

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	1.5 ppm
Cadmium	µg/serving	µg/g	0.5 ppm
Lead	µg/serving	µg/g	0.5 ppm
Mercury	µg/serving	µg/g	3.0 ppm
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	5,000 ppm	
Heptane	µg/g	5,000 ppm	
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: 23-013197/D020.R000
Report Date: 11/15/2023
ORELAP#: OR100028
Purchase Order: 2715879
Received: 11/07/23 16:04

Customer: Etz Hayim Holdings
Product identity: CYCL-SLZ.D9.CH5.6PK-FI22(A)-1X
Client/Metric ID: .
Laboratory ID: 23-013197-0008

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.0423		mg/1g		CBD-Total per Serving Size 0.0423 mg/1g
Δ8-THC per 1g	0.00540		mg/1g		
Δ9-THC per 1g	0.0199		mg/1g		THC-Total per Serving Size 0.0199 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: 2715879
Received: 11/07/23 16:04

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

Product identity: CYCL-SLZ.D9.CH5.6PK-FI22(A)-1X

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-013197-0008

Evidence of Cooling: No

Temp: 18.5 °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: 2312678	Analyze: 11/9/23 11:04:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.000989	
CBC-A per 1g	< LOQ		mg/1g	0.000989	
CBC-Total per 1g	< LOQ		mg/1g	0.00186	
CBD per 1g	0.0423		mg/1g	0.000989	
CBD-A per 1g	< LOQ		mg/1g	0.000989	
CBD-Total per 1g	0.0423		mg/1g	0.00186	
CBDV per 1g	< LOQ		mg/1g	0.000989	
CBDV-A per 1g	< LOQ		mg/1g	0.000989	
CBDV-Total per 1g	< LOQ		mg/1g	0.00185	
CBE per 1g	< LOQ		mg/1g	0.000989	
CBG per 1g	< LOQ		mg/1g	0.000989	
CBG-A per 1g	< LOQ		mg/1g	0.000989	
CBG-Total per 1g	< LOQ		mg/1g	0.00185	
CBL per 1g	< LOQ		mg/1g	0.000989	
CBL-A per 1g	< LOQ		mg/1g	0.000989	
CBL-Total per 1g	< LOQ		mg/1g	0.00186	
CBN per 1g	< LOQ		mg/1g	0.000989	
CBT per 1g	< LOQ		mg/1g	0.000989	
Δ8-THCV per 1g	< LOQ		mg/1g	0.000989	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.000989	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.000989	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.00198	
Δ8-THC per 1g	0.00540		mg/1g	0.000989	
Δ9-THC per 1g	0.0199		mg/1g	0.000989	
delta-9-THCP per 1g	< LOQ		mg/1g	0.000989	
exo-THC per 1g	< LOQ		mg/1g	0.000989	
THC-A per 1g	< LOQ		mg/1g	0.000989	
THC-Total per 1g	0.0199		mg/1g	0.00186	
THCV per 1g	< LOQ		mg/1g	0.000989	
THCV-A per 1g	< LOQ		mg/1g	0.000989	



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)^P **Units** mg/se **Batch:** 2312678 **Analyze:** 11/9/23 11:04:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.00186	
Total Cannabinoids per 1g	0.0676		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2312635	11/11/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2312635	11/11/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2312636	11/12/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2312636	11/12/23 AOAC 2014.05 (RAPID) ^P		

Solvents **Method:** Residual Solvents by GC/MS^P **Units** µg/g **Batch** 2312771 **Analyze** 11/14/23 11:57 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							



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2312740 Analyze 11/13/23 04:13 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		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	0.00365	2312692	11/10/23 AOAC 2013.06 (mod.) ^b	pass			
Cadmium [‡]	< LOQ	0.200	mg/kg	0.00365	2312692	11/10/23 AOAC 2013.06 (mod.) ^b	pass			
Lead [‡]	< LOQ	0.500	mg/kg	0.00365	2312692	11/10/23 AOAC 2013.06 (mod.) ^b	pass			
Mercury [‡]	< LOQ	0.100	mg/kg	0.00182	2312692	11/10/23 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

