

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	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)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day ^[1]
Cadmium	µg/serving	µg/g	4.1 µg/day ^[1]
Lead	µg/serving	µg/g	6 µg/day ^[1]
Mercury	µg/serving	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*	µg/g	50,000 mg/day	
Heptane	µg/g	50,000 mg/day	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.



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



Report Number: 23-009993/D003.R000
Report Date: 08/29/2023
ORELAP#: OR100028
Purchase Order: 2606818
Received: 08/22/23 13:36

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.RLX25-FH36
Client/Metric ID: .
Laboratory ID: 23-009993-0004

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.224		mg/1g		CBD-Total per Serving Size 5.66 mg/1g
CBD per 1g	5.66		mg/1g		
CBDV per 1g	0.0869		mg/1g		THC-Total per Serving Size 0.336 mg/1g
CBE per 1g	0.0635		mg/1g		(Reported in milligrams per serving)
CBG per 1g	0.0655		mg/1g		
CBT per 1g	0.124		mg/1g		
Δ9-THC per 1g	0.336		mg/1g		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	374		

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: 08/22/23 13:36

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

Product identity: FORM-GMY.RLX25-FH36

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-009993-0004

Evidence of Cooling: No

Temp: 23.2 °C

Serving Size #1: 1 g

Sample Results

Potency per 1g		Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2310357	Analyze: 8/25/23 12:08:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.224		mg/1g	0.0308	
CBC-A per 1g	< LOQ		mg/1g	0.0308	
CBC-Total per 1g	0.224		mg/1g	0.0578	
CBD per 1g	5.66		mg/1g	0.0308	
CBD-A per 1g	< LOQ		mg/1g	0.0308	
CBD-Total per 1g	5.66		mg/1g	0.0578	
CBDV per 1g	0.0869		mg/1g	0.0308	
CBDV-A per 1g	< LOQ		mg/1g	0.0308	
CBDV-Total per 1g	0.0869		mg/1g	0.0575	
CBE per 1g	0.0635		mg/1g	0.0308	
CBG per 1g	0.0655		mg/1g	0.0308	
CBG-A per 1g	< LOQ		mg/1g	0.0308	
CBG-Total per 1g	0.0655		mg/1g	0.0575	
CBL per 1g	< LOQ		mg/1g	0.0308	
CBL-A per 1g	< LOQ		mg/1g	0.0308	
CBL-Total per 1g	< LOQ		mg/1g	0.0578	
CBN per 1g	< LOQ		mg/1g	0.0308	
CBT per 1g	0.124		mg/1g	0.0308	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0308	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0308	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0308	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0616	
Δ8-THC per 1g	< LOQ		mg/1g	0.0308	
Δ9-THC per 1g	0.336		mg/1g	0.0308	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0308	
exo-THC per 1g	< LOQ		mg/1g	0.0308	
THC-A per 1g	< LOQ		mg/1g	0.0308	
THC-Total per 1g	0.336		mg/1g	0.0578	
THCV per 1g	< LOQ		mg/1g	0.0308	
THCV-A per 1g	< LOQ		mg/1g	0.0308	
THCV-Total per 1g	< LOQ		mg/1g	0.0578	



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)^P **Units mg/se** **Batch:** 2310357 **Analyze:** 8/25/23 12:08:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	6.56		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310308	08/26/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2310308	08/26/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310309	08/26/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310309	08/26/23 AOAC 2014.05 (RAPID) ^P		

Solvents **Method:** Residual Solvents by GC/MS^P **Units µg/g** **Batch** 2310412 **Analyze** 08/28/23 12:22 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethanol	374		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) ^b											
Units mg/kg Batch 2310374 Analyze 08/25/23 02:16 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamidiprid [‡]	< 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		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	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	0.100	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	Analyzed	Method	Status	Notes	
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0159	2310373	08/25/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0159	2310373	08/25/23	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0159	2310373	08/25/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.00794	2310373	08/25/23	AOAC 2013.06 (mod.) ^b	pass		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2310357

