

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU		BATCH #		LOQ: Limit Of Quantitation LOD: Limit Of Detection 1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb
PRODUCT NAME		SERVING SIZE		
LABORATORY :		OREGON ACCREDITATION: OR100028		
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: 22-014567/D003.R000
Report Date: 12/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/29/22 16:15

Customer: Etz Hayim Holdings
Product identity: FORM-MO.O.FS8-EK39
Client/Metric ID: .
Laboratory ID: 22-014567-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.129		mg/1g		CBD-Total per Serving Size 8.94 mg/1g
CBD per 1g	8.94		mg/1g		
CBDV per 1g	0.161		mg/1g		THC-Total per Serving Size 0.310 mg/1g
CBG per 1g	0.0879		mg/1g		
CBT per 1g	0.246		mg/1g		(Reported in milligrams per serving)
Δ9-THC per 1g	0.310		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.



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

Product identity: FORM-MO.O.FS8-EK39

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-014567-0001

Evidence of Cooling: No

Temp: 19.1

Relinquished by: client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod)		Units mg/se	Batch: 2210225	Analyze: 12/1/22 2:54:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.129		mg/1g	0.0319	
CBC-A per 1g	< LOQ		mg/1g	0.0319	
CBC-Total per 1g	0.129		mg/1g	0.0598	
CBD per 1g	8.94		mg/1g	0.0319	
CBD-A per 1g	< LOQ		mg/1g	0.0319	
CBD-Total per 1g	8.94		mg/1g	0.0598	
CBDV per 1g	0.161		mg/1g	0.0319	
CBDV-A per 1g	< LOQ		mg/1g	0.0319	
CBDV-Total per 1g	0.161		mg/1g	0.0595	
CBE per 1g	< LOQ		mg/1g	0.0319	
CBG per 1g	0.0879		mg/1g	0.0319	
CBG-A per 1g	< LOQ		mg/1g	0.0319	
CBG-Total per 1g	0.0879		mg/1g	0.0595	
CBL per 1g	< LOQ		mg/1g	0.0319	
CBL-A per 1g	< LOQ		mg/1g	0.0319	
CBL-Total per 1g	< LOQ		mg/1g	0.0598	
CBN per 1g	< LOQ		mg/1g	0.0319	
CBT per 1g	0.246		mg/1g	0.0319	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0319	
Δ10-THC per 1g	< LOQ		mg/1g	0.0319	
Δ8-THC per 1g	< LOQ		mg/1g	0.0319	
Δ9-THC per 1g	0.310		mg/1g	0.0319	
exo-THC per 1g	< LOQ		mg/1g	0.0319	
THC-A per 1g	< LOQ		mg/1g	0.0319	
THC-Total per 1g	0.310		mg/1g	0.0598	
THCV per 1g	< LOQ		mg/1g	0.0319	
THCV-A per 1g	< LOQ		mg/1g	0.0319	
THCV-Total per 1g	< LOQ		mg/1g	0.0598	
Total Cannabinoids per 1g	9.87		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2210345	12/08/22 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2210345	12/08/22 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210347	12/09/22 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210347	12/09/22 AOAC 2014.05 (RAPID)		