JAOAC2015 V986 Batch ID: 2312678

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDA	2	0.0009	0.0010	%	95.4	80.0	- 120	Acceptable	
CBV	2	0.00101	0.00101	%	99.6	80.0	- 120	Acceptable	
CEE	2	0.00109	0.00107	%	102	80.0	- 120	Acceptable	
CBDA	1	0.0009	0.0009	%	99.6	90.0	- 110	Acceptable	
CBSA	1	0.0009	0.0009	%	98.9	80.0	- 120	Acceptable	
CBG	1	0.00101	0.0010	%	101	80.0	- 120	Acceptable	
CB	1	0.0010	0.0010	%	100	90.0	- 110	Acceptable	
THCV	2	0.00108	0.00103	%	104	80.0	- 120	Acceptable	
δ8THCV	2	0.0009	0.0008	%	102	80.0	- 120	Acceptable	
THCVA	2	0.0009	0.0009	%	94.3	80.0	- 120	Acceptable	
CBN	1	0.00102	0.0010	%	103	80.0	- 120	Acceptable	
exo-THC	2	0.0010	0.0009	%	102	80.0	- 120	Acceptable	
δ9THC	1	0.00103	0.0010	%	107	90.0	- 110	Acceptable	
δ8THC	1	0.0009	0.0008	%	103	90.0	- 110	Acceptable	
9SaTHC	1	0.00101	0.0010	%	103	80.0	- 120	Acceptable	
CB	2	0.00104	0.0010	%	104	80.0	- 120	Acceptable	
9RaTHC	1	0.0010	0.0009	%	103	80.0	- 120	Acceptable	
CB	2	0.00105	0.00103	%	103	80.0	- 120	Acceptable	
THCA	1	0.0009	0.0009	%	97.1	90.0	- 110	Acceptable	
CBCA	2	0.0009	0.00101	%	90.8	80.0	- 120	Acceptable	
CBLA	2	0.0010	0.00103	%	95.7	80.0	- 120	Acceptable	
δ9THCP	2	0.00104	0.00100	%	104	80.0	- 120	Acceptable	
CB	2	0.00103	0.00103	%	100	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CEE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBSA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9SaTHC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
9RaTHC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	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: 2312678						
Sample Duplicate		Sample ID: 23-0131960001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	0.00584	0.00583	0.0001	%	0.105	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
δ9THC	0.00292	0.00292	0.0001	%	0.118	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
δ9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	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 2312740			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.881	1.00	88.1	50.0	150
Acephate	0.00	< 0.200		0.756	0.80	94.4	60.0	120
Acetamiprid	0.00	< 1.000		3.450	4.00	86.2	40.0	160
Acetamiprid	0.00	< 0.100		0.389	0.40	97.2	60.0	120
Aldicarb	0.00	< 0.200		0.777	0.80	97.1	60.0	120
Azoxystrobin	0.00	< 0.100		0.387	0.40	96.8	60.0	120
Bifenazate	0.00	< 0.100		0.393	0.40	98.2	60.0	120
Bifenthrin	0.00	< 0.100		0.388	0.40	97.1	50.0	150
Boscalid	0.00	< 0.200		0.807	0.80	100.9	60.0	120
Carbaryl	0.00	< 0.100		0.406	0.40	101.5	60.0	120