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0323	0.0309	%	104	80.0	- 120	Acceptable	
CBDV	2	0.0326	0.0313	%	104	80.0	- 120	Acceptable	
CBE	2	0.0338	0.0329	%	103	80.0	- 120	Acceptable	
CBDA	1	0.0341	0.0338	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0346	0.0343	%	101	80.0	- 120	Acceptable	
CBG	1	0.0365	0.0363	%	100	80.0	- 120	Acceptable	
CBD	1	0.0365	0.0351	%	104	90.0	- 110	Acceptable	
THCV	2	0.0209	0.0200	%	105	80.0	- 120	Acceptable	
d8THCV	2	0.0283	0.0276	%	103	80.0	- 120	Acceptable	
THCVA	2	0.0318	0.0307	%	104	80.0	- 120	Acceptable	
CBN	1	0.0345	0.0343	%	100	80.0	- 120	Acceptable	
exo-THC	2	0.0311	0.0302	%	103	80.0	- 120	Acceptable	
d9THC	1	0.0359	0.0355	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0362	0.0364	%	99.5	90.0	- 110	Acceptable	
9S-d10THC	1	0.0355	0.0354	%	100	80.0	- 120	Acceptable	
CBL	2	0.0331	0.0311	%	106	80.0	- 120	Acceptable	
9R-d10THC	1	0.0112	0.0115	%	97.1	80.0	- 120	Acceptable	
CBC	2	0.0339	0.0335	%	101	80.0	- 120	Acceptable	
THCA	1	0.0344	0.0344	%	100	90.0	- 110	Acceptable	
CBCA	2	0.0334	0.0319	%	105	80.0	- 120	Acceptable	
CBLA	2	0.0674	0.0647	%	104	80.0	- 120	Acceptable	
d9THCP	2	0.0325	0.0316	%	103	80.0	- 120	Acceptable	
CBT	2	0.0316	0.0308	%	103	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDV	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBE	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBGA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBG	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBD	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBN	<LOQ	0.00322	%	< 0.00322	Acceptable	
exo-THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9S-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBL	<LOQ	0.00322	%	< 0.00322	Acceptable	
9R-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBC	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBLA	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THCP	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBT	<LOQ	0.00322	%	< 0.00322	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: 2310357						
Sample Duplicate		Sample ID: 23-009728-0001-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBN	0.00452	0.00450	0.00306	%	0.582	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d9THC	0.238	0.238	0.00306	%	0.0767	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00306	%	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

