6%	138.8%	50 - 150	Q
Chlorpyrifos	0.00	0.622	0.670	0.400	7.5%	< 30	155.4%	167.6%	50 - 150	Q
Clofentezine	0.00	0.280	0.361	0.400	25.1%	< 30	70.1%	90.2%	50 - 150	
Cyfluthrin	0.00	1.538	1.530	2.000	0.5%	< 30	76.9%	76.3%	30 - 150	
Cypermethrin	0.00	1.834	1.874	2.000	2.2%	< 30	91.7%	93.7%	50 - 150	
Daminozide	0.061	1.180	1.211	2.000	2.8%	< 30	55.9%	57.5%	30 - 150	
Diazinon	0.00	0.428	0.449	0.400	4.8%	< 30	106.9%	112.2%	50 - 150	
Dichlorvos	0.00	2.475	2.535	2.000	2.5%	< 30	123.7%	126.8%	50 - 150	
Dimethoate	0.00	0.531	0.533	0.400	0.4%	< 30	132.7%	133.2%	50 - 150	
Ethioniazole	0.00	0.468	0.487	0.400	4.0%	< 30	116.9%	121.7%	50 - 150	
Etofenprox	0.00	1.291	1.343	0.800	3.9%	< 30	161.3%	167.8%	50 - 150	Q
Etoxazole	0.00	0.615	0.675	0.400	9.3%	< 30	153.7%	168.7%	50 - 150	Q
Fenoxycarb	0.00	0.419	0.431	0.400	2.9%	< 30	104.7%	107.8%	50 - 150	
Fenpyroximate	0.00	1.020	1.049	0.800	2.8%	< 30	127.5%	131.1%	50 - 150	
Fipronil	0.00	1.033	1.054	0.800	2.0%	< 30	129.1%	131.7%	50 - 150	
Fonicamid	0.00	0.908	0.907	1.000	0.0%	< 30	90.8%	90.7%	50 - 150	
Fludioxonil	0.00	0.664	0.704	0.800	5.8%	< 30	83.0%	88.0%	50 - 150	
Hexythiazox	0.00	1.630	1.684	1.000	3.3%	< 30	163.0%	168.4%	50 - 150	Q
Imazalil	0.00	0.488	0.527	0.400	7.7%	< 30	121.9%	131.7%	50 - 150	
Imidacloprid	0.00	0.642	0.665	0.800	3.5%	< 30	80.2%	83.1%	50 - 150	
Kiesoxim-methyl	0.00	0.973	1.017	0.800	4.4%	< 30	121.7%	127.1%	50 - 150	
Malathion	0.00	0.529	0.551	0.400	4.1%	< 30	132.2%	137.7%	50 - 150	
Metaxyl	0.00	0.480	0.496	0.400	3.4%	< 30	120.0%	124.1%	50 - 150	
Methiocarb	0.00	0.447	0.464	0.400	3.8%	< 30	111.7%	116.0%	50 - 150	
Methomyl	0.00	0.718	0.758	0.800	5.4%	< 30	89.8%	94.8%	50 - 150	
MCK-264	0.00	0.399	0.370	0.400	2.9%	< 30	89.8%	92.5%	50 - 150	
Mydobutani	0.00	0.435	0.474	0.400	8.6%	< 30	108.7%	118.5%	50 - 150	
Naled	0.00	1.194	1.207	1.000	1.1%	< 30	119.4%	120.7%	50 - 150	
Oxamyl	0.00	1.984	1.979	2.000	0.2%	< 30	99.2%	99.0%	50 - 150	
Padobutrazole	0.00	1.127	1.179	0.800	4.5%	< 30	140.9%	147.4%	50 - 150	
Parathion-Methyl	0.00	0.990	1.021	0.800	3.1%	< 30	123.8%	127.7%	30 - 150	
Permethrin	0.00	0.411	0.436	0.400	5.8%	< 30	102.8%	108.9%	50 - 150	
Phosmet	0.00	0.498	0.505	0.400	2.4%	< 30	123.2%	126.2%	50 - 150	
Piperonyl butoxide	0.00	2.301	2.455	2.000	6.5%	< 30	115.0%	122.8%	50 - 150	
Prallethrin	0.00	0.323	0.339	0.400	4.8%	< 30	80.8%	84.8%	50 - 150	
Propiconazole	0.00	1.030	1.090	0.800	5.6%	< 30	128.8%	136.3%	50 - 150	
Propoxur	0.00	0.529	0.541	0.400	2.3%	< 30	132.1%	135.2%	50 - 150	
Pyrethrin (Summe)	0.00	0.514	0.534	0.413	3.9%	< 30	124.3%	129.3%	50 - 150	
Pyridaben	0.00	0.667	0.676	0.400	1.4%	< 30	166.7%	169.1%	50 - 150	Q
Spinosad	0.00	0.503	0.509	0.388	1.3%	< 30	129.5%	131.3%	50 - 150	
Spiromesfen	0.00	0.693	0.697	0.400	0.6%	< 30	173.2%	174.3%	50 - 150	Q
Spirotetramat	0.00	0.440	0.455	0.400	3.4%	< 30	109.9%	113.7%	50 - 150	
Spiroxamine	0.00	0.910	0.943	0.800	3.6%	< 30	113.7%	117.9%	50 - 150	
Tebuconazole	0.00	1.072	1.136	0.800	5.8%	< 30	134.0%	141.9%	50 - 150	
Thiadoprid	0.00	0.503	0.519	0.400	3.2%	< 30	125.7%	129.8%	50 - 150	
Thiamethoxam	0.00	0.375	0.431	0.400	13.9%	< 30	93.7%	107.7%	50 - 150	
Trifloxystrobin	0.00	0.511	0.515	0.400	1.0%	< 30	127.6%	128.9%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents		Batch ID		2203380					
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		498	572	µg/g	87.1	60 - 120	
Isobutane	ND	< 200		723	731	µg/g	98.9	60 - 120	
Butane	ND	< 200		740	731	µg/g	101.2	60 - 120	
2,2-Dimethylpropane	ND	< 200		888	936	µg/g	95.0	60 - 120	
Methanol	ND	< 200		1460	1620	µg/g	90.1	60 - 120	
Ethylene Oxide	ND	< 30		57.8	56.2	µg/g	102.8	60 - 120	