Carbendazim	0.00	< 0.100		0.387	0.40	96.6	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.472	0.40	118.0	60.0	120
Chlorfenapyr	0.00	< 0.500		1.880	2.00	94.0	60.0	120
Chlorpyrifos	0.00	< 0.100		0.387	0.40	96.8	60.0	120
Clofentezine	0.00	< 0.100		0.313	0.40	78.2	60.0	120
Cyfluthrin	0.00	< 0.500		1.882	2.00	94.1	50.0	150
Cypermethrin	0.00	< 0.500		1.940	2.00	97.0	50.0	150
Daminozide	0.00	< 0.500		0.720	2.00	36.0	60.0	120
Diazinon	0.00	< 0.100		0.382	0.40	90.5	60.0	120
Dichlorvos	0.00	< 0.500		2.046	2.00	102.3	60.0	120
Dimethoate	0.00	< 0.100		0.391	0.40	97.7	60.0	120
Ethionphos	0.00	< 0.100		0.387	0.40	96.8	60.0	120
Etofenprox	0.00	< 0.200		0.780	0.80	95.0	50.0	150
Etoxazole	0.00	< 0.100		0.397	0.40	99.4	60.0	120
Fenoxycarb	0.00	< 0.100		0.402	0.40	100.6	60.0	120
Fenpyroximate	0.00	< 0.200		0.807	0.80	100.9	60.0	120
Fipronil	0.00	< 0.200		0.806	0.80	100.7	60.0	120
Fonicamid	0.00	< 0.250		1.008	1.00	100.8	60.0	120
Fludioxonil	0.00	< 0.200		0.790	0.80	98.8	50.0	150
Hexythiazox	0.00	< 0.250		0.996	1.00	99.6	60.0	120
Imazalil	0.00	< 0.100		0.398	0.40	99.6	60.0	120
Imidacloprid	0.00	< 0.200		0.809	0.80	101.2	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.773	0.80	96.6	60.0	120
Malathion	0.00	< 0.100		0.378	0.40	94.5	60.0	120
Metolaxyl	0.00	< 0.100		0.393	0.40	98.4	60.0	120
Methiocarb	0.00	< 0.100		0.382	0.40	95.4	60.0	120
Methomyl	0.00	< 0.200		0.810	0.80	101.3	60.0	120
MCK-264	0.00	< 0.100		0.431	0.40	107.8	50.0	150
Mydobutanol	0.00	< 0.100		0.409	0.40	102.2	60.0	120
Naled	0.00	< 0.250		0.963	1.00	96.3	50.0	150
Oxamyl	0.00	< 0.500		1.927	2.00	96.4	60.0	120
Padobutrazole	0.00	< 0.200		0.790	0.80	98.8	60.0	120
Parathion-Methyl	0.00	< 0.100		0.421	0.40	105.2	50.0	150
Permethrin	0.027	< 0.100		0.360	0.40	90.0	50.0	150
Phosmet	0.00	< 0.100		0.389	0.40	97.2	50.0	150
Piperonyl butoxide	0.00	< 0.500		1.971	2.00	98.6	60.0	120
Prallethrin	0.008	< 0.100		0.352	0.40	88.0	60.0	120
Propiconazole	0.00	< 0.200		0.767	0.80	95.9	60.0	120
Propoxur	0.00	< 0.100		0.377	0.40	94.1	60.0	120
Pyrethrin (Summe)	0.003	< 0.100		0.484	0.488	99.1	60.0	120
Pyridaben	0.001	< 0.100		0.388	0.40	97.0	50.0	150
Spirosad	0.00	< 0.100		0.387	0.388	99.6	50.0	150
Spiromesfen	0.00	< 0.100		0.401	0.40	100.1	60.0	120
Spirotetramat	0.00	< 0.100		0.398	0.40	99.6	60.0	120
Spiroxamine	0.00	< 0.200		0.795	0.80	99.4	60.0	120
Tebuconazole	0.001	< 0.200		0.802	0.80	100.2	60.0	120
Thiadoprid	0.00	< 0.100		0.387	0.40	96.9	60.0	120
Thiamethoxam	0.00	< 0.100		0.428	0.40	107.0	60.0	120
Trifloxystrobin	0.00	< 0.100		0.383	0.40	95.8	60.0	120