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2310374			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.927	1.000	92.7	50.0	150
Acephate	0.000	< 0.200		0.766	0.800	95.7	60.0	120
Acequinocyl	0.000	< 1.000		3.661	4.000	91.5	40.0	160
Acetamiprid	0.000	< 0.100		0.403	0.400	100.7	60.0	120
Aldicarb	0.000	< 0.200		0.805	0.800	100.6	60.0	120
Azoxystrobin	0.000	< 0.100		0.395	0.400	98.6	60.0	120
Bifenazate	0.000	< 0.100		0.374	0.400	93.5	60.0	120
Bifenthrin	0.000	< 0.100		0.378	0.400	94.6	50.0	150
Boscalid	0.000	< 0.200		0.730	0.800	91.3	60.0	120
Carbaryl	0.000	< 0.100		0.374	0.400	93.4	60.0	120
Carbofuran	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.396	0.400	99.0	60.0	120
Chlorfenapyr	0.002	< 0.500		1.783	2.000	89.1	60.0	120
Chlorpyrifos	0.000	< 0.100		0.361	0.400	90.4	60.0	120
Clofentazine	0.000	< 0.100		0.352	0.400	88.1	60.0	120
Cyfluthrin	0.000	< 0.500		1.825	2.000	91.3	50.0	150
Cypermethrin	0.000	< 0.500		1.876	2.000	93.8	50.0	150
Daminozide	0.000	< 0.500		0.761	2.000	38.0	60.0	120
Diazinon	0.000	< 0.100		0.390	0.400	97.4	60.0	120
Dichlorvos	0.000	< 0.500		1.830	2.000	91.5	60.0	120
Dimethoate	0.000	< 0.100		0.376	0.400	93.9	60.0	120
Ethoprophos	0.000	< 0.100		0.369	0.400	92.4	60.0	120
Etofenprox	0.000	< 0.200		0.778	0.800	97.3	50.0	150
Etoxazole	0.000	< 0.100		0.410	0.400	102.6	60.0	120
Fenoxycarb	0.000	< 0.100		0.388	0.400	96.9	60.0	120
Fenpyroximate	0.000	< 0.200		0.761	0.800	95.2	60.0	120
Fipronil	0.000	< 0.200		0.758	0.800	94.8	60.0	120
Fonicamid	0.000	< 0.250		0.960	1.000	96.0	60.0	120
Fludioxonil	0.000	< 0.200		0.722	0.800	90.2	50.0	150
Hexythiazox	0.000	< 0.250		0.926	1.000	92.6	60.0	120
Imazalil	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Imidacloprid	0.000	< 0.200		0.758	0.800	94.7	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.737	0.800	92.1	60.0	120
Malathion	0.000	< 0.100		0.365	0.400	91.2	60.0	120
Metaxalyl	0.000	< 0.100		0.384	0.400	95.9	60.0	120
Methiocarb	0.000	< 0.100		0.373	0.400	93.1	60.0	120
Methomyl	0.000	< 0.200		0.825	0.800	103.1	60.0	120
MGK-264	0.000	< 0.100		0.394	0.400	98.6	50.0	150
Myclobutanil	0.000	< 0.100		0.382	0.400	95.5	60.0	120
Naled	0.000	< 0.250		0.946	1.000	94.6	50.0	150
Oxamyl	0.000	< 0.500		1.969	2.000	98.5	60.0	120
Pacllobutrazole	0.000	< 0.200		0.785	0.800	98.1	60.0	120
Parathion-Methyl	0.000	< 0.100		0.327	0.400	81.7	50.0	150
Permethrin	0.000	< 0.100		0.368	0.400	92.0	50.0	150
Phosmet	0.000	< 0.100		0.374	0.400	93.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.112	2.000	105.6	60.0	120
Prallethrin	0.000	< 0.100		0.374	0.400	93.4	60.0	120
Propiconazole	0.000	< 0.200		0.747	0.800	93.3	60.0	120
Propoxur	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.453	0.488	92.8	60.0	120
Pyridaben	0.000	< 0.100		0.380	0.400	94.9	50.0	150
Spirosad	0.000	< 0.100		0.378	0.388	97.5	50.0	150
Spiromesifen	0.000	< 0.100		0.382	0.400	95.5	60.0	120
Spirotetramat	0.000	< 0.100		0.371	0.400	92.6	60.0	120
Spiroxamine	0.000	< 0.200		0.798	0.800	99.7	60.0	120
Tebuconazole	0.000	< 0.200		0.750	0.800	93.8	60.0	120
Thiacloprid	0.000	< 0.100		0.382	0.400	95.6	60.0	120
Thiamethoxam	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Trifloxystrobin	0.000	< 0.100		0.390	0.400	97.5	60.0	120