Solvents

Method: Residual Solvents by GC/MS						Units µg/g	Batch 2210461	Analyze 12/09/22 10:40 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		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)				Units mg/kg	Batch 2210400	Analyze 12/07/22 01:29 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin ^Y	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.200	pass	
Acequinocyl ^Y	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb ^Y	< LOQ	0.40	0.200	pass		Azoxystrobin ^Y	< LOQ	0.20	0.100	pass	
Bifenazate ^Y	< LOQ	0.20	0.100	pass		Bifenthrin ^Y	< LOQ	0.20	0.100	pass	
Boscalid ^Y	< LOQ	0.40	0.200	pass		Carbaryl ^Y	< LOQ	0.20	0.100	pass	
Carbofuran ^Y	< LOQ	0.20	0.100	pass		Chlorantraniliprole ^Y	< LOQ	0.20	0.100	pass	
Chlorfenapyr ^Y	< LOQ	1.0	0.500	pass		Chlorpyrifos ^Y	< LOQ	0.20	0.100	pass	
Clofentezine ^Y	< LOQ	0.20	0.100	pass		Cyfluthrin ^Y	< LOQ	1.0	0.500	pass	
Cypermethrin ^Y	< LOQ	1.0	0.500	pass		Daminozide ^Y	< LOQ	1.0	0.500	pass	
Diazinon ^Y	< LOQ	0.20	0.100	pass		Dichlorvos ^Y	< LOQ	1.0	0.500	pass	
Dimethoate ^Y	< LOQ	0.20	0.100	pass		Ethoprophos ^Y	< LOQ	0.20	0.100	pass	
Etofenprox ^Y	< LOQ	0.40	0.200	pass		Etoxazole ^Y	< LOQ	0.20	0.100	pass	
Fenoxycarb ^Y	< LOQ	0.20	0.100	pass		Fenpyroximate ^Y	< LOQ	0.40	0.200	pass	
Flupyrifur ^Y	< LOQ	0.40	0.200	pass		Flonicamid ^Y	< LOQ	1.0	0.400	pass	
Imazalil ^Y	< LOQ	0.40	0.200	pass		Hexythiazox ^Y	< LOQ	1.0	0.400	pass	
Kresoxim-methyl ^Y	< LOQ	0.40	0.200	pass		Imidacloprid ^Y	< LOQ	0.40	0.200	pass	
Metalaxyl ^Y	< LOQ	0.20	0.100	pass		Malathion ^Y	< LOQ	0.20	0.100	pass	
Methomyl ^Y	< LOQ	0.40	0.200	pass		Methiocarb ^Y	< LOQ	0.20	0.100	pass	
Myclobutanil ^Y	< LOQ	0.20	0.100	pass		MGK-264 ^Y	< LOQ	0.20	0.100	pass	
Oxamyl ^Y	< LOQ	1.0	0.500	pass		Naled ^Y	< LOQ	0.50	0.250	pass	
Parathion-Methyl ^Y	< LOQ	0.20	0.100	pass		Paclobutrazole ^Y	< LOQ	0.40	0.200	pass	
Phosmet ^Y	< LOQ	0.20	0.100	pass		Permethrin ^Y	< LOQ	0.20	0.100	pass	
Prallethrin ^Y	< LOQ	0.20	0.100	pass		Piperonyl butoxide ^Y	< LOQ	2.0	1.00	pass	
Propoxur ^Y	< LOQ	0.20	0.100	pass		Propiconazole ^Y	< LOQ	0.40	0.200	pass	
Pyridaben ^Y	< LOQ	0.20	0.100	pass		Pyrethrin I (total) ^Y	< LOQ	1.0	0.500	pass	
Spiromesifen ^Y	< LOQ	0.20	0.100	pass		Spinosad ^Y	< LOQ	0.20	0.100	pass	
Spiroxamine ^Y	< LOQ	0.40	0.200	pass		Spirotetramat ^Y	< LOQ	0.20	0.100	pass	
Thiacloprid ^Y	< LOQ	0.20	0.100	pass		Tebuconazole ^Y	< LOQ	0.40	0.200	pass	
Trifloxystrobin ^Y	< LOQ	0.20	0.100	pass		Thiamethoxam ^Y	< LOQ	0.20	0.100	pass	

Metals											
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes		
Arsenic	< LOQ	0.200	mg/kg	0.0957	2210479	12/09/22	AOAC 2013.06 (mod.)	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0957	2210479	12/09/22	AOAC 2013.06 (mod.)	pass			
Lead	< LOQ	0.500	mg/kg	0.0957	2210479	12/09/22	AOAC 2013.06 (mod.)	pass			
Mercury	< LOQ	0.100	mg/kg	0.0479	2210479	12/09/22	AOAC 2013.06 (mod.)	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.