Q7



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Report Number: 23-013197/D020.R000
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Received: 11/07/23 16:04

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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg				Batch ID 2312740				
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.864	0.920	1.00	6.3%	< 30	86.4%	92.0%	50 - 150	
Acephate	0.00	0.759	0.792	0.800	4.3%	< 30	94.9%	99.0%	50 - 150	
Acequinocyl	0.00	3.639	4.047	4.000	10.6%	< 30	91.0%	1012%	50 - 150	
Acetamiprid	0.00	0.400	0.415	0.400	3.7%	< 30	100.1%	1038%	50 - 150	
Aldicarb	0.00	0.754	0.755	0.800	0.1%	< 30	94.3%	94.4%	50 - 150	
Azoxystrobin	0.00	0.381	0.394	0.400	3.1%	< 30	95.4%	98.4%	50 - 150	
Bifenazate	0.00	0.408	0.379	0.400	7.3%	< 30	102.0%	94.8%	50 - 150	
Bifenthrin	0.00	0.377	0.390	0.400	3.2%	< 30	94.2%	97.3%	50 - 150	
Boscalid	0.00	0.697	0.799	0.800	13.6%	< 30	87.1%	99.8%	50 - 150	
Carbaryl	0.00	0.394	0.411	0.400	4.1%	< 30	98.6%	102.7%	50 - 150	
Carbendazim	0.00	0.387	0.402	0.400	3.7%	< 30	96.8%	100.5%	50 - 150	
Chlorantraniliprole	0.00	0.398	0.368	0.400	7.8%	< 30	99.4%	91.3%	50 - 150	
Chlorfenapyr	0.00	1.849	1.897	2.000	2.6%	< 30	92.4%	94.8%	50 - 150	
Chlorpyrifos	0.00	0.388	0.390	0.400	0.4%	< 30	97.0%	97.4%	50 - 150	
Clofentezine	0.00	0.287	0.297	0.400	3.6%	< 30	71.7%	74.3%	50 - 150	
Cyfluthrin	0.00	1.646	1.930	2.000	15.9%	< 30	82.3%	96.3%	30 - 150	
Cypermethrin	0.00	1.878	1.959	2.000	4.2%	< 30	93.9%	97.9%	50 - 150	
Daminozide	0.00	0.705	0.727	2.000	3.1%	< 30	35.3%	36.4%	30 - 150	
Diazinon	0.00	0.357	0.370	0.400	3.7%	< 30	89.1%	92.5%	50 - 150	
Dichlorvos	0.00	2.051	1.998	2.000	2.6%	< 30	102.6%	99.9%	50 - 150	
Dimethoate	0.00	0.381	0.394	0.400	3.3%	< 30	95.2%	98.4%	50 - 150	
Ethioniazole	0.00	0.377	0.385	0.400	2.1%	< 30	94.2%	96.2%	50 - 150	
Etofenprox	0.00	0.767	0.775	0.800	1.0%	< 30	95.9%	96.9%	50 - 150	
Etoxazole	0.00	0.384	0.388	0.400	1.0%	< 30	96.1%	97.1%	50 - 150	
Fenoxycarb	0.00	0.387	0.398	0.400	3.0%	< 30	96.7%	99.6%	50 - 150	
Fenpyroximate	0.00	0.769	0.809	0.800	5.1%	< 30	96.1%	101.2%	50 - 150	
Fipronil	0.00	0.727	0.718	0.800	1.2%	< 30	90.9%	89.8%	50 - 150	
