

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: 23-006787/D008.R000
Report Date: 06/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/07/23 16:13

Customer: Etz Hayim Holdings
Product identity: CYCL-GMY.D9.HB5-FE64
Client/Metric ID: .
Laboratory ID: 23-006787-0004

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	5.22		mg/1g		CBD-Total per Serving Size 5.22 mg/1g
CBDV per 1g	0.0509		mg/1g		
Δ8-THC per 1g	0.271		mg/1g		THC-Total per Serving Size 1.09 mg/1g
Δ9-THC per 1g	1.09		mg/1g		(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	248		

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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Purchase Order:
Received: 06/07/23 16:13

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

Product identity: CYCL-GMY.D9.HB5-FE64

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-006787-0004

Evidence of Cooling: No

Temp: 22.2 °C

Relinquished by: Client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2308114	Analyze: 6/9/23 8:08:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0320	
CBC-A per 1g	< LOQ		mg/1g	0.0320	
CBC-Total per 1g	< LOQ		mg/1g	0.0601	
CBD per 1g	5.22		mg/1g	0.0320	
CBD-A per 1g	< LOQ		mg/1g	0.0320	
CBD-Total per 1g	5.22		mg/1g	0.0601	
CBDV per 1g	0.0509		mg/1g	0.0320	
CBDV-A per 1g	< LOQ		mg/1g	0.0320	
CBDV-Total per 1g	< LOQ		mg/1g	0.0598	
CBE per 1g	< LOQ		mg/1g	0.0320	
CBG per 1g	< LOQ		mg/1g	0.0320	
CBG-A per 1g	< LOQ		mg/1g	0.0320	
CBG-Total per 1g	< LOQ		mg/1g	0.0598	
CBL per 1g	< LOQ		mg/1g	0.0320	
CBL-A per 1g	< LOQ		mg/1g	0.0320	
CBL-Total per 1g	< LOQ		mg/1g	0.0601	
CBN per 1g	< LOQ		mg/1g	0.0320	
CBT per 1g	< LOQ		mg/1g	0.0320	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0320	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0320	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0320	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0641	
Δ8-THC per 1g	0.271		mg/1g	0.0320	
Δ9-THC per 1g	1.09		mg/1g	0.0320	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0320	
exo-THC per 1g	< LOQ		mg/1g	0.0320	
THC-A per 1g	< LOQ		mg/1g	0.0320	
THC-Total per 1g	1.09		mg/1g	0.0601	
THCV per 1g	< LOQ		mg/1g	0.0320	
THCV-A per 1g	< LOQ		mg/1g	0.0320	



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Received: 06/07/23 16:13

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2308114	Analyze: 6/9/23 8:08:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0602	
Total Cannabinoids per 1g	6.63		mg/1g		

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2308047	06/11/23 AOAC 990.12 (Petrifilm) ^P	
E.coli	< LOQ		cfu/g	10	2308045	06/11/23 AOAC 991.14 (Petrifilm) ^P	
Total Coliforms	< LOQ		cfu/g	10	2308045	06/11/23 AOAC 991.14 (Petrifilm) ^P	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308046	06/11/23 AOAC 2014.05 (RAPID) ^P	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308046	06/11/23 AOAC 2014.05 (RAPID) ^P	

Solvents											
Method: Residual Solvents by GC/MS ^b						Units µg/g		Batch 2308117		Analyze 06/12/23 12:30 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	248		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 2308150 Analyze 06/13/23 11:27 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	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		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	0.0160	2308132	06/12/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0160	2308132	06/12/23	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0160	2308132	06/12/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.00800	2308132	06/12/23	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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Report Number: 23-006787/D008.R000
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Received: 06/07/23 16:13