¥ = 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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503-254-1794



Report Number: 22-014567/D003.R000
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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC 2015 V98-6 Batch ID: 2210225

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0332	0.034	%	97.4	80.0 - 120	Acceptable		
CBDV	2	0.0346	0.035	%	97.7	80.0 - 120	Acceptable		
CBE	2	0.0345	0.035	%	97.4	80.0 - 120	Acceptable		
CBD	1	0.0303	0.032	%	94.9	90.0 - 110	Acceptable		
CBG ^A	1	0.0306	0.032	%	95.2	80.0 - 120	Acceptable		
CBG	1	0.0307	0.032	%	96.5	80.0 - 120	Acceptable		
CBD	1	0.0303	0.032	%	95.0	90.0 - 110	Acceptable		
THCV	2	0.0333	0.034	%	98.0	80.0 - 120	Acceptable		
dBTHCV	2	0.0348	0.036	%	96.2	80.0 - 120	Acceptable		
THCVA	2	0.0323	0.033	%	97.4	80.0 - 120	Acceptable		
CBN	1	0.0316	0.033	%	95.7	80.0 - 120	Acceptable		
exo-THC	2	0.0318	0.033	%	97.2	80.0 - 120	Acceptable		
dBTHC	1	0.0333	0.034	%	98.1	90.0 - 110	Acceptable		
dBTHC	1	0.0317	0.033	%	95.1	90.0 - 110	Acceptable		
CBL	2	0.0332	0.033	%	99.4	80.0 - 120	Acceptable		
dBTHC	1	0.0296	0.031	%	96.3	80.0 - 120	Acceptable		
CBC	2	0.0338	0.035	%	96.8	80.0 - 120	Acceptable		
THCA	1	0.0303	0.032	%	94.8	90.0 - 110	Acceptable		
CBCA	2	0.0330	0.034	%	96.2	80.0 - 120	Acceptable		
CBLA	2	0.0343	0.035	%	97.2	80.0 - 120	Acceptable		
CBT	2	0.0353	0.037	%	96.4	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	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
CBG ^A	<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	
dBTHCV	<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	
dBTHC	<LOQ	0.003	%	< 0.003	Acceptable	
dBTHC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
dBTHC	<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



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Laboratory Quality Control Results

JAOAC 2015 V98-6		Batch ID: 2210225						
Sample Duplicate		Sample ID: 22-014540-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0522	0.0519	0.003	%	0.573	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD ^A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.134	0.132	0.003	%	1.05	< 20	Acceptable	
CBD	7.57	7.52	0.003	%	0.573	< 20	Acceptable	
THCV	0.0092	0.0105	0.003	%	13.4	< 20	Acceptable	
Δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0354	0.0346	0.003	%	2.15	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ9THC	1.12	1.12	0.003	%	0.575	< 20	Acceptable	
Δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.281	0.279	0.003	%	0.767	< 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	0.106	0.105	0.003	%	1.14	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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Laboratory Pesticide Quality Control Results