2-Methylbutane	ND	< 200		1520	1620	µg/g	93.8	60 - 120	
Pentane	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
Ethanol	ND	< 200		1550	1630	µg/g	95.1	70 - 130	
Ethyl Ether	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		160	174	µg/g	92.0	60 - 120	
Acetone	ND	< 200		1480	1650	µg/g	89.7	60 - 120	
2-Propanol	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
Ethyl Formate	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
Acetonitrile	ND	< 100		453	498	µg/g	91.0	60 - 120	
Methyl Acetate	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		164	176	µg/g	93.2	60 - 120	
Dichloromethane	ND	< 60		467	510	µg/g	91.6	60 - 120	
2-Methylpentane	ND	< 30		157	170	µg/g	89.2	60 - 120	
MTBE	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
3-Methylpentane	ND	< 30		156	175	µg/g	89.1	60 - 120	
Hexane	ND	< 30		155	177	µg/g	89.8	60 - 120	
1-Propanol	ND	< 500		1540	1610	µg/g	95.7	70 - 130	
Methyl ethyl ketone	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
Ethyl acetate	ND	< 200		1450	1630	µg/g	89.0	60 - 120	
2-Butanol	ND	< 200		1390	1620	µg/g	85.8	60 - 120	
Tetrahydrofuran	ND	< 100		430	500	µg/g	86.0	60 - 120	
Cyclohexane	ND	< 200		1390	1620	µg/g	85.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1440	1620	µg/g	88.9	70 - 130	
Benzene	ND	< 1		4.38	5.32	µg/g	82.0	60 - 120	
Isopropyl Acetate	ND	< 200		1380	1620	µg/g	85.2	60 - 120	
Heptane	ND	< 200		1380	1770	µg/g	78.0	60 - 120	
1-Butanol	ND	< 500		1250	1600	µg/g	78.1	70 - 130	
Propyl Acetate	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
1,4-Dioxane	ND	< 100		388	504	µg/g	79.0	60 - 120	
2-Ethoxyethanol	ND	< 30		150	181	µg/g	82.9	60 - 120	
Methylisobutylketone	ND	< 500		1350	1610	µg/g	83.9	70 - 130	
3-Methyl-1-butanol	ND	< 500		1270	1610	µg/g	78.9	70 - 130	
Ethylene Glycol	ND	< 200		402	494	µg/g	81.4	60 - 120	
Toluene	ND	< 200		400	491	µg/g	81.5	60 - 120	
Isobutyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
1-Pentanol	ND	< 500		1360	1610	µg/g	84.5	70 - 130	
Butyl Acetate	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
Ethyl benzene	ND	< 200		759	973	µg/g	78.0	60 - 120	
m p-Xylene	ND	< 200		759	996	µg/g	76.2	60 - 120	
o-Xylene	ND	< 200		747	973	µg/g	76.8	60 - 120	
Cumene	ND	< 30		129	170	µg/g	75.9	60 - 120	
Anisole	ND	< 500		1190	1610	µg/g	73.9	70 - 130	
DMSO	ND	< 500		1480	1630	µg/g	90.8	70 - 130	
1,2-dimethoxyethane	ND	< 50		148	164	µg/g	90.2	70 - 130	
Tetrahydrofuran	ND	< 500		1260	1600	µg/g	78.8	70 - 130	
N,N-dimethylformamide	ND	< 150		409	497	µg/g	82.3	70 - 130	
N,N-dimethylacetamide	ND	< 150		417	498	µg/g	83.7	70 - 130	
Pyridine	ND	< 50		158	180	µg/g	87.8	70 - 130	
1,2-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0	70 - 130	
Chloroform	ND	< 1		1.04	1	µg/g	104.0	70 - 130	
Tetrachloroethylene	ND	< 1		0.99	1	µg/g	99.7	70 - 130	



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OC - Sample Duplicate Sample ID 22-004049-0001

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	3300	3430	200	µg/g	3.9	< 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	
MEE	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	200	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-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	
Tetrahydrofuran	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	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Tetrachloroethylene	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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Report Number: 22-004252/D002.R000
Report Date: 04/21/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/14/22 14:28





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.