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2308114

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0293	0.0283	%	103	80.0	- 120	Acceptable	
CBDV	2	0.0300	0.0291	%	103	80.0	- 120	Acceptable	
CBE	2	0.0356	0.0344	%	104	80.0	- 120	Acceptable	
CBDA	1	0.0334	0.0324	%	103	90.0	- 110	Acceptable	
CBGA	1	0.0335	0.0328	%	102	80.0	- 120	Acceptable	
CBG	1	0.0350	0.0340	%	103	80.0	- 120	Acceptable	
CBD	1	0.0351	0.0343	%	102	90.0	- 110	Acceptable	
THCV	2	0.0213	0.0201	%	106	80.0	- 120	Acceptable	
d8THCV	2	0.0269	0.0268	%	100	80.0	- 120	Acceptable	
THCVA	2	0.0311	0.0299	%	104	80.0	- 120	Acceptable	
CBN	1	0.0354	0.0347	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.0301	0.0292	%	103	80.0	- 120	Acceptable	
d9THC	1	0.0357	0.0351	%	102	90.0	- 110	Acceptable	
d8THC	1	0.0441	0.0428	%	103	90.0	- 110	Acceptable	
9S-d10THC	1	0.0250	0.0246	%	101	80.0	- 120	Acceptable	
CBL	2	0.0335	0.0315	%	106	80.0	- 120	Acceptable	
9R-d10THC	1	0.0331	0.0330	%	100	80.0	- 120	Acceptable	
CBC	2	0.0311	0.0309	%	101	80.0	- 120	Acceptable	
THCA	1	0.0336	0.0332	%	101	90.0	- 110	Acceptable	
CBCA	2	0.0337	0.0326	%	103	80.0	- 120	Acceptable	
CBLA	2	0.0339	0.0331	%	102	80.0	- 120	Acceptable	
d9THCP	2	0.0322	0.0321	%	100	80.0	- 120	Acceptable	
CBT	2	0.0328	0.0327	%	100	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBDV	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBE	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBDA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBGA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBG	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBD	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCV	<LOQ	0.00313	%	< 0.00313	Acceptable	
d8THCV	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCVA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBN	<LOQ	0.00313	%	< 0.00313	Acceptable	
exo-THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
d9THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
d8THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
9S-d10THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBL	<LOQ	0.00313	%	< 0.00313	Acceptable	
9R-d10THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBC	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBCA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBLA	<LOQ	0.00313	%	< 0.00313	Acceptable	
d9THCP	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBT	<LOQ	0.00313	%	< 0.00313	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: 2308114						
Sample Duplicate		Sample ID: 23-006784-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBD	0.254	0.256	0.00323	%	0.715	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
d9THC	0.262	0.265	0.00323	%	0.884	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
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Units of Measure:

