

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: 23-007761/D008.R000
Report Date: 07/07/2023
ORELAP#: OR100028
Purchase Order: 2537285
Received: 06/29/23 16:21

Customer: Etz Hayim Holdings
Product identity: CYCL-GMY.D9.BR10-FF70
Client/Metric ID: .
Laboratory ID: 23-007761-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	2.21		mg/1g		CBD-Total per Serving Size 2.21 mg/1g
Δ8-THC per 1g	0.526		mg/1g		
Δ9-THC per 1g	2.10		mg/1g		THC-Total per Serving Size 2.10 mg/1g
(Reported in milligrams per serving)					

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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Purchase Order: 2537285
Received: 06/29/23 16:21

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

Product identity: CYCL-GMY.D9.BR10-FF70

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-007761-0002

Evidence of Cooling: No

Temp: 26.3

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: 2308730	Analyze: 6/30/23 9:17:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.0323	
CBC-A per 1g	< LOQ		mg/1g	0.0323	
CBC-Total per 1g	< LOQ		mg/1g	0.0606	
CBD per 1g	2.21		mg/1g	0.0323	
CBD-A per 1g	< LOQ		mg/1g	0.0323	
CBD-Total per 1g	2.21		mg/1g	0.0606	
CBDV per 1g	< LOQ		mg/1g	0.0323	
CBDV-A per 1g	< LOQ		mg/1g	0.0323	
CBDV-Total per 1g	< LOQ		mg/1g	0.0602	
CBE per 1g	< LOQ		mg/1g	0.0323	
CBG per 1g	< LOQ		mg/1g	0.0323	
CBG-A per 1g	< LOQ		mg/1g	0.0323	
CBG-Total per 1g	< LOQ		mg/1g	0.0602	
CBL per 1g	< LOQ		mg/1g	0.0323	
CBL-A per 1g	< LOQ		mg/1g	0.0323	
CBL-Total per 1g	< LOQ		mg/1g	0.0606	
CBN per 1g	< LOQ		mg/1g	0.0323	
CBT per 1g	< LOQ		mg/1g	0.0323	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0323	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0323	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0323	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0645	
Δ8-THC per 1g	0.526		mg/1g	0.0323	
Δ9-THC per 1g	2.10		mg/1g	0.0323	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0323	
exo-THC per 1g	< LOQ		mg/1g	0.0323	
THC-A per 1g	< LOQ		mg/1g	0.0323	
THC-Total per 1g	2.10		mg/1g	0.0606	
THCV per 1g	< LOQ		mg/1g	0.0323	
THCV-A per 1g	< LOQ		mg/1g	0.0323	



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Received: 06/29/23 16:21

Potency per 1g					
Method: J AOAC 2015 V98-6 (mod) ^P		Units mg/se		Batch: 2308730	Analyze: 6/30/23 9:17:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0606	
Total Cannabinoids per 1g	4.84		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2308693	07/02/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2308693	07/02/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308694	07/02/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308694	07/02/23 AOAC 2014.05 (RAPID) ^P		

Solvents											
Method: Residual Solvents by GC/MS ^P						Units µg/g		Batch 2308778		Analyze 07/05/23 10:01 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	< 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							


Pesticides Method: AOAC 2007.01 & EN 15662 (mod)^b Units mg/kg Batch 2308819 Analyze 07/06/23 10:05 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	0.0151	2308848	07/06/23 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0151	2308848	07/06/23 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0151	2308848	07/06/23 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00753	2308848	07/06/23 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: 2308730