AQAC2007.1 &EN 15662			Units: mg/Kg		Batch ID 2210400				
Method Blank		Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes	
Abamectin	0.000	< 0.250		1.131	1.000	113.1	50.0 150		
Acephate	0.000	< 0.200		0.834	0.800	104.2	60.0 120		
Acetquinoyl	0.000	< 1.000		4.224	4.000	105.6	40.0 160		
Acetamiprid	0.000	< 0.100		0.419	0.400	104.8	60.0 120		
Aldicarb	0.000	< 0.200		0.885	0.800	110.6	60.0 120		
Azoxystrobin	0.000	< 0.100		0.425	0.400	106.4	60.0 120		
Bifenazate	0.000	< 0.100		0.431	0.400	107.9	60.0 120		
Bifenthrin	0.000	< 0.100		0.419	0.400	104.8	50.0 150		
Boscalid	0.000	< 0.200		0.794	0.800	99.3	60.0 120		
Carbaryl	0.000	< 0.100		0.419	0.400	104.7	60.0 120		
Carbofuran	0.000	< 0.100		0.404	0.400	100.9	60.0 120		
Chlorantranilprole	0.000	< 0.100		0.418	0.400	104.4	60.0 120		
Chlorfenapyr	0.000	< 0.500		2.013	2.000	100.7	60.0 120		
Chlorpyrifos	0.000	< 0.100		0.395	0.400	98.8	60.0 120		
Clofentezine	0.000	< 0.100		0.354	0.400	88.5	60.0 120		
Cyfluthrin	0.000	< 0.500		2.127	2.000	106.3	50.0 150		
Cypermethrin	0.000	< 0.500		2.070	2.000	103.5	50.0 150		
Daminozide	0.000	< 0.500		0.698	2.000	34.9	60.0 120		
Diazinon	0.000	< 0.100		0.468	0.400	115.7	60.0 120		
Dichlorvos	0.000	< 0.500		1.965	2.000	98.2	60.0 120		
Dimethoate	0.000	< 0.100		0.414	0.400	103.6	60.0 120		
Ethoprophos	0.000	< 0.100		0.399	0.400	99.7	60.0 120		
Etofenprox	0.000	< 0.200		0.828	0.800	103.5	50.0 150		
Etoxazole	0.000	< 0.100		0.478	0.400	119.6	60.0 120		
Fenoxycarb	0.000	< 0.100		0.428	0.400	107.0	60.0 120		
Fenpyroximate	0.000	< 0.200		0.827	0.800	103.3	60.0 120		
Flpronil	0.000	< 0.200		0.882	0.800	110.3	60.0 120		
Fonicamid	0.000	< 0.250		1.055	1.000	105.5	60.0 120		
Fludioxonil	0.000	< 0.200		0.844	0.800	105.5	50.0 150		
Hexythiazox	0.000	< 0.250		1.023	1.000	102.3	60.0 120		
Imazail	0.000	< 0.100		0.418	0.400	104.6	60.0 120		
Imidacloprid	0.000	< 0.200		0.838	0.800	104.1	60.0 120		
Kiesoxim-methyl	0.000	< 0.200		0.896	0.800	112.0	60.0 120		
Malathion	0.000	< 0.100		0.420	0.400	105.0	60.0 120		
Metolaxyl	0.000	< 0.100		0.418	0.400	104.5	60.0 120		
Methiocarb	0.000	< 0.100		0.422	0.400	105.6	60.0 120		
Methomyl	0.000	< 0.200		0.924	0.800	115.5	60.0 120		
MCK-264	0.000	< 0.100		0.422	0.400	105.5	50.0 150		
Mydobutanil	0.000	< 0.100		0.414	0.400	103.4	60.0 120		
Naled	0.000	< 0.250		1.042	1.000	104.2	50.0 150		
Oxamyl	0.000	< 0.500		2.277	2.000	113.9	60.0 120		
Padobutrazole	0.000	< 0.200		0.898	0.800	107.2	60.0 120		
Parathion-Methyl	0.000	< 0.100		0.398	0.400	99.5	50.0 150		
Permethrin	0.000	< 0.100		0.405	0.400	101.3	50.0 150		
Phosmet	0.000	< 0.100		0.422	0.400	105.6	50.0 150		
Piperonyl butoxide	0.000	< 0.500		2.128	2.000	106.4	60.0 120		
Prallethrin	0.000	< 0.100		0.415	0.400	103.8	60.0 120		
Propiconazole	0.000	< 0.200		0.864	0.800	108.0	60.0 120		
Propoxur	0.000	< 0.100		0.415	0.400	103.7	60.0 120		
Pyrethrin (Summe)	0.000	< 0.100		0.529	0.488	108.4	60.0 120		
Pyridaben	0.000	< 0.100		0.416	0.400	104.1	50.0 150		
Spinosad	0.000	< 0.100		0.414	0.388	106.6	50.0 150		
Spiromesfen	0.000	< 0.100		0.413	0.400	103.2	60.0 120		
Spirotetramat	0.000	< 0.100		0.394	0.400	98.6	60.0 120		
Spiroxamine	0.000	< 0.200		0.840	0.800	105.0	60.0 120		
Tebuconazole	0.000	< 0.200		0.898	0.800	107.3	60.0 120		
Thiadoprid	0.000	< 0.100		0.425	0.400	106.1	60.0 120		
Thiamethoxam	0.000	< 0.100		0.429	0.400	107.1	60.0 120		
Trifloxystrobin	0.000	< 0.100		0.413	0.400	103.3	60.0 120		