Q6



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Report Number: 23-009993/D003.R000
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Revision: 3 Document ID: 3120
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2310374			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 23-009994-0004								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.908	0.954	1.000	5.0%	< 30	90.8%	95.4%	50 - 150	
Acephate	0.000	0.763	0.778	0.800	2.0%	< 30	95.3%	97.2%	50 - 150	
Acequinocyl	0.000	3.729	3.689	4.000	1.1%	< 30	93.2%	92.2%	50 - 150	
Acetamiprid	0.000	0.404	0.406	0.400	0.5%	< 30	101.1%	101.6%	50 - 150	
Aldicarb	0.000	0.795	0.809	0.800	1.7%	< 30	99.4%	101.1%	50 - 150	
Azoxystrobin	0.000	0.421	0.345	0.400	19.7%	< 30	105.2%	86.3%	50 - 150	
Bifenazate	0.000	0.375	0.378	0.400	0.7%	< 30	93.8%	94.4%	50 - 150	
Bifenthrin	0.000	0.369	0.367	0.400	0.3%	< 30	92.1%	91.8%	50 - 150	
Boscalid	0.000	0.750	0.769	0.800	2.5%	< 30	93.7%	96.1%	50 - 150	
Carbaryl	0.000	0.378	0.374	0.400	1.1%	< 30	94.5%	93.4%	50 - 150	
Carbofuran	0.000	0.389	0.395	0.400	1.5%	< 30	97.3%	98.8%	50 - 150	
Chlorantraniliprole	0.000	0.379	0.377	0.400	0.6%	< 30	94.8%	94.2%	50 - 150	
Chlorfenapyr	0.000	2.037	1.944	2.000	4.7%	< 30	101.8%	97.2%	50 - 150	
Chlorpyrifos	0.000	0.353	0.355	0.400	0.6%	< 30	88.3%	88.8%	50 - 150	
Clofentezine	0.000	0.295	0.297	0.400	0.7%	< 30	73.7%	74.3%	50 - 150	
Cyfluthrin	0.000	1.737	1.776	2.000	2.2%	< 30	86.8%	88.8%	30 - 150	
Cypermethrin	0.000	1.733	1.746	2.000	0.7%	< 30	86.7%	87.3%	50 - 150	
Daminozide	0.000	0.719	0.745	2.000	3.5%	< 30	36.0%	37.3%	30 - 150	
Diazinon	0.000	0.381	0.385	0.400	0.9%	< 30	95.3%	96.2%	50 - 150	
Dichlorvos	0.000	1.884	1.886	2.000	0.1%	< 30	94.2%	94.3%	50 - 150	
Dimethoate	0.000	0.385	0.391	0.400	1.7%	< 30	96.2%	97.8%	50 - 150	
Ethoprophos	0.000	0.385	0.386	0.400	0.2%	< 30	96.2%	96.4%	50 - 150	
Etofenprox	0.000	0.777	0.772	0.800	0.7%	< 30	97.1%	96.5%	50 - 150	
Etoxazole	0.000	0.406	0.403	0.400	0.9%	< 30	101.6%	100.7%	50 - 150	
Fenoxycarb	0.000	0.376	0.380	0.400	1.2%	< 30	94.0%	95.1%	50 - 150	
Fenpyroximate	0.000	0.757	0.744	0.800	1.8%	< 30	94.7%	93.0%	50 - 150	
Fipronil	0.000	0.792	0.759	0.800	4.2%	< 30	99.0%	94.9%	50 - 150	