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2308117					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		464	584	µg/g	79.5	60 - 120	
Isobutane	ND	< 200		594	767	µg/g	77.4	60 - 120	
Butane	ND	< 200		583	782	µg/g	74.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		796	939	µg/g	84.8	60 - 120	
Methanol	ND	< 200		1620	1640	µg/g	98.8	60 - 120	
Ethylene Oxide	ND	< 30		41.2	57.1	µg/g	72.2	60 - 120	
2-Methylbutane	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Pentane	ND	< 200		1510	1620	µg/g	93.2	60 - 120	
Ethanol	ND	< 200		1570	1610	µg/g	97.5	70 - 130	
Ethyl Ether	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
2,2-Dimethylbutane	ND	< 30		160	168	µg/g	95.2	60 - 120	
Acetone	ND	< 200		1560	1620	µg/g	96.3	60 - 120	
2-Propanol	ND	< 200		1570	1600	µg/g	98.1	60 - 120	
Ethyl Formate	ND	< 500		1560	1600	µg/g	97.5	70 - 130	
Acetonitrile	ND	< 100		464	484	µg/g	95.9	60 - 120	
Methyl Acetate	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
2,3-Dimethylbutane	ND	< 30		154	162	µg/g	95.1	60 - 120	
Dichloromethane	ND	< 60		457	483	µg/g	94.6	60 - 120	
2-Methylpentane	ND	< 30		167	174	µg/g	96.0	60 - 120	
MTBE	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
3-Methylpentane	ND	< 30		168	168	µg/g	100.0	60 - 120	
Hexane	ND	< 30		157	168	µg/g	93.5	60 - 120	
1-Propanol	ND	< 500		1710	1600	µg/g	106.9	70 - 130	
Methylethylketone	ND	< 500		1710	1620	µg/g	105.6	70 - 130	
Ethyl acetate	ND	< 200		1560	1600	µg/g	97.5	60 - 120	
2-Butanol	ND	< 200		1550	1600	µg/g	96.9	60 - 120	
Tetrahydrofuran	ND	< 100		495	514	µg/g	96.3	60 - 120	
Cyclohexane	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1780	1610	µg/g	110.6	70 - 130	
Benzene	ND	< 1		3.98	5.12	µg/g	77.7	60 - 120	
Isopropyl Acetate	ND	< 200		1580	1620	µg/g	97.5	60 - 120	
Heptane	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
1-Butanol	ND	< 500		1710	1600	µg/g	106.9	70 - 130	
Propyl Acetate	ND	< 500		1660	1600	µg/g	103.8	70 - 130	
1,4-Dioxane	ND	< 100		462	493	µg/g	93.7	60 - 120	
2-Ethoxyethanol	ND	< 30		154	163	µg/g	94.5	60 - 120	
Methylisobutylketone	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
3-Methyl-1-butanol	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
Ethylene Glycol	ND	< 200		331	483	µg/g	68.5	60 - 120	
Toluene	ND	< 100		453	493	µg/g	91.9	60 - 120	
Isobutyl Acetate	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
1-Pentanol	ND	< 500		1650	1600	µg/g	103.1	70 - 130	
Butyl Acetate	ND	< 500		1630	1600	µg/g	101.9	70 - 130	
Ethylbenzene	ND	< 200		891	969	µg/g	92.0	60 - 120	
m,p-Xylene	ND	< 200		889	968	µg/g	91.8	60 - 120	
o-Xylene	ND	< 200		894	976	µg/g	91.6	60 - 120	
Cumene	ND	< 30		152	162	µg/g	93.8	60 - 120	
Anisole	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
DMSO	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		174	164	µg/g	106.1	70 - 130	
Triethylamine	ND	< 500		1680	1600	µg/g	105.0	70 - 130	
N,N-dimethylformamide	ND	< 150		469	484	µg/g	96.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		432	489	µg/g	88.3	70 - 130	
Pyridine	ND	< 50		174	172	µg/g	101.2	70 - 130	
Sulfolane	ND	< 50		137	163	µg/g	84.0	70 - 130	
1,2-Dichloroethane	ND	< 1		0.938	1	µg/g	93.8	70 - 130	
Chloroform	ND	< 1		0.95	1	µg/g	95.0	70 - 130	
Trichloroethylene	ND	< 1		0.903	1	µg/g	90.3	70 - 130	
1,1-Dichloroethane	ND	< 1		0.95	1	µg/g	95.0	70 - 130	



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



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QC - Sample Duplicate			Sample ID: 23-006648-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Isobutane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Butane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2,2-Dimethylpropane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Methanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethylene Oxide	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
2-Methylbutane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Pentane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethyl Ether	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2,2-Dimethylbutane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Acetone	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-Propanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethyl Formate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Acetonitrile	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Methyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
2,3-Dimethylbutane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Dichloromethane	ND	#N/A	60	µg/g	#N/A	< 20	#N/A	
2-Methylpentane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
MTBE	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
3-Methylpentane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Hexane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
1-Propanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Methyl ethyl ketone	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethyl acetate	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-Butanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Tetrahydrofuran	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Cyclohexane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-methyl-1-propanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Benzene	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	
Isopropyl Acetate	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Heptane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
1-Butanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Propyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1,4-Dioxane	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
2-Ethoxyethanol	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Methylisobutylketone	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
3-Methyl-1-butanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethylene Glycol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Toluene	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Isobutyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1-Pentanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Butyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethylbenzene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
m,p-Xylene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
o-Xylene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Cumene	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Anisole	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
DMSO	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1,2-dimethoxyethane	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	
Triethylamine	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
N,N-dimethylformamide	ND	#N/A	150	µg/g	#N/A	< 20	#N/A	
N,N-dimethylacetamide	ND	#N/A	150	µg/g	#N/A	< 20	#N/A	
Pyridine	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	
Sulfolane	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	
1,2-Dichloroethane	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	
Chloroform	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	
Trichloroethylene	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	
1,1-Dichloroethane	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	

