

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.



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

Customer: Etz Hayim Holdings
Product identity: FORM-MO.O.FS8-FD01
Client/Metric ID: .
Laboratory ID: 23-004015-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.140		mg/1g		CBD-Total per Serving Size 8.74 mg/1g
CBD per 1g	8.74		mg/1g		
CBDV per 1g	0.141		mg/1g		THC-Total per Serving Size 0.296 mg/1g
CBE per 1g	0.129		mg/1g		(Reported in milligrams per serving)
CBG per 1g	0.0894		mg/1g		
CBT per 1g	0.234		mg/1g		
Δ9-THC per 1g	0.296		mg/1g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

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

Product identity: FORM-MO.O.FS8-FD01

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-004015-0002

Evidence of Cooling: No

Temp: 17.4 °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: 2306055	Analyze: 4/10/23 1:50:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.140		mg/1g	0.0321	
CBC-A per 1g	< LOQ		mg/1g	0.0321	
CBC-Total per 1g	0.140		mg/1g	0.0603	
CBD per 1g	8.74		mg/1g	0.0321	
CBD-A per 1g	< LOQ		mg/1g	0.0321	
CBD-Total per 1g	8.74		mg/1g	0.0603	
CBDV per 1g	0.141		mg/1g	0.0321	
CBDV-A per 1g	< LOQ		mg/1g	0.0321	
CBDV-Total per 1g	0.141		mg/1g	0.0600	
CBE per 1g	0.129		mg/1g	0.0321	
CBG per 1g	0.0894		mg/1g	0.0321	
CBG-A per 1g	< LOQ		mg/1g	0.0321	
CBG-Total per 1g	0.0894		mg/1g	0.0600	
CBL per 1g	< LOQ		mg/1g	0.0321	
CBL-A per 1g	< LOQ		mg/1g	0.0321	
CBL-Total per 1g	< LOQ		mg/1g	0.0603	
CBN per 1g	< LOQ		mg/1g	0.0321	
CBT per 1g	0.234		mg/1g	0.0321	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0321	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0643	
Δ8-THC per 1g	< LOQ		mg/1g	0.0321	
Δ9-THC per 1g	0.296		mg/1g	0.0321	
exo-THC per 1g	< LOQ		mg/1g	0.0321	
THC-A per 1g	< LOQ		mg/1g	0.0321	
THC-Total per 1g	0.296		mg/1g	0.0603	
THCV per 1g	< LOQ		mg/1g	0.0321	
THCV-A per 1g	< LOQ		mg/1g	0.0321	
THCV-Total per 1g	< LOQ		mg/1g	0.0604	



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^P	Units mg/se	Batch: 2306055	Analyze: 4/10/23 1:50:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	9.77		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2305984	04/10/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2305984	04/10/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2305985	04/11/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2305985	04/11/23 AOAC 2014.05 (RAPID) ^P		

Solvents	Method: Residual Solvents by GC/MS ^P					Units µg/g	Batch 2306239	Analyze 04/13/23 12:14 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	< 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** 2306158 **Analyze** 04/11/23 03:46 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	
Bifentazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass	
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass	
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< LOQ	1.0	0.500	pass		Daminozide [‡]	< LOQ	1.0	0.500	pass	
Diazinon [‡]	< LOQ	0.20	0.100	pass		Dichlorvos [‡]	< LOQ	1.0	0.500	pass	
Dimethoate [‡]	< LOQ	0.20	0.100	pass		Ethoprophos [‡]	< LOQ	0.20	0.100	pass	
Etofenprox [‡]	< LOQ	0.40	0.200	pass		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	0.0834	2306509	04/18/23 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0834	2306509	04/18/23 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0834	2306509	04/18/23 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0417	2306509	04/18/23 AOAC 2013.06 (mod.) ^b	pass	