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0321	0.0316	%	102	80.0	- 120	Acceptable	
CBDV	2	0.0322	0.0315	%	102	80.0	- 120	Acceptable	
CBE	2	0.0353	0.0348	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0328	0.0325	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0334	0.0326	%	102	80.0	- 120	Acceptable	
CBG	1	0.0326	0.0332	%	98.2	80.0	- 120	Acceptable	
CBD	1	0.0335	0.0337	%	99.2	90.0	- 110	Acceptable	
THCV	2	0.0237	0.0236	%	100	80.0	- 120	Acceptable	
d8THCV	2	0.0286	0.0279	%	103	80.0	- 120	Acceptable	
THCVA	2	0.0312	0.0308	%	101	80.0	- 120	Acceptable	
CBN	1	0.0345	0.0340	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.0286	0.0283	%	101	80.0	- 120	Acceptable	
d9THC	1	0.0324	0.0329	%	98.4	90.0	- 110	Acceptable	
d8THC	1	0.0319	0.0320	%	99.6	90.0	- 110	Acceptable	
9S-d10THC	1	0.0338	0.0343	%	98.6	80.0	- 120	Acceptable	
CBL	2	0.0309	0.0311	%	99.2	80.0	- 120	Acceptable	
9R-d10THC	1	0.0318	0.0313	%	102	80.0	- 120	Acceptable	
CBC	2	0.0296	0.0293	%	101	80.0	- 120	Acceptable	
THCA	1	0.0330	0.0322	%	102	90.0	- 110	Acceptable	
CBCA	2	0.0318	0.0320	%	99.6	80.0	- 120	Acceptable	
CBLA	2	0.0308	0.0302	%	102	80.0	- 120	Acceptable	
d9THCP	2	0.0321	0.0326	%	98.7	80.0	- 120	Acceptable	
CBT	2	0.0319	0.0326	%	97.8	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDV	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBE	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBDA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBGA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBG	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBD	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THCV	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCVA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBN	<LOQ	0.00318	%	< 0.00318	Acceptable	
exo-THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
d8THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
9S-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBL	<LOQ	0.00318	%	< 0.00318	Acceptable	
9R-d10THC	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBC	<LOQ	0.00318	%	< 0.00318	Acceptable	
THCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBCA	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBLA	<LOQ	0.00318	%	< 0.00318	Acceptable	
d9THCP	<LOQ	0.00318	%	< 0.00318	Acceptable	
CBT	<LOQ	0.00318	%	< 0.00318	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: 2308730						
Sample Duplicate		Sample ID: 23-007655-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDV	0.00488	0.00490	0.00324	%	0.424	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBD	0.405	0.400	0.00324	%	1.16	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBN	0.141	0.140	0.00324	%	0.922	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00324	%	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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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2308778					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		487	584	µg/g	83.4	60 - 120	
Isobutane	ND	< 200		691	767	µg/g	90.1	60 - 120	
Butane	ND	< 200		677	782	µg/g	86.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		729	939	µg/g	77.6	60 - 120	
Methanol	ND	< 200		1440	1640	µg/g	87.8	60 - 120	
Ethylene Oxide	ND	< 30		49.7	57.1	µg/g	87.0	60 - 120	
2-Methylbutane	ND	< 200		1310	1600	µg/g	81.9	60 - 120	
Pentane	ND	< 200		1340	1620	µg/g	82.7	60 - 120	
Ethanol	ND	< 200		1470	1610	µg/g	91.3	70 - 130	
Ethyl Ether	ND	< 200		1370	1610	µg/g	85.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		144	168	µg/g	85.7	60 - 120	
Acetone	ND	< 200		1400	1620	µg/g	86.4	60 - 120	
2-Propanol	ND	< 200		1540	1600	µg/g	96.3	60 - 120	
Ethyl Formate	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
Acetonitrile	ND	< 100		411	484	µg/g	84.9	60 - 120	
Methyl Acetate	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		131	162	µg/g	80.9	60 - 120	
Dichloromethane	ND	< 60		424	483	µg/g	87.8	60 - 120	
2-Methylpentane	ND	< 30		148	174	µg/g	85.1	60 - 120	
MTBE	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
3-Methylpentane	ND	< 30		153	168	µg/g	91.1	60 - 120	
Hexane	ND	< 30		143	168	µg/g	85.1	60 - 120	
1-Propanol	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
Methylethylketone	ND	< 500		1430	1620	µg/g	88.3	70 - 130	
Ethyl acetate	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
2-Butanol	ND	< 200		1550	1600	µg/g	96.9	60 - 120	
Tetrahydrofuran	ND	< 100		449	514	µg/g	87.4	60 - 120	
Cyclohexane	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
2-methyl-1-propanol	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
Benzene	ND	< 1		3.79	5.12	µg/g	74.0	60 - 120	
Isopropyl Acetate	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
Heptane	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
1-Butanol	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
Propyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
1,4-Dioxane	ND	< 100		446	493	µg/g	90.5	60 - 120	
2-Ethoxyethanol	ND	< 30		162	163	µg/g	99.4	60 - 120	
Methylisobutylketone	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
Ethylene Glycol	ND	< 200		299	483	µg/g	61.9	60 - 120	
Toluene	ND	< 100		440	493	µg/g	89.2	60 - 120	
Isobutyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
1-Pentanol	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
Butyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
Ethylbenzene	ND	< 200		884	969	µg/g	91.2	60 - 120	
m,p-Xylene	ND	< 200		879	968	µg/g	90.8	60 - 120	
o-Xylene	ND	< 200		891	976	µg/g	91.3	60 - 120	
Cumene	ND	< 30		147	162	µg/g	90.7	60 - 120	
Anisole	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
DMSO	ND	< 500		1150	1610	µg/g	71.4	70 - 130	
1,2-dimethoxyethane	ND	< 50		145	164	µg/g	88.4	70 - 130	
Triethylamine	ND	< 500		1160	1600	µg/g	72.5	70 - 130	
N,N-dimethylformamide	ND	< 150		459	484	µg/g	94.8	70 - 130	
N,N-dimethylacetamide	ND	< 150		418	489	µg/g	85.5	70 - 130	
Pyridine	ND	< 50		130	172	µg/g	75.6	70 - 130	
Sulfolane	ND	< 50		104	163	µg/g	63.8	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.907	1	µg/g	90.7	70 - 130	
Chloroform	ND	< 1		0.995	1	µg/g	99.5	70 - 130	
Trichloroethylene	ND	< 1		1.09	1	µg/g	109.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.928	1	µg/g	92.8	70 - 130	