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



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



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2308150				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.006	1.000	100.6	50.0	150
Acephate	0.033	< 0.200		0.642	0.800	80.3	60.0	120
Acetamiprid	0.000	< 1.000		3.840	4.000	96.0	40.0	160
Acetamiprid	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Aldicarb	0.000	< 0.200		0.816	0.800	102.1	60.0	120
Azoxystrobin	0.007	< 0.100		0.387	0.400	96.7	60.0	120
Bifenazate	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Bifenthrin	0.000	< 0.100		0.396	0.400	98.9	50.0	150
Boscalid	0.000	< 0.200		0.808	0.800	101.0	60.0	120
Carbaryl	0.000	< 0.100		0.384	0.400	96.1	60.0	120
Carbofuran	0.000	< 0.100		0.383	0.400	95.9	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Chlorfenapyr	0.000	< 0.500		2.032	2.000	101.6	60.0	120
Chlorpyrifos	0.002	< 0.100		0.602	0.400	150.5	60.0	120
Clofentazine	0.000	< 0.100		0.347	0.400	86.7	60.0	120
Cyfluthrin	0.000	< 0.500		1.874	2.000	93.7	50.0	150
Cypermethrin	0.000	< 0.500		1.934	2.000	96.7	50.0	150
Daminozide	0.000	< 0.500		0.754	2.000	37.7	60.0	120
Diazinon	0.000	< 0.100		0.422	0.400	105.6	60.0	120
Dichlorvos	0.000	< 0.500		1.913	2.000	95.6	60.0	120
Dimethoate	0.000	< 0.100		0.441	0.400	110.3	60.0	120
Ethoprophos	0.000	< 0.100		0.393	0.400	98.2	60.0	120
Etofenprox	0.000	< 0.200		0.772	0.800	96.5	50.0	150
Etoxazole	0.007	< 0.100		0.406	0.400	101.6	60.0	120
Fenoxycarb	0.000	< 0.100		0.396	0.400	99.0	60.0	120
Fenpyroximate	0.000	< 0.200		0.786	0.800	98.2	60.0	120
Fipronil	0.000	< 0.200		0.793	0.800	99.1	60.0	120
Fonicamid	0.000	< 0.250		1.139	1.000	113.9	60.0	120
Fludioxonil	0.000	< 0.200		0.768	0.800	96.1	50.0	150
Hexythiazox	0.000	< 0.250		0.987	1.000	98.7	60.0	120
Imazalil	0.000	< 0.100		0.392	0.400	98.1	60.0	120
Imidacloprid	0.000	< 0.200		0.861	0.800	107.6	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.804	0.800	100.5	60.0	120
Malathion	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Metlaxyl	0.000	< 0.100		0.395	0.400	98.8	60.0	120
Methiocarb	0.000	< 0.100		0.383	0.400	95.9	60.0	120
Methomyl	0.000	< 0.200		0.879	0.800	109.9	60.0	120
MGK-264	0.000	< 0.100		0.399	0.400	99.8	50.0	150
Myclobutanil	0.000	< 0.100		0.372	0.400	92.9	60.0	120
Naled	0.000	< 0.250		0.986	1.000	98.6	50.0	150
Oxamyl	0.000	< 0.500		2.229	2.000	111.5	60.0	120
Pacllobutrazole	0.000	< 0.200		0.771	0.800	96.4	60.0	120
Parathion-Methyl	0.000	< 0.100		0.371	0.400	92.6	50.0	150
Permethrin	0.000	< 0.100		0.387	0.400	96.8	50.0	150
Phosmet	0.000	< 0.100		0.393	0.400	98.4	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.966	2.000	98.3	60.0	120
Prallethrin	0.000	< 0.100		0.402	0.400	100.5	60.0	120
Propiconazole	0.000	< 0.200		0.796	0.800	99.5	60.0	120
Propoxur	0.004	< 0.100		0.381	0.400	95.3	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.475	0.488	97.3	60.0	120
Pyridaben	0.000	< 0.100		0.391	0.400	97.8	50.0	150
Spinosad	0.000	< 0.100		0.388	0.388	99.9	50.0	150
Spiromesifen	0.000	< 0.100		0.392	0.400	97.9	60.0	120
Spirotetramat	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Spiroxamine	0.005	< 0.200		0.761	0.800	95.2	60.0	120
Tebuconazole	0.000	< 0.200		0.786	0.800	98.3	60.0	120
Thiacloprid	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Thiamethoxam	0.000	< 0.100		0.464	0.400	116.1	60.0	120
Trifloxystrobin	0.000	< 0.100		0.391	0.400	97.6	60.0	120