Fonicamid	0.00	0.943	0.962	1.000	2.0%	< 30	94.3%	96.2%	50 - 150	
Fludioxonil	0.00	0.742	0.793	0.800	6.6%	< 30	92.7%	99.1%	50 - 150	
Hexythiazox	0.00	1.150	1.219	1.000	5.8%	< 30	115.0%	121.9%	50 - 150	
Imazalil	0.00	0.386	0.387	0.400	0.1%	< 30	96.6%	96.8%	50 - 150	
Imidacloprid	0.00	0.766	0.786	0.800	2.5%	< 30	95.8%	98.2%	50 - 150	
Kiesoxim-methyl	0.00	0.751	0.785	0.800	4.5%	< 30	93.8%	98.1%	50 - 150	
Malathion	0.00	0.386	0.396	0.400	2.4%	< 30	96.9%	98.9%	50 - 150	
Metaxyl	0.00	0.387	0.393	0.400	1.5%	< 30	96.7%	98.3%	50 - 150	
Methiocarb	0.00	0.358	0.355	0.400	9.9%	< 30	89.5%	98.8%	50 - 150	
Methomyl	0.00	0.766	0.667	0.800	13.7%	< 30	95.7%	83.4%	50 - 150	
MCK-264	0.00	0.408	0.410	0.400	1.8%	< 30	100.8%	102.6%	50 - 150	
Mydobutani	0.00	0.398	0.400	0.400	0.4%	< 30	99.6%	99.9%	50 - 150	
Naled	0.00	0.922	0.965	1.000	4.5%	< 30	92.2%	96.5%	50 - 150	
Oxaryl	0.00	1.910	2.137	2.000	11.2%	< 30	95.5%	106.8%	50 - 150	
Padobutrazole	0.00	0.759	0.767	0.800	1.0%	< 30	94.9%	95.8%	50 - 150	
Parathion-Methyl	0.00	0.395	0.419	0.400	5.9%	< 30	98.8%	104.7%	30 - 150	
Permethrin	0.00	0.478	0.355	0.400	29.9%	< 30	119.6%	88.8%	50 - 150	
Phosmet	0.00	0.384	0.396	0.400	3.1%	< 30	95.9%	98.9%	50 - 150	
Piperonyl butoxide	0.00	1.897	1.911	2.000	0.7%	< 30	94.9%	95.9%	50 - 150	
Prallethrin	0.00	0.388	0.398	0.400	2.6%	< 30	97.0%	99.6%	50 - 150	
Propiconazole	0.00	0.769	0.755	0.800	1.8%	< 30	96.1%	94.4%	50 - 150	
Propoxur	0.00	0.390	0.396	0.400	1.5%	< 30	97.5%	99.0%	50 - 150	
Pyrethrin (Summe)	0.00	0.467	0.469	0.488	0.6%	< 30	95.6%	96.1%	50 - 150	
Pyridaben	0.00	0.422	0.434	0.400	2.8%	< 30	105.5%	108.5%	50 - 150	
Spirosad	0.00	0.377	0.390	0.388	3.2%	< 30	97.3%	100.5%	50 - 150	
Spiromesfen	0.00	0.388	0.390	0.400	0.6%	< 30	97.0%	97.6%	50 - 150	
Spirotetramat	0.00	0.392	0.397	0.400	1.2%	< 30	98.1%	99.2%	50 - 150	
Spiroxamine	0.00	0.769	0.775	0.800	0.8%	< 30	96.1%	96.9%	50 - 150	
Tebuconazole	0.00	0.755	0.769	0.800	1.8%	< 30	94.4%	96.2%	50 - 150	
Thiadoprid	0.00	0.380	0.392	0.400	3.2%	< 30	94.9%	98.0%	50 - 150	
Thiamethoxam	0.00	0.407	0.385	0.400	5.4%	< 30	101.7%	96.4%	50 - 150	
Trifloxystrobin	0.00	0.381	0.377	0.400	1.1%	< 30	95.3%	94.3%	50 - 150	