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

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



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

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

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2306055

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0334	0.033	%	100	80.0	- 120	Acceptable	
CBDV	2	0.0333	0.033	%	99.8	80.0	- 120	Acceptable	
CBE	2	0.0337	0.033	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0294	0.031	%	95.1	90.0	- 110	Acceptable	
CBGA	1	0.0247	0.026	%	95.9	80.0	- 120	Acceptable	
CBG	1	0.0299	0.031	%	96.2	80.0	- 120	Acceptable	
CBD	1	0.0258	0.027	%	94.2	90.0	- 110	Acceptable	
THCV	2	0.0330	0.033	%	98.9	80.0	- 120	Acceptable	
d8THCV	2	0.0326	0.033	%	97.8	80.0	- 120	Acceptable	
THCVA	2	0.0332	0.033	%	99.7	80.0	- 120	Acceptable	
CBN	1	0.0265	0.027	%	98.0	80.0	- 120	Acceptable	
exo-THC	2	0.0320	0.033	%	95.9	80.0	- 120	Acceptable	
d9THC	1	0.0315	0.031	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0310	0.031	%	99.4	90.0	- 110	Acceptable	
9S-d10THC	1	0.0313	0.031	%	99.7	80.0	- 120	Acceptable	
CBL	2	0.0340	0.033	%	102	80.0	- 120	Acceptable	
9R-d10THC	1	0.0275	0.032	%	86.0	80.0	- 120	Acceptable	
CBC	2	0.0334	0.033	%	100	80.0	- 120	Acceptable	
THCA	1	0.0327	0.036	%	91.1	90.0	- 110	Acceptable	
CBCA	2	0.0341	0.033	%	102	80.0	- 120	Acceptable	
CBLA	2	0.0339	0.033	%	102	80.0	- 120	Acceptable	
CBT	2	0.0319	0.033	%	95.6	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
9S-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

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

Units of Measure:
 % - Percent



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

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

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2308055						
Sample Duplicate		Sample ID: 23-003937-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.0138	0.0138	0.003	%	0.0358	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