Q1

Q6



12423 NE Whitaker Way
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2308150				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 23-006824-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	1.158	1.122	1.000	3.2%	< 30	115.8%	112.2%	50 - 150		
Acephate	0.024	0.728	0.711	0.800	2.5%	< 30	88.0%	85.9%	50 - 150		
Acequinocyl	0.016	3.254	3.134	4.000	3.8%	< 30	80.9%	77.9%	50 - 150		
Acetamiprid	0.000	0.395	0.390	0.400	1.4%	< 30	98.8%	97.4%	50 - 150		
Aldicarb	0.000	0.820	0.823	0.800	0.4%	< 30	102.4%	102.8%	50 - 150		
Azoxystrobin	0.006	0.385	0.386	0.400	0.2%	< 30	94.6%	94.8%	50 - 150		
Bifenazate	0.000	0.414	0.398	0.400	3.9%	< 30	103.6%	99.6%	50 - 150		
Bifenthrin	1.224	1.660	1.620	0.400	9.7%	< 30	108.9%	98.8%	50 - 150		
Boscalid	0.021	0.772	0.841	0.800	8.8%	< 30	93.9%	102.6%	50 - 150		
Carbaryl	0.000	0.377	0.382	0.400	1.4%	< 30	94.2%	95.6%	50 - 150		
Carbofuran	0.000	0.386	0.377	0.400	2.2%	< 30	96.4%	94.2%	50 - 150		
Chlorantraniliprole	0.000	0.421	0.400	0.400	5.1%	< 30	105.1%	99.9%	50 - 150		
Chlorfenapyr	0.000	1.880	1.965	2.000	4.4%	< 30	94.0%	98.2%	50 - 150		
Chlorpyrifos	0.004	0.545	0.558	0.400	2.4%	< 30	135.4%	138.7%	50 - 150		
Clofentezine	0.000	0.296	0.303	0.400	2.3%	< 30	73.9%	75.6%	50 - 150		
Cyfluthrin	0.000	2.558	2.649	2.000	3.5%	< 30	127.9%	132.4%	30 - 150		
Cypermethrin	0.006	2.735	2.718	2.000	0.6%	< 30	136.5%	135.6%	50 - 150		
Daminozide	0.000	0.818	0.787	2.000	3.8%	< 30	40.9%	39.3%	30 - 150		
Diazinon	0.000	0.386	0.377	0.400	2.1%	< 30	96.4%	94.4%	50 - 150		
Dichlorvos	0.000	1.922	1.938	2.000	0.8%	< 30	96.1%	96.9%	50 - 150		
Dimethoate	0.000	0.426	0.381	0.400	11.1%	< 30	106.6%	95.4%	50 - 150		
Ethoprophos	0.000	0.390	0.386	0.400	1.1%	< 30	97.6%	96.5%	50 - 150		
Etofenprox	0.000	0.690	0.692	0.800	0.2%	< 30	86.3%	86.5%	50 - 150		
Etoxazole	0.007	0.390	0.372	0.400	5.0%	< 30	95.9%	91.3%	50 - 150		
Fenoxycarb	0.000	0.379	0.381	0.400	0.5%	< 30	94.7%	95.2%	50 - 150		
Fenpyroximate	0.000	0.700	0.706	0.800	0.9%	< 30	87.5%	88.3%	50 - 150		
Fipronil	0.000	0.784	0.796	0.800	1.5%	< 30	98.0%	99.5%	50 - 150		
Fonicamid	0.000	1.074	1.030	1.000	4.2%	< 30	107.4%	103.0%	50 - 150		
Fludioxonil	0.000	0.818	0.817	0.800	0.1%	< 30	102.2%	102.1%	50 - 150		
Hexythiazox	0.000	0.928	0.947	1.000	2.0%	< 30	92.8%	94.7%	50 - 150		