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503-254-1794



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Received: 06/29/23 16:21

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QC - Sample Duplicate		Sample ID: 23-007725-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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

Units of Measure:

µg/g - Microgram per gram or ppm



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Portland, OR 97230
503-254-1794



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2308819			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		0.991	1.000	99.1	50.0	150
Acephate	0.000	< 0.200		0.788	0.800	98.5	60.0	120
Acetamiprid	0.012	< 1.000		3.768	4.000	94.2	40.0	160
Acetamiprid	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Aldicarb	0.000	< 0.200		0.787	0.800	98.4	60.0	120
Azoxystrobin	0.000	< 0.100		0.388	0.400	96.9	60.0	120
Bifenazate	0.000	< 0.100		0.395	0.400	98.9	60.0	120
Bifenthrin	0.000	< 0.100		0.387	0.400	96.7	50.0	150
Boscalid	0.000	< 0.200		0.770	0.800	96.3	60.0	120
Carbaryl	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Carbendazim	0.000	< 0.100		0.392	0.400	98.1	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.396	0.400	98.9	60.0	120
Chlorfenapyr	0.000	< 0.500		2.059	2.000	103.0	60.0	120
Chlorpyrifos	0.000	< 0.100		0.398	0.400	98.3	60.0	120
Clofentezine	0.003	< 0.100		0.151	0.400	37.7	60.0	120
Cyfluthrin	0.000	< 0.500		2.003	2.000	100.1	50.0	150
Cypermethrin	0.000	< 0.500		1.921	2.000	96.0	50.0	150
Daminozide	0.000	< 0.500		0.802	2.000	40.1	60.0	120
Diazonin	0.000	< 0.100		0.335	0.400	83.8	60.0	120
Dichlorvos	0.003	< 0.500		1.899	2.000	95.0	60.0	120
Dimethoate	0.000	< 0.100		0.370	0.400	92.4	60.0	120
Ethiofencarb	0.000	< 0.100		0.398	0.400	99.5	60.0	120
Etofenprox	0.000	< 0.200		0.788	0.800	98.5	50.0	150
Etoxazole	0.000	< 0.100		0.377	0.400	94.3	60.0	120
Fenoxycarb	0.000	< 0.100		0.391	0.400	97.7	60.0	120
Fenpyroximate	0.000	< 0.200		0.777	0.800	97.1	60.0	120
Fipronil	0.000	< 0.200		0.774	0.800	96.8	60.0	120
Fonicamid	0.000	< 0.250		0.917	1.000	91.7	60.0	120
Fludioxonil	0.000	< 0.200		0.783	0.800	97.9	50.0	150
Hexythiazox	0.000	< 0.250		0.974	1.000	97.4	60.0	120
Imazalil	0.000	< 0.100		0.394	0.400	98.6	60.0	120
Imidacloprid	0.029	< 0.200		0.771	0.800	96.4	60.0	120
Kiesoxim-methyl	0.000	< 0.200		0.801	0.800	100.1	60.0	120
Malathion	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Metolaxyl	0.000	< 0.100		0.387	0.400	96.9	60.0	120
Methiocarb	0.000	< 0.100		0.405	0.400	101.2	60.0	120
Methomyl	0.000	< 0.200		0.752	0.800	94.0	60.0	120
MCK-264	0.000	< 0.100		0.372	0.400	93.0	50.0	150
Mydobutanol	0.000	< 0.100		0.397	0.400	99.4	60.0	120
Naled	0.000	< 0.250		0.954	1.000	95.4	50.0	150
Oxamyl	0.000	< 0.500		1.832	2.000	91.6	60.0	120
Padobutrazole	0.000	< 0.200		0.806	0.800	100.8	60.0	120
Parathion-Methyl	0.000	< 0.100		0.352	0.400	88.0	50.0	150
Permethrin	0.000	< 0.100		0.388	0.400	97.0	50.0	150
Phosmet	0.000	< 0.100		0.417	0.400	104.2	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.012	2.000	100.6	60.0	120
Prallethrin	0.000	< 0.100		0.381	0.400	95.3	60.0	120
Propiconazole	0.000	< 0.200		0.791	0.800	98.9	60.0	120
Propoxur	0.001	< 0.100		0.380	0.400	95.1	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.479	0.488	98.2	60.0	120
Pyridaben	0.000	< 0.100		0.384	0.400	96.1	50.0	150
Spinosad	0.000	< 0.100		0.390	0.388	100.6	50.0	150
Spiromesfen	0.000	< 0.100		0.403	0.400	100.7	60.0	120
Spirotetramat	0.000	< 0.100		0.394	0.400	98.6	60.0	120
Spiroxamine	0.000	< 0.200		0.780	0.800	97.5	60.0	120
Tebuconazole	0.000	< 0.200		0.807	0.800	100.9	60.0	120
Thiadoprid	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Thiamethoxam	0.000	< 0.100		0.364	0.400	91.0	60.0	120
Trifloxystrobin	0.000	< 0.100		0.378	0.400	94.6	60.0	120