Revision: 3 Document ID: 3120
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2306158			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		1.017	1.000	101.7	50.0	150
Acephate	0.000	< 0.200		0.767	0.800	95.9	60.0	120
Acequinocyl	0.000	< 1.000		3.907	4.000	97.7	40.0	160
Acetamiprid	0.000	< 0.100		0.417	0.400	104.2	60.0	120
Aldicarb	0.000	< 0.200		0.799	0.800	99.8	60.0	120
Azoxystrobin	0.000	< 0.100		0.413	0.400	103.2	60.0	120
Bifenazate	0.000	< 0.100		0.419	0.400	104.7	60.0	120
Bifenthrin	0.000	< 0.100		0.397	0.400	99.2	50.0	150
Boscalid	0.000	< 0.200		0.738	0.800	92.3	60.0	120
Carbaryl	0.000	< 0.100		0.406	0.400	101.4	60.0	120
Carbofuran	0.000	< 0.100		0.405	0.400	101.3	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.413	0.400	103.3	60.0	120
Chlorfenapyr	0.000	< 0.500		1.937	2.000	96.9	60.0	120
Chlorpyrifos	0.000	< 0.100		0.397	0.400	99.2	60.0	120
Clofentazine	0.000	< 0.100		0.396	0.400	99.1	60.0	120
Cyfluthrin	0.000	< 0.500		1.993	2.000	99.7	50.0	150
Cypermethrin	0.000	< 0.500		1.973	2.000	98.6	50.0	150
Daminozide	0.000	< 0.500		2.054	2.000	102.7	60.0	120
Diazinon	0.000	< 0.100		0.448	0.400	112.0	60.0	120
Dichlorvos	0.000	< 0.500		2.194	2.000	109.7	60.0	120
Dimethoate	0.000	< 0.100		0.402	0.400	100.5	60.0	120
Ethoprophos	0.000	< 0.100		0.419	0.400	104.7	60.0	120
Etofenprox	0.000	< 0.200		0.752	0.800	94.0	50.0	150
Etoxazole	0.000	< 0.100		0.428	0.400	106.9	60.0	120
Fenoxycarb	0.000	< 0.100		0.425	0.400	106.2	60.0	120
Fenpyroximate	0.000	< 0.200		0.796	0.800	99.5	60.0	120
Fipronil	0.000	< 0.200		0.809	0.800	101.1	60.0	120
Fonicamid	0.000	< 0.250		0.922	1.000	92.2	60.0	120
Fludioxonil	0.000	< 0.200		0.895	0.800	111.9	50.0	150
Hexythiazox	0.000	< 0.250		1.019	1.000	101.9	60.0	120
Imazalil	0.000	< 0.100		0.390	0.400	97.4	60.0	120
Imidacloprid	0.000	< 0.200		0.809	0.800	101.1	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.788	0.800	98.4	60.0	120
Malathion	0.000	< 0.100		0.414	0.400	103.4	60.0	120
Metaxalyl	0.000	< 0.100		0.422	0.400	105.4	60.0	120
Methiocarb	0.000	< 0.100		0.388	0.400	97.1	60.0	120
Methomyl	0.000	< 0.200		0.752	0.800	94.0	60.0	120
MGK-264	0.000	< 0.100		0.374	0.400	93.4	50.0	150
Myclobutanil	0.000	< 0.100		0.390	0.400	97.4	60.0	120
Naled	0.000	< 0.250		0.980	1.000	98.0	50.0	150
Oxamyl	0.000	< 0.500		2.018	2.000	100.9	60.0	120
Pacllobutrazole	0.000	< 0.200		0.856	0.800	107.0	60.0	120
Parathion-Methyl	0.000	< 0.100		0.365	0.400	91.3	50.0	150
Permethrin	0.000	< 0.100		0.378	0.400	94.5	50.0	150
Phosmet	0.000	< 0.100		0.396	0.400	98.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.332	2.000	116.6	60.0	120
Prallethrin	0.000	< 0.100		0.413	0.400	103.2	60.0	120
Propiconazole	0.000	< 0.200		0.815	0.800	101.8	60.0	120
Propoxur	0.000	< 0.100		0.411	0.400	102.8	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.496	0.488	101.6	60.0	120
Pyridaben	0.000	< 0.100		0.401	0.400	100.3	50.0	150
Spirosad	0.000	< 0.100		0.405	0.388	104.4	50.0	150
Spiromesifen	0.000	< 0.100		0.397	0.400	99.2	60.0	120
Spirotetramat	0.000	< 0.100		0.400	0.400	100.1	60.0	120
Spiroxamine	0.000	< 0.200		0.830	0.800	103.7	60.0	120
Tebuconazole	0.000	< 0.200		0.809	0.800	101.2	60.0	120
Thiacloprid	0.000	< 0.100		0.407	0.400	101.8	60.0	120
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.8	60.0	120
Trifloxystrobin	0.000	< 0.100		0.422	0.400	105.4	60.0	120