Flonicamid	0.000	0.952	0.875	1.000	8.5%	< 30	95.2%	87.5%	50 - 150	
Fludioxonil	0.000	0.799	0.763	0.800	4.5%	< 30	99.8%	95.4%	50 - 150	
Hexythiazox	0.000	1.102	1.090	1.000	1.1%	< 30	110.2%	109.0%	50 - 150	
Imazalil	0.000	0.397	0.380	0.400	4.3%	< 30	99.2%	95.1%	50 - 150	
Imidacloprid	0.000	0.764	0.767	0.800	0.4%	< 30	95.6%	95.9%	50 - 150	
Kresoxim-methyl	0.000	0.765	0.776	0.800	1.5%	< 30	95.6%	97.0%	50 - 150	
Malathion	0.000	0.376	0.371	0.400	1.4%	< 30	94.1%	92.8%	50 - 150	
Metaxalaxyl	0.000	0.390	0.396	0.400	1.6%	< 30	97.5%	99.0%	50 - 150	
Methiocarb	0.000	0.369	0.380	0.400	2.9%	< 30	92.3%	95.0%	50 - 150	
Methomyl	0.000	0.754	0.749	0.800	0.7%	< 30	94.2%	93.6%	50 - 150	
MGK-264	0.000	0.340	0.368	0.400	8.1%	< 30	84.9%	92.1%	50 - 150	
Myclobutanil	0.000	0.388	0.388	0.400	0.1%	< 30	96.9%	97.1%	50 - 150	
Naled	0.000	0.925	0.949	1.000	2.5%	< 30	92.5%	94.9%	50 - 150	
Oxamyl	0.000	1.989	1.961	2.000	1.4%	< 30	99.4%	98.1%	50 - 150	
Paclobutrazole	0.000	0.808	0.776	0.800	4.0%	< 30	101.0%	97.0%	50 - 150	
Parathion-Methyl	0.000	0.352	0.429	0.400	19.8%	< 30	88.0%	107.3%	30 - 150	
Permethrin	0.000	0.347	0.343	0.400	0.9%	< 30	86.6%	85.9%	50 - 150	
Phosmet	0.000	0.388	0.375	0.400	3.5%	< 30	97.0%	93.6%	50 - 150	
Piperonyl butoxide	0.000	2.058	2.184	2.000	6.0%	< 30	102.9%	109.2%	50 - 150	
Prallethrin	0.000	0.369	0.385	0.400	4.4%	< 30	92.2%	96.3%	50 - 150	
Propiconazole	0.000	0.756	0.754	0.800	0.3%	< 30	94.5%	94.2%	50 - 150	
Propoxur	0.000	0.393	0.399	0.400	1.7%	< 30	98.1%	99.8%	50 - 150	
Pyrethrin (Summe)	0.000	0.455	0.452	0.488	0.7%	< 30	93.3%	92.6%	50 - 150	
Pyridaben	0.000	0.376	0.383	0.400	1.9%	< 30	93.9%	95.7%	50 - 150	
Spinosad	0.000	0.383	0.386	0.388	0.6%	< 30	98.8%	99.4%	50 - 150	
Spiromesifen	0.000	0.368	0.358	0.400	2.8%	< 30	92.1%	89.5%	50 - 150	
Spirotetramat	0.000	0.384	0.377	0.400	2.1%	< 30	96.1%	94.1%	50 - 150	
Spiroxamine	0.000	0.811	0.791	0.800	2.5%	< 30	101.4%	98.9%	50 - 150	
Tebuconazole	0.000	0.772	0.784	0.800	1.6%	< 30	96.5%	98.1%	50 - 150	
Thiacloprid	0.000	0.381	0.387	0.400	1.5%	< 30	95.3%	96.8%	50 - 150	
Thiamethoxam	0.000	0.374	0.366	0.400	2.2%	< 30	93.6%	91.5%	50 - 150	
Trifloxystrobin	0.000	0.380	0.386	0.400	1.6%	< 30	94.9%	96.5%	50 - 150	