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2312771					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		498	584	µg/g	85.3	60 - 120	
Isobutane	ND	< 200		598	767	µg/g	78.0	60 - 120	
Butane	ND	< 200		565	782	µg/g	72.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		811	939	µg/g	86.4	60 - 120	
Methanol	ND	< 200		1640	1600	µg/g	102.5	60 - 120	
Ethylene Oxide	ND	< 30		46	57.1	µg/g	80.6	60 - 120	
2-Methylbutane	ND	< 200		1660	1600	µg/g	103.8	60 - 120	
Pentane	ND	< 200		1630	1600	µg/g	101.9	60 - 120	
Ethanol	ND	< 200		1530	1600	µg/g	95.6	70 - 130	
Ethyl Ether	ND	< 200		1590	1600	µg/g	99.4	60 - 120	
2,2-Dimethylbutane	ND	< 30		161	161	µg/g	100.0	60 - 120	
Acetone	ND	< 200		1610	1600	µg/g	100.6	60 - 120	
2-Propanol	ND	< 200		1500	1600	µg/g	93.8	60 - 120	
Ethyl Formate	ND	< 500		2790	1600	µg/g	174.4	70 - 130	Q6
Acetonitrile	ND	< 100		484	488	µg/g	99.2	60 - 120	
Methyl Acetate	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		164	163	µg/g	100.6	60 - 120	
Dichloromethane	ND	< 60		453	488	µg/g	92.8	60 - 120	
2-Methylpentane	ND	< 30		158	161	µg/g	98.1	60 - 120	
MTBE	ND	< 500		1590	1650	µg/g	96.4	70 - 130	
3-Methylpentane	ND	< 30		151	162	µg/g	93.2	60 - 120	
Hexane	ND	< 30		150	161	µg/g	93.2	60 - 120	
1-Propanol	ND	< 500		1540	1620	µg/g	95.1	70 - 130	
Methyl ethyl ketone	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
Ethyl acetate	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
2-Butanol	ND	< 200		1350	1610	µg/g	83.9	60 - 120	
Tetrahydrofuran	ND	< 100		446	483	µg/g	92.3	60 - 120	
Cyclohexane	ND	< 200		1490	1600	µg/g	93.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
Benzene	ND	< 1		4.57	4.99	µg/g	91.6	60 - 120	
Isopropyl Acetate	ND	< 200		1500	1600	µg/g	93.8	60 - 120	
Heptane	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
1-Butanol	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
Propyl Acetate	ND	< 500		1360	1610	µg/g	84.5	70 - 130	
1,4-Dioxane	ND	< 100		396	480	µg/g	82.5	60 - 120	
2-Ethoxyethanol	ND	< 30		111	161	µg/g	68.9	60 - 120	
Methylisobutylketone	ND	< 500		1350	1610	µg/g	83.9	70 - 130	
3-Methyl-1-butanol	ND	< 500		1380	1610	µg/g	84.5	70 - 130	
Ethylene Glycol	ND	< 200		92.8	481	µg/g	19.3	60 - 120	Q6
Toluene	ND	< 100		389	483	µg/g	80.5	60 - 120	
Isobutyl Acetate	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
1-Pentanol	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
Butyl Acetate	ND	< 500		1280	1600	µg/g	80.0	70 - 130	
Ethylbenzene	ND	< 200		701	962	µg/g	72.9	60 - 120	
m,p-Xylene	ND	< 200		703	994	µg/g	70.7	60 - 120	
o-Xylene	ND	< 200		678	965	µg/g	70.3	60 - 120	
Cumene	ND	< 30		118	169	µg/g	68.6	60 - 120	
Anisole	ND	< 500		1110	1600	µg/g	69.4	70 - 130	Q6
DMSO	ND	< 500		823	1600	µg/g	51.4	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		137	163	µg/g	84.0	70 - 130	
Triethylamine	ND	< 500		869	1600	µg/g	54.3	70 - 130	Q6
N,N-dimethylformamide	ND	< 150		367	482	µg/g	76.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		350	483	µg/g	72.5	70 - 130	
Pyridine	ND	< 50		119	161	µg/g	73.9	70 - 130	
Silfolane	ND	< 50		102	163	µg/g	62.6	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.835	1	µg/g	83.5	70 - 130	
Chloroform	ND	< 1		0.842	1	µg/g	84.2	70 - 130	
Trichloroethylene	ND	< 1		0.758	1	µg/g	75.8	70 - 130	
1,1-Dichloroethane	ND	< 1		0.82	1	µg/g	82.0	70 - 130	



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QC - Sample Duplicate Sample ID: 23-013106-0001

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	
Methylethylketone	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



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



Report Number: 23-013197/D020.R000
Report Date: 11/15/2023
ORELAP#: OR100028
Purchase Order: 2715879
Received: 11/07/23 16:04





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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.