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2306158			Sample ID: 230036840001
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.000	1.005	1.030	1.000	2.5%	< 30	100.5%	103.0%	50 - 150	
Acephate	0.000	0.787	0.754	0.800	4.3%	< 30	98.4%	94.3%	50 - 150	
Acetaminocyl	0.000	3.722	3.736	4.000	0.4%	< 30	93.0%	93.4%	50 - 150	
Acetamiprid	0.000	0.437	0.417	0.400	4.8%	< 30	109.4%	104.2%	50 - 150	
Aldicarb	0.000	0.859	0.814	0.800	5.4%	< 30	107.4%	101.7%	50 - 150	
Azoxystrobin	0.000	0.439	0.429	0.400	2.3%	< 30	109.9%	107.4%	50 - 150	
Bifenazate	0.000	0.482	0.459	0.400	4.8%	< 30	120.5%	114.8%	50 - 150	
Bifenthrin	0.000	0.390	0.527	0.400	29.9%	< 30	97.4%	131.7%	50 - 150	
Boscalid	0.000	0.844	0.883	0.800	4.6%	< 30	105.5%	110.4%	50 - 150	
Carbaryl	0.000	0.407	0.398	0.400	2.3%	< 30	101.8%	99.5%	50 - 150	
Carbofuran	0.000	0.407	0.403	0.400	1.0%	< 30	101.7%	100.7%	50 - 150	
Chlorantraniliprole	0.000	0.431	0.471	0.400	8.8%	< 30	107.8%	117.7%	50 - 150	
Chlorfenapyr	0.000	2.274	2.241	2.000	1.4%	< 30	113.7%	112.1%	50 - 150	
Chlorpyrifos	0.000	0.046	0.038	0.400	18.6%	< 30	11.6%	9.6%	50 - 150	Q
Clofentezine	0.000	0.386	0.372	0.400	3.7%	< 30	96.6%	93.1%	50 - 150	
Cyfluthrin	0.000	1.917	1.917	2.000	0.0%	< 30	95.8%	95.8%	30 - 150	
Cypermethrin	0.000	2.509	2.468	2.000	1.6%	< 30	125.4%	123.4%	50 - 150	
Daminozide	0.000	2.127	2.205	2.000	3.6%	< 30	106.3%	110.2%	30 - 150	
Diazinon	0.000	0.465	0.459	0.400	1.2%	< 30	116.3%	114.9%	50 - 150	
Dichlorvos	0.000	2.336	2.215	2.000	5.3%	< 30	116.8%	110.8%	50 - 150	
Dimethoate	0.000	0.416	0.410	0.400	1.4%	< 30	104.0%	102.6%	50 - 150	
Ethoprophos	0.000	0.450	0.419	0.400	7.3%	< 30	112.6%	104.7%	50 - 150	
Etofenprox	0.000	0.817	0.945	0.800	14.5%	< 30	102.1%	118.1%	50 - 150	
Etoxazole	0.000	0.446	0.440	0.400	1.5%	< 30	111.6%	109.9%	50 - 150	
Fenoxycarb	0.000	0.423	0.420	0.400	0.6%	< 30	105.7%	105.0%	50 - 150	
Fenpyroximate	0.000	0.835	0.818	0.800	1.9%	< 30	104.3%	102.3%	50 - 150	
Fipronil	0.000	0.787	0.780	0.800	0.8%	< 30	98.3%	97.5%	50 - 150	
Fonicamid	0.000	1.007	0.908	1.000	10.3%	< 30	100.7%	90.8%	50 - 150	
Fludioxonil	0.000	0.930	0.822	0.800	12.3%	< 30	116.2%	102.7%	50 - 150	