Q6

Q6



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



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662											Units: mg/Kg			Batch ID 2308819	
Matrix Spke/Matrix Spke Duplicate Recoveries					Sample ID: 23-0077610002										
Analyte	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes					
Abamectin	0.00	0.937	0.910	1.000	2.9%	< 30	93.7%	91.0%	50 - 150						
Acephate	0.00	0.807	0.752	0.800	7.0%	< 30	100.8%	94.0%	50 - 150						
Acetamiprid	0.00	0.379	0.377	0.400	0.7%	< 30	94.9%	94.2%	50 - 150						
Aldicarb	0.00	0.761	0.753	0.800	1.1%	< 30	95.1%	94.1%	50 - 150						
Azoxystrobin	0.00	0.379	0.372	0.400	1.7%	< 30	94.7%	93.1%	50 - 150						
Bifenazate	0.00	0.387	0.388	0.400	0.2%	< 30	96.8%	97.0%	50 - 150						
Bifenthrin	0.00	0.348	0.351	0.400	0.9%	< 30	87.0%	87.7%	50 - 150						
Boscalid	0.00	0.723	0.746	0.800	3.0%	< 30	90.4%	93.2%	50 - 150						
Carbaryl	0.00	0.375	0.365	0.400	2.6%	< 30	93.7%	91.3%	50 - 150						
Carbofuran	0.00	0.365	0.368	0.400	0.9%	< 30	91.2%	92.1%	50 - 150						
Chlorantraniliprole	0.00	0.392	0.394	0.400	2.0%	< 30	97.9%	96.0%	50 - 150						
Chlorfenapyr	0.00	1.700	1.744	2.000	2.5%	< 30	85.0%	87.2%	50 - 150						
Chlorpyrifos	0.00	0.319	0.323	0.400	1.1%	< 30	79.7%	80.6%	50 - 150						
Clofentezine	0.00	0.029	0.030	0.400	1.8%	< 30	7.3%	7.4%	50 - 150	Q					
Cyfluthrin	0.00	1.852	1.924	2.000	3.8%	< 30	92.8%	96.2%	30 - 150						
Cypermethrin	0.00	1.838	1.800	2.000	2.1%	< 30	91.9%	90.0%	50 - 150						
Daminozide	0.00	0.749	0.756	2.000	1.0%	< 30	37.4%	37.8%	30 - 150						
Diazinon	0.00	0.205	0.207	0.400	0.7%	< 30	51.4%	51.8%	50 - 150						
Dichlorvos	0.004	1.805	1.855	2.000	2.7%	< 30	90.1%	92.0%	50 - 150						
Dimethoate	0.00	0.347	0.363	0.400	4.7%	< 30	84.3%	88.4%	50 - 150						
Ethiofoprophos	0.00	0.362	0.376	0.400	3.7%	< 30	90.4%	93.9%	50 - 150						
Etofenprox	0.00	0.695	0.696	0.800	0.1%	< 30	86.9%	87.0%	50 - 150						
Etoxazole	0.00	0.245	0.244	0.400	0.3%	< 30	61.3%	61.1%	50 - 150						
Fenoxycarb	0.00	0.374	0.366	0.400	2.2%	< 30	93.6%	91.6%	50 - 150						
Fenpyroximate	0.00	0.747	0.735	0.800	1.5%	< 30	93.4%	92.0%	50 - 150						
Fipronil	0.00	0.745	0.717	0.800	3.7%	< 30	93.1%	89.7%	50 - 150						
Fonicamid	0.00	0.797	0.892	1.000	11.3%	< 30	79.7%	89.2%	50 - 150						
Fludioxonil	0.00	0.744	0.758	0.800	1.8%	< 30	93.1%	94.8%	50 - 150						