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 2210400				
Matrix Spike/Matrix Spike Duplicate Recoveries										Sample ID 220148430001	
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Re	MSD % Re	Limits	Notes	
Abamectin	0.000	1.219	1.288	1.000	5.6%	< 30	121.9%	128.8%	50 - 150		
Acephate	0.000	0.710	0.721	0.800	1.4%	< 30	88.8%	90.1%	50 - 150		
Acequinocyl	0.000	3.929	3.853	4.000	1.9%	< 30	98.2%	96.3%	50 - 150		
Acetamiprid	0.000	0.422	0.432	0.400	2.4%	< 30	105.5%	108.0%	50 - 150		
Aldicarb	0.000	0.864	0.886	0.800	2.4%	< 30	108.0%	110.7%	50 - 150		
Azoxystrobin	0.000	0.410	0.422	0.400	2.9%	< 30	102.5%	105.5%	50 - 150		
Bifenazate	0.000	0.437	0.443	0.400	1.4%	< 30	109.2%	110.7%	50 - 150		
Bifenthrin	0.000	0.387	0.392	0.400	1.2%	< 30	96.8%	97.9%	50 - 150		
Boscalid	0.000	0.773	0.824	0.800	6.4%	< 30	96.6%	103.0%	50 - 150		
Carbaryl	0.000	0.406	0.413	0.400	1.7%	< 30	101.6%	103.3%	50 - 150		
Carbofuran	0.000	0.400	0.402	0.400	0.3%	< 30	100.1%	100.4%	50 - 150		
Chlorantraniliprole	0.000	0.410	0.421	0.400	2.7%	< 30	102.6%	105.3%	50 - 150		
Chlorfenapyr	0.000	1.862	2.081	2.000	11.1%	< 30	93.1%	104.1%	50 - 150		
Chlorpyrifos	0.000	0.412	0.419	0.400	1.6%	< 30	103.1%	104.8%	50 - 150		
Clofentezine	0.000	0.105	0.107	0.400	1.4%	< 30	26.3%	26.7%	50 - 150	Q	
Cyfluthrin	0.000	2.305	2.330	2.000	1.1%	< 30	115.3%	116.5%	30 - 150		
Cypermethrin	0.000	2.569	2.563	2.000	0.2%	< 30	128.4%	128.2%	50 - 150		
Daminozide	0.000	0.471	0.484	2.000	2.9%	< 30	23.9%	24.2%	30 - 150	Q	
Diazinon	0.000	0.416	0.422	0.400	1.3%	< 30	104.1%	105.4%	50 - 150		
Dichlorvos	0.000	1.980	2.022	2.000	2.1%	< 30	99.0%	101.1%	50 - 150		
Dimethoate	0.000	0.410	0.423	0.400	3.1%	< 30	102.5%	105.7%	50 - 150		
Ethionaphos	0.000	0.385	0.412	0.400	6.8%	< 30	96.3%	103.1%	50 - 150		
Etofenprox	0.000	0.671	0.688	0.800	2.5%	< 30	83.9%	86.0%	50 - 150		
Etoxazole	0.000	0.455	0.471	0.400	3.5%	< 30	113.8%	117.8%	50 - 150		
Fenoxycarb	0.000	0.385	0.391	0.400	1.4%	< 30	96.4%	97.8%	50 - 150		
Fenpyroximate	0.000	0.838	0.843	0.800	0.6%	< 30	104.7%	105.4%	50 - 150		
Flpronil	0.000	0.514	0.534	0.800	3.9%	< 30	64.2%	66.7%	50 - 150		
Flonicamid	0.000	1.075	1.098	1.000	2.1%	< 30	107.5%	109.8%	50 - 150		