Imazalil	0.000	0.387	0.374	0.400	3.5%	< 30	96.8%	93.5%	50 - 150		
Imidacloprid	0.015	0.827	0.710	0.800	15.6%	< 30	101.5%	86.8%	50 - 150		
Kresoxim-methyl	0.000	0.800	0.820	0.800	2.5%	< 30	100.0%	102.5%	50 - 150		
Malathion	0.000	0.382	0.390	0.400	2.0%	< 30	95.5%	97.4%	50 - 150		
Metaxalyl	0.000	0.398	0.393	0.400	1.2%	< 30	99.5%	98.4%	50 - 150		
Methiocarb	0.000	0.378	0.384	0.400	1.6%	< 30	94.5%	96.1%	50 - 150		
Methomyl	0.000	0.842	0.803	0.800	4.7%	< 30	105.2%	100.4%	50 - 150		
MGK-264	0.000	0.393	0.395	0.400	0.4%	< 30	98.3%	98.7%	50 - 150		
Myclobutanil	0.001	0.387	0.390	0.400	0.9%	< 30	96.5%	97.4%	50 - 150		
Naled	0.000	0.955	0.961	1.000	0.6%	< 30	95.5%	96.1%	50 - 150		
Oxamyl	0.000	2.003	1.969	2.000	1.7%	< 30	100.1%	98.5%	50 - 150		
Paclobotrazole	0.000	0.787	0.792	0.800	0.6%	< 30	98.4%	99.0%	50 - 150		
Parathion-Methyl	0.000	0.376	0.384	0.400	2.2%	< 30	94.0%	96.0%	30 - 150		
Permethrin	0.014	0.407	0.400	0.400	1.7%	< 30	98.3%	96.6%	50 - 150		
Phosmet	0.000	0.394	0.393	0.400	0.1%	< 30	98.5%	98.4%	50 - 150		
Piperonyl butoxide	0.000	1.920	1.996	2.000	3.9%	< 30	96.0%	99.8%	50 - 150		
Prallethrin	0.000	0.446	0.445	0.400	0.2%	< 30	111.5%	111.3%	50 - 150		
Propiconazole	0.000	0.835	0.822	0.800	1.6%	< 30	104.4%	102.8%	50 - 150		
Propoxur	0.004	0.389	0.391	0.400	0.6%	< 30	96.3%	96.9%	50 - 150		
Pyrethrin (Summe)	0.003	0.460	0.451	0.488	2.1%	< 30	93.8%	91.8%	50 - 150		
Pyridaben	0.000	0.324	0.323	0.400	0.1%	< 30	80.9%	80.8%	50 - 150		
Spirosad	0.000	0.395	0.379	0.388	3.9%	< 30	101.7%	97.8%	50 - 150		
Spiromesifen	0.000	0.365	0.365	0.400	0.1%	< 30	91.3%	91.1%	50 - 150		
Spirotetramat	0.000	0.400	0.403	0.400	0.7%	< 30	100.0%	100.7%	50 - 150		
Spiroxamine	0.000	0.795	0.803	0.800	1.0%	< 30	99.3%	100.4%	50 - 150		
Tebuconazole	0.000	0.762	0.763	0.800	0.2%	< 30	95.2%	95.4%	50 - 150		
Thiacloprid	0.000	0.394	0.392	0.400	0.4%	< 30	98.5%	98.1%	50 - 150		
Thiamethoxam	0.000	0.424	0.402	0.400	5.2%	< 30	106.0%	100.5%	50 - 150		
Trifloxystrobin	0.000	0.379	0.372	0.400	1.9%	< 30	94.8%	93.0%	50 - 150		



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503-254-1794



Report Number: 23-006787/D008.R000
Report Date: 06/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 06/07/23 16:13





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.