Hexythiazox	0.000	0.161	0.161	1.000	0.2%	< 30	16.1%	16.1%	50 - 150	Q
Imazalil	0.000	0.439	0.426	0.400	3.0%	< 30	109.8%	106.6%	50 - 150	
Imidacloprid	0.000	0.835	0.832	0.800	0.4%	< 30	104.4%	104.0%	50 - 150	
Kresoxim-methyl	0.000	0.844	0.797	0.800	5.6%	< 30	105.4%	99.7%	50 - 150	
Malathion	0.000	0.438	0.418	0.400	4.5%	< 30	109.4%	104.6%	50 - 150	
Metaxalyl	0.000	0.445	0.426	0.400	4.5%	< 30	111.3%	106.4%	50 - 150	
Methiocarb	0.000	0.416	0.399	0.400	4.1%	< 30	104.0%	99.8%	50 - 150	
Methomyl	0.000	0.937	0.761	0.800	20.8%	< 30	117.2%	95.1%	50 - 150	
MGK-264	0.000	0.415	0.446	0.400	7.2%	< 30	103.8%	111.5%	50 - 150	
Myclobutanil	0.000	0.435	0.397	0.400	9.2%	< 30	108.8%	99.3%	50 - 150	
Naled	0.000	1.004	0.959	1.000	4.6%	< 30	100.4%	95.9%	50 - 150	
Oxamyl	0.000	2.294	2.046	2.000	11.4%	< 30	114.7%	102.3%	50 - 150	
Pacllobutrazole	0.000	0.924	0.909	0.800	1.6%	< 30	115.5%	113.6%	50 - 150	
Parathion-Methyl	0.000	0.341	0.316	0.400	7.7%	< 30	85.2%	78.9%	30 - 150	
Permethrin	0.000	0.459	0.501	0.400	8.8%	< 30	114.7%	125.4%	50 - 150	
Phosmet	0.000	0.416	0.415	0.400	0.3%	< 30	104.0%	103.8%	50 - 150	
Piperonyl butoxide	0.000	2.456	2.347	2.000	4.5%	< 30	122.8%	117.4%	50 - 150	
Prallethrin	0.004	0.276	0.265	0.400	4.2%	< 30	67.9%	65.1%	50 - 150	
Propiconazole	0.000	0.835	0.847	0.800	1.4%	< 30	104.4%	105.9%	50 - 150	
Propoxur	0.000	0.440	0.426	0.400	3.2%	< 30	109.9%	106.4%	50 - 150	
Pyrethrin (Summe)	0.000	0.809	0.813	0.488	0.5%	< 30	165.7%	166.6%	50 - 150	Q
Pyridaben	0.000	0.481	0.472	0.400	1.9%	< 30	120.3%	118.1%	50 - 150	
Spinosad	0.000	0.431	0.427	0.388	0.9%	< 30	111.0%	110.0%	50 - 150	
Spiromesifen	0.000	0.396	0.378	0.400	4.7%	< 30	99.1%	94.5%	50 - 150	
Spirotetramat	0.000	0.419	0.415	0.400	1.1%	< 30	104.8%	103.6%	50 - 150	
Spiroxamine	0.000	0.880	0.855	0.800	2.9%	< 30	110.0%	106.9%	50 - 150	
Tebuconazole	0.000	0.794	0.784	0.800	1.2%	< 30	99.3%	98.1%	50 - 150	
Thiacloprid	0.000	0.430	0.417	0.400	3.0%	< 30	107.5%	104.3%	50 - 150	
Thiamethoxam	0.000	0.464	0.407	0.400	13.0%	< 30	115.9%	101.7%	50 - 150	
Trifloxystrobin	0.157	0.680	0.677	0.400	0.7%	< 30	130.8%	129.9%	50 - 150	