Fludioxonil	0.000	0.891	0.911	0.800	2.1%	< 30	111.4%	113.8%	50 - 150		
Hexythiazox	0.000	1.019	1.008	1.000	1.6%	< 30	101.9%	100.3%	50 - 150		
Imazalil	0.000	0.409	0.420	0.400	2.6%	< 30	102.2%	104.9%	50 - 150		
Imidacloprid	0.000	0.997	1.042	0.800	4.4%	< 30	124.6%	130.2%	50 - 150		
Kiesoxim-methyl	0.000	0.779	0.789	0.800	1.4%	< 30	97.3%	98.6%	50 - 150		
Malathion	0.000	0.392	0.395	0.400	0.8%	< 30	98.0%	98.8%	50 - 150		
Metolaxyl	0.000	0.408	0.413	0.400	1.3%	< 30	102.0%	103.4%	50 - 150		
Methiocarb	0.000	0.405	0.416	0.400	2.7%	< 30	101.3%	104.1%	50 - 150		
Methomyl	0.000	0.912	0.907	0.800	0.5%	< 30	114.0%	113.4%	50 - 150		
MCK-264	0.000	0.391	0.410	0.400	4.8%	< 30	97.7%	102.5%	50 - 150		
Mydobutanol	0.000	0.402	0.420	0.400	4.4%	< 30	100.5%	104.9%	50 - 150		
Naled	0.000	0.943	0.944	1.000	0.1%	< 30	94.3%	94.4%	50 - 150		
Oxamyl	0.000	2.261	2.257	2.000	0.2%	< 30	113.1%	112.9%	50 - 150		
Padobutrazole	0.000	0.778	0.787	0.800	1.2%	< 30	97.2%	98.4%	50 - 150		
Parathion-Methyl	0.000	0.374	0.408	0.400	8.8%	< 30	93.5%	102.1%	30 - 150		
Permethrin	0.000	0.444	0.448	0.400	0.9%	< 30	111.0%	112.0%	50 - 150		
Phosmet	0.000	0.392	0.389	0.400	0.8%	< 30	98.1%	97.3%	50 - 150		
Piperonyl butoxide	0.099	2.120	2.129	2.000	0.4%	< 30	101.0%	101.5%	50 - 150		
Prallethrin	0.029	0.431	0.446	0.400	3.6%	< 30	100.5%	104.2%	50 - 150		
Propiconazole	0.000	0.728	0.737	0.800	1.2%	< 30	91.0%	92.2%	50 - 150		
Propoxur	0.000	0.402	0.420	0.400	4.5%	< 30	100.5%	105.1%	50 - 150		
Pyrethrin (Summe)	0.000	0.514	0.522	0.488	1.6%	< 30	105.2%	106.9%	50 - 150		
Pyridaben	0.000	0.340	0.342	0.400	0.8%	< 30	84.9%	85.6%	50 - 150		
Spiromesfen	0.000	0.385	0.388	0.388	2.2%	< 30	99.1%	101.4%	50 - 150		
Spiromesfen	0.000	0.380	0.383	0.400	0.8%	< 30	94.9%	95.7%	50 - 150		
Spirotetramat	0.000	0.437	0.448	0.400	2.5%	< 30	109.2%	112.0%	50 - 150		
Spiroxamine	0.000	0.836	0.851	0.800	1.8%	< 30	104.5%	106.4%	50 - 150		
Tebuconazole	0.000	0.798	0.805	0.800	1.6%	< 30	99.1%	100.7%	50 - 150		
Thiadoprid	0.000	0.422	0.438	0.400	3.8%	< 30	105.5%	109.6%	50 - 150		
Thiamethoxam	0.000	0.464	0.442	0.400	4.9%	< 30	116.0%	110.5%	50 - 150		
Trifloxystrobin	0.000	0.388	0.395	0.400	1.6%	< 30	97.1%	98.6%	50 - 150		