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Received: 08/22/23 13:36

Revision: 2 Document ID: 7087
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310412						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		458	584	µg/g	78.4	60 - 120		
Isobutane	ND	< 200		652	767	µg/g	85.0	60 - 120		
Butane	ND	< 200		617	782	µg/g	78.9	60 - 120		
2,2-Dimethylpropane	ND	< 200		720	939	µg/g	76.7	60 - 120		
Methanol	ND	< 200		1690	1670	µg/g	101.2	60 - 120		
Ethylene Oxide	ND	< 30		46.6	57.1	µg/g	81.6	60 - 120		
2-Methylbutane	ND	< 200		1610	1680	µg/g	95.8	60 - 120		
Pentane	ND	< 200		1570	1670	µg/g	94.0	60 - 120		
Ethanol	ND	< 200		1680	1660	µg/g	101.2	70 - 130		
Ethyl Ether	ND	< 200		1590	1670	µg/g	95.2	60 - 120		
2,2-Dimethylbutane	ND	< 30		188	189	µg/g	99.5	60 - 120		
Acetone	ND	< 200		1650	1670	µg/g	98.8	60 - 120		
2-Propanol	ND	< 200		1660	1630	µg/g	101.8	60 - 120		
Ethyl Formate	ND	< 500		1150	1600	µg/g	71.9	70 - 130		
Acetonitrile	ND	< 100		460	492	µg/g	93.5	60 - 120		
Methyl Acetate	ND	< 500		1300	1600	µg/g	81.3	70 - 130		
2,3-Dimethylbutane	ND	< 30		173	180	µg/g	96.1	60 - 120		
Dichloromethane	ND	< 60		471	488	µg/g	96.5	60 - 120		
2-Methylpentane	ND	< 30		169	182	µg/g	92.9	60 - 120		
MTBE	ND	< 500		1360	1610	µg/g	84.5	70 - 130		
3-Methylpentane	ND	< 30		173	177	µg/g	97.7	60 - 120		
Hexane	ND	< 30		166	177	µg/g	93.8	60 - 120		
1-Propanol	ND	< 500		1240	1600	µg/g	77.5	70 - 130		
Methylethylketone	ND	< 500		1280	1610	µg/g	79.5	70 - 130		
Ethyl acetate	ND	< 200		1550	1630	µg/g	95.1	60 - 120		
2-Butanol	ND	< 200		1610	1630	µg/g	98.8	60 - 120		
Tetrahydrofuran	ND	< 100		467	488	µg/g	95.7	60 - 120		
Cyclohexane	ND	< 200		1530	1610	µg/g	95.0	60 - 120		
2-methyl-1-propanol	ND	< 500		1270	1610	µg/g	78.9	70 - 130		
Benzene	ND	< 1		3.96	4.79	µg/g	82.7	60 - 120		
Isopropyl Acetate	ND	< 200		1570	1650	µg/g	95.2	60 - 120		
Heptane	ND	< 200		1520	1630	µg/g	93.3	60 - 120		
1-Butanol	ND	< 500		1220	1600	µg/g	76.3	70 - 130		
Propyl Acetate	ND	< 500		1210	1600	µg/g	75.6	70 - 130		
1,4-Dioxane	ND	< 100		495	523	µg/g	94.6	60 - 120		
2-Ethoxyethanol	ND	< 30		183	179	µg/g	102.2	60 - 120		
Methylisobutylketone	ND	< 500		1170	1600	µg/g	73.1	70 - 130		
3-Methyl-1-butanol	ND	< 500		1200	1600	µg/g	75.0	70 - 130		
Ethylene Glycol	ND	< 200		271	506	µg/g	53.6	60 - 120	Q6	
Toluene	ND	< 100		465	496	µg/g	93.8	60 - 120		
Isobutyl Acetate	ND	< 500		1180	1610	µg/g	73.3	70 - 130		
1-Pentanol	ND	< 500		1160	1600	µg/g	72.5	70 - 130		
Butyl Acetate	ND	< 500		1130	1610	µg/g	70.2	70 - 130		
Ethylbenzene	ND	< 200		882	978	µg/g	90.2	60 - 120		
m,p-Xylene	ND	< 200		896	994	µg/g	90.1	60 - 120		
o-Xylene	ND	< 200		867	982	µg/g	88.3	60 - 120		
Cumene	ND	< 30		138	171	µg/g	80.7	60 - 120		
Anisole	ND	< 500		1050	1600	µg/g	65.6	70 - 130	Q6	
DMSO	ND	< 500		809	1620	µg/g	49.9	70 - 130	Q6	
1,2-dimethoxyethane	ND	< 50		142	185	µg/g	76.3	70 - 130		
Triethylamine	ND	< 500		1180	1600	µg/g	73.8	70 - 130		
N,N-dimethylformamide	ND	< 150		364	480	µg/g	75.8	70 - 130		
N,N-dimethylacetamide	ND	< 150		340	483	µg/g	70.4	70 - 130		
Pyridine	ND	< 50		125	168	µg/g	74.4	70 - 130		
Sulfone	ND	< 50		120	161	µg/g	74.5	70 - 130		
1,2-Dichloroethane	ND	< 1		1.11	1	µg/g	111.0	70 - 130		
Chloroform	ND	< 1		0.788	1	µg/g	78.8	70 - 130		
Trichloroethylene	ND	< 1		0.904	1	µg/g	90.4	70 - 130		
1,1-Dichloroethane	ND	< 1		0.709	1	µg/g	70.9	70 - 130		



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QC - Sample Duplicate		Sample ID: 23-009993-0001						
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	346	461	200	µg/g	28.5	< 20	FAIL	Q4
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation
 Q4 - Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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Report Number: 23-009993/D003.R000
Report Date: 08/29/2023
ORELAP#: OR100028
Purchase Order: 2606818
Received: 08/22/23 13:36





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.