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

Report Number: 23-004015/D005.R000
 Report Date: 04/19/2023
 ORELAP#: OR100028
 Purchase Order:
 Received: 04/06/23 15:53



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2306239						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		468	584	µg/g	80.1	60 - 120		
Isobutane	ND	< 200		582	767	µg/g	75.9	60 - 120		
Butane	ND	< 200		588	782	µg/g	75.2	60 - 120		
2,2-Dimethylpropane	ND	< 200		787	939	µg/g	83.8	60 - 120		
Methanol	ND	< 200		1360	1610	µg/g	84.5	60 - 120		
Ethylene Oxide	ND	< 30		45.4	57.1	µg/g	79.5	60 - 120		
2-Methylbutane	ND	< 200		1400	1600	µg/g	87.5	60 - 120		
Pentane	ND	< 200		1400	1610	µg/g	87.0	60 - 120		
Ethanol	ND	< 200		1390	1600	µg/g	86.9	70 - 130		
Ethyl Ether	ND	< 200		1400	1610	µg/g	87.0	60 - 120		
2,2-Dimethylbutane	ND	< 30		150	173	µg/g	86.7	60 - 120		
Acetone	ND	< 200		1390	1620	µg/g	85.8	60 - 120		
2-Propanol	ND	< 200		1370	1600	µg/g	85.6	60 - 120		
Ethyl Formate	ND	< 500		1420	1610	µg/g	88.2	70 - 130		
Acetonitrile	ND	< 100		421	488	µg/g	86.3	60 - 120		
Methyl Acetate	ND	< 500		1350	1610	µg/g	83.9	70 - 130		
2,3-Dimethylbutane	ND	< 30		142	165	µg/g	86.1	60 - 120		
Dichloromethane	ND	< 60		415	487	µg/g	85.2	60 - 120		
2-Methylpentane	ND	< 30		135	160	µg/g	84.4	60 - 120		
MTBE	ND	< 500		1340	1600	µg/g	83.8	70 - 130		
3-Methylpentane	ND	< 30		139	161	µg/g	86.3	60 - 120		
Hexane	ND	< 30		138	162	µg/g	85.2	60 - 120		
1-Propanol	ND	< 500		1410	1620	µg/g	87.0	70 - 130		
Methylethylketone	ND	< 500		1360	1610	µg/g	84.5	70 - 130		
Ethyl acetate	ND	< 200		1340	1600	µg/g	83.8	60 - 120		
2-Butanol	ND	< 200		1330	1610	µg/g	82.6	60 - 120		
Tetrahydrofuran	ND	< 100		411	483	µg/g	85.1	60 - 120		
Cyclohexane	ND	< 200		1330	1610	µg/g	82.6	60 - 120		
2-methyl-1-propanol	ND	< 500		1310	1630	µg/g	80.4	70 - 130		
Benzene	ND	< 1		3.31	4.98	µg/g	66.5	60 - 120		
Isopropyl Acetate	ND	< 200		1320	1610	µg/g	82.0	60 - 120		
Heptane	ND	< 200		1320	1620	µg/g	81.5	60 - 120		
1-Butanol	ND	< 500		1300	1600	µg/g	81.3	70 - 130		
Propyl Acetate	ND	< 500		1320	1620	µg/g	81.5	70 - 130		
1,4-Dioxane	ND	< 100		385	494	µg/g	77.9	60 - 120		
2-Ethoxyethanol	ND	< 30		130	165	µg/g	78.8	60 - 120		
Methylisobutylketone	ND	< 500		1280	1610	µg/g	79.5	70 - 130		
3-Methyl-1-butanol	ND	< 500		1300	1610	µg/g	80.7	70 - 130		
Ethylene Glycol	ND	< 200		343	488	µg/g	70.6	60 - 120		
Toluene	ND	< 100		377	513	µg/g	73.5	60 - 120		
Isobutyl Acetate	ND	< 500		1260	1600	µg/g	78.8	70 - 130		
1-Pentanol	ND	< 500		1270	1610	µg/g	78.9	70 - 130		
Butyl Acetate	ND	< 500		1240	1610	µg/g	77.0	70 - 130		
Ethylbenzene	ND	< 200		724	967	µg/g	74.9	60 - 120		
m,p-Xylene	ND	< 200		1030	994	µg/g	103.6	60 - 120		
o-Xylene	ND	< 200		723	992	µg/g	72.9	60 - 120		
Cumene	ND	< 30		123	171	µg/g	71.9	60 - 120		
Anisole	ND	< 500		1110	1610	µg/g	68.9	70 - 130	Q6	
DMSO	ND	< 500		1210	1610	µg/g	75.2	70 - 130		
1,2-dimethoxyethane	ND	< 50		145	172	µg/g	84.3	70 - 130		
Triethylamine	ND	< 500		1320	1620	µg/g	81.5	70 - 130		
N,N-dimethylformamide	ND	< 150		376	499	µg/g	75.4	70 - 130		
N,N-dimethylacetamide	ND	< 150		362	491	µg/g	73.7	70 - 130		
Pyridine	ND	< 50		130	171	µg/g	76.0	70 - 130		
Silfolane	ND	< 50		121	160	µg/g	75.6	70 - 130		
1,2-Dichloroethane	ND	< 1		0.888	1	µg/g	88.8	70 - 130		
Chloroform	ND	< 1		0.933	1	µg/g	93.3	70 - 130		
Trichloroethylene	ND	< 1		0.905	1	µg/g	90.5	70 - 130		
1,1,1-Trichloroethane	ND	< 1		0.9	1	µg/g	90.0	70 - 130		



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53

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

QC- Sample Duplicate Sample ID: 23-003757-0010

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
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g - Microgram per gram or ppm



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



Report Number: 23-004015/D005.R000
Report Date: 04/19/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/06/23 15:53





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.