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2210461					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Re:	Limits	Notes
Propane	ND	< 200		416	572	µg/g	72.7	60 - 120	
Isobutane	ND	< 200		498	731	µg/g	68.1	60 - 120	
Butane	ND	< 200		474	731	µg/g	64.8	60 - 120	
2,2-Dimethylpropane	ND	< 200		654	936	µg/g	69.9	60 - 120	
Methanol	ND	< 200		1130	1620	µg/g	69.8	60 - 120	
Ethylene Oxide	ND	< 30		39	56.2	µg/g	69.4	60 - 120	
2-Methylbutane	ND	< 200		1160	1610	µg/g	72.0	60 - 120	
Pentane	ND	< 200		1150	1600	µg/g	71.9	60 - 120	
Ethanol	ND	< 200		1060	1610	µg/g	65.8	70 - 130	Q6
Ethyl Ether	ND	< 200		1170	1630	µg/g	71.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		120	171	µg/g	70.2	60 - 120	
Acetone	ND	< 200		1220	1630	µg/g	74.8	60 - 120	
2-Propanol	ND	< 200		1090	1620	µg/g	67.3	60 - 120	
Ethyl Formate	ND	< 500		1430	1670	µg/g	85.6	70 - 130	
Acetonitrile	ND	< 100		346	498	µg/g	69.5	60 - 120	
Methyl Acetate	ND	< 500		1450	1730	µg/g	83.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		128	171	µg/g	74.9	60 - 120	
Dichloromethane	ND	< 60		349	483	µg/g	72.3	60 - 120	
2-Methylpentane	ND	< 30		116	168	µg/g	69.0	60 - 120	
MTBE	ND	< 500		1460	1650	µg/g	88.5	70 - 130	
3-Methylpentane	ND	< 30		103	167	µg/g	61.7	60 - 120	
Hexane	ND	< 30		153	182	µg/g	84.1	60 - 120	
1-Propanol	ND	< 500		1360	1620	µg/g	84.0	70 - 130	
Methyl ethyl ketone	ND	< 500		1370	1620	µg/g	84.6	70 - 130	
Ethyl acetate	ND	< 200		1110	1610	µg/g	68.9	60 - 120	
2-Butanol	ND	< 200		1010	1600	µg/g	63.1	60 - 120	
Tetrahydrofuran	ND	< 100		330	483	µg/g	68.3	60 - 120	
Cyclohexane	ND	< 200		1140	1610	µg/g	70.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1340	1620	µg/g	82.7	70 - 130	
Benzene	ND	< 1		3.97	5.02	µg/g	79.1	60 - 120	
Isopropyl Acetate	ND	< 200		1140	1620	µg/g	70.4	60 - 120	
Heptane	ND	< 200		1030	1610	µg/g	64.0	60 - 120	
1-Butanol	ND	< 500		1390	1630	µg/g	85.3	70 - 130	
Propyl Acetate	ND	< 500		1350	1610	µg/g	83.9	70 - 130	
1,4-Dioxane	ND	< 100		325	491	µg/g	66.2	60 - 120	
2-Ethoxyethanol	ND	< 30		136	181	µg/g	75.1	60 - 120	
Methylisobutyl ketone	ND	< 500		1340	1620	µg/g	82.7	70 - 130	
3-Methyl-1-butanol	ND	< 500		1330	1630	µg/g	81.6	70 - 130	
Ethylene Glycol	ND	< 200		305	484	µg/g	63.0	60 - 120	
Toluene	ND	< 100		329	485	µg/g	67.8	60 - 120	
Isobutyl Acetate	ND	< 500		1350	1630	µg/g	82.8	70 - 130	
1-Pentanol	ND	< 500		1300	1620	µg/g	80.2	70 - 130	
Butyl Acetate	ND	< 500		1330	1620	µg/g	82.1	70 - 130	
Ethylbenzene	ND	< 200		648	969	µg/g	66.9	60 - 120	
m,p-Xylene	ND	< 200		662	994	µg/g	66.6	60 - 120	
o-Xylene	ND	< 200		648	967	µg/g	66.8	60 - 120	
Cumene	ND	< 30		111	171	µg/g	64.9	60 - 120	
Anisole	ND	< 500		1310	1630	µg/g	80.4	70 - 130	
DMSO	ND	< 500		1430	1680	µg/g	85.1	70 - 130	
1,2-dimethoxyethane	ND	< 50		146	169	µg/g	86.4	70 - 130	
Triethylamine	ND	< 500		1420	1630	µg/g	87.1	70 - 130	
N,N-dimethylformamide	ND	< 150		417	482	µg/g	86.5	70 - 130	
N,N-dimethylacetamide	ND	< 150		411	510	µg/g	80.6	70 - 130	
Pyridine	ND	< 50		165	203	µg/g	81.3	70 - 130	
Sulfolane	ND	< 50		127	172	µg/g	73.8	70 - 130	
1,2-Dichloroethane	ND	< 1		0.872	1	µg/g	87.2	70 - 130	
Chloroform	ND	< 1		0.818	1	µg/g	81.8	70 - 130	
Trichloroethylene	ND	< 1		0.802	1	µg/g	80.2	70 - 130	
1,1-Dichloroethane	ND	< 1		0.736	1	µg/g	73.6	70 - 130	



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QC- Sample Duplicate

Sample ID: 22-014435-0001

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

Units of Measure:

µg/g - Microgram per gram or ppm



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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.