Hexythiazox	0.00	0.827	0.842	1.000	1.8%	< 30	82.7%	84.2%	50 - 150						
Imazalil	0.00	0.380	0.383	0.400	0.9%	< 30	95.0%	95.9%	50 - 150						
Imidacloprid	0.00	0.748	0.696	0.800	7.5%	< 30	89.7%	83.2%	50 - 150						
Kiesoxim-methyl	0.00	0.749	0.757	0.800	1.1%	< 30	93.6%	94.7%	50 - 150						
Malathion	0.00	0.371	0.373	0.400	0.7%	< 30	92.6%	93.3%	50 - 150						
Metaxyl	0.00	0.376	0.375	0.400	0.3%	< 30	94.1%	93.8%	50 - 150						
Methiocarb	0.00	0.376	0.365	0.400	2.4%	< 30	94.0%	96.3%	50 - 150						
Methomyl	0.00	0.668	0.746	0.800	11.0%	< 30	83.9%	93.2%	50 - 150						
MCK-264	0.00	0.347	0.351	0.400	1.3%	< 30	86.7%	87.8%	50 - 150						
Mydobutani	0.00	0.389	0.367	0.400	5.9%	< 30	97.3%	91.8%	50 - 150						
Naled	0.00	0.929	0.899	1.000	3.3%	< 30	92.9%	89.9%	50 - 150						
Oxamyl	0.00	1.694	1.655	2.000	2.2%	< 30	84.7%	82.8%	50 - 150						
Padobutrazole	0.00	0.764	0.777	0.800	1.7%	< 30	95.9%	97.2%	50 - 150						
Parathion-Methyl	0.00	0.354	0.355	0.400	0.5%	< 30	88.6%	89.1%	30 - 150						
Permethrin	0.00	0.349	0.352	0.400	0.9%	< 30	87.2%	88.0%	50 - 150						
Phosmet	0.00	0.381	0.387	0.400	1.4%	< 30	95.3%	96.7%	50 - 150						
Piperonyl butoxide	0.00	1.827	1.799	2.000	1.5%	< 30	91.3%	90.0%	50 - 150						
Prallethrin	0.00	0.350	0.366	0.400	4.5%	< 30	87.4%	91.9%	50 - 150						
Propiconazole	0.00	0.767	0.757	0.800	1.3%	< 30	95.8%	94.6%	50 - 150						
Propoxur	0.00	0.370	0.362	0.400	2.2%	< 30	92.4%	90.4%	50 - 150						
Pyrethrin (Summe)	0.00	0.516	0.497	0.488	3.7%	< 30	105.8%	101.9%	50 - 150						
Pyridaben	0.00	0.335	0.343	0.400	2.4%	< 30	83.6%	85.6%	50 - 150						
Spirosal	0.00	0.370	0.369	0.388	0.1%	< 30	95.3%	95.2%	50 - 150						
Spiromesfen	0.00	0.357	0.375	0.400	4.8%	< 30	89.4%	93.7%	50 - 150						
Spirotetramat	0.00	0.372	0.362	0.400	2.7%	< 30	93.1%	90.6%	50 - 150						
Spiroxamine	0.00	0.751	0.748	0.800	0.4%	< 30	93.8%	93.5%	50 - 150						
Tebuconazole	0.00	0.754	0.741	0.800	1.7%	< 30	94.2%	92.6%	50 - 150						
Thiadoprid	0.00	0.376	0.373	0.400	0.8%	< 30	94.1%	93.3%	50 - 150						
Thiamethoxam	0.00	0.329	0.344	0.400	4.7%	< 30	82.2%	86.1%	50 - 150						
Trifloxystrobin	0.00	0.360	0.357	0.400	0.9%	< 30	90.0%	89.3%	50 - 150						



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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.