

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU TN.O.FS50

BATCH # EK38

PRODUCT NAME Full Spectrum High Potency CBD Tincture

SERVING SIZE 1 mL

LABORATORY: Columbia Laboratories

OREGON ACCREDITATION: OR100028

LOQ: Limit Of Quantitation

LOD: Limit Of Detection

1 g = 10⁻³ kg = 10³ mg = 10⁶

µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	52.36 mg/serving	56.3 mg/g	5.63 %
Total THC (d9-THC, THCA)	2.08 mg/serving	2.24 mg/g	0.22 %
Cannabigerol (CBG)	1.01 mg/serving	1.09 mg/g	0.11 %
Cannabinol (CBN)	0.05 mg/serving	0.05 mg/g	0.01 %
Cannabichromene (CBC)	1.57 mg/serving	1.69 mg/g	0.17 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	2.08 mg/serving	2.24 mg/g	0.22 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	6 µg/day ^[1]
Mercury	<LOQ µg/serving	<LOQ 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	<LOQ µg/g	50,000 mg/day
Heptane	<LOQ 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: 22-014731/D004.R000
Report Date: 12/19/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/01/22 15:33

Customer: Etz Hayim Holdings
Product identity: FORM.TN.O.FS50-EK38
Client/Metric ID: .
Laboratory ID: 22-014731-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	1.69		mg/1g		CBD-Total per Serving Size 56.3 mg/1g
CBD per 1g	56.3		mg/1g		
CBDV per 1g	1.02		mg/1g		THC-Total per Serving Size 2.24 mg/1g
CBE per 1g	0.959		mg/1g		(Reported in milligrams per serving)
CBG per 1g	1.09		mg/1g		
CBL per 1g	0.169		mg/1g		
CBN per 1g	0.0503		mg/1g		
CBT per 1g	0.830		mg/1g		
Δ9-THC per 1g	2.24		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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Report Date: 12/19/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/01/22 15:33

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

Product identity: FORM.TN.O.FS50-EK38

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-014731-0002

Evidence of Cooling: No

Temp: 18.5

Relinquished by: courier

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2210325	Analyze: 12/3/22 12:41:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.69		mg/1g	0.0322	
CBC-A per 1g	< LOQ		mg/1g	0.0322	
CBC-Total per 1g	1.69		mg/1g	0.0605	
CBD per 1g	56.3		mg/1g	0.322	
CBD-A per 1g	< LOQ		mg/1g	0.0322	
CBD-Total per 1g	56.3		mg/1g	0.351	
CBDV per 1g	1.02		mg/1g	0.0322	
CBDV-A per 1g	< LOQ		mg/1g	0.0322	
CBDV-Total per 1g	1.02		mg/1g	0.0602	
CBE per 1g	0.959		mg/1g	0.0322	
CBG per 1g	1.09		mg/1g	0.0322	
CBG-A per 1g	< LOQ		mg/1g	0.0322	
CBG-Total per 1g	1.09		mg/1g	0.0602	
CBL per 1g	0.169		mg/1g	0.0322	
CBL-A per 1g	< LOQ		mg/1g	0.0322	
CBL-Total per 1g	0.169		mg/1g	0.0605	
CBN per 1g	0.0503		mg/1g	0.0322	
CBT per 1g	0.830		mg/1g	0.0322	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0322	
Δ10-THC per 1g	< LOQ		mg/1g	0.0322	
Δ8-THC per 1g	< LOQ		mg/1g	0.0322	
Δ9-THC per 1g	2.24		mg/1g	0.0322	
exo-THC per 1g	< LOQ		mg/1g	0.0322	
THC-A per 1g	< LOQ		mg/1g	0.0322	
THC-Total per 1g	2.24		mg/1g	0.0605	
THCV per 1g	< LOQ		mg/1g	0.0322	
THCV-A per 1g	< LOQ		mg/1g	0.0322	
THCV-Total per 1g	< LOQ		mg/1g	0.0606	
Total Cannabinoids per 1g	64.3		mg/1g		



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Received: 12/01/22 15:33

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2210486	12/12/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2210486	12/12/22 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210487	12/13/22 AOAC 2014.05 (RAPID) ^P		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210487	12/13/22 AOAC 2014.05 (RAPID) ^P		I

Solvents Method: Residual Solvents by GC/MS^b Units µg/g Batch 2210588 Analyze 12/14/22 09:39 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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 2210651 Analyze 12/15/22 02:45 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	0.0966	2210568	12/13/22 AOAC 2013.06 (mod.) ^b	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0966	2210568	12/13/22 AOAC 2013.06 (mod.) ^b	pass			
Lead	< LOQ	0.500	mg/kg	0.0966	2210568	12/13/22 AOAC 2013.06 (mod.) ^b	pass			
Mercury	< LOQ	0.100	mg/kg	0.0483	2210568	12/13/22 AOAC 2013.06 (mod.) ^b	pass			



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Report Number: 22-014731/D004.R000
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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

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager



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Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ETZHAYIM

22-014731

R100028

Case Order Number:

Project Number:

Project Name:

Etz Hayim Holdings

- Report Instructions:
- Send to State - METRC
- Email Final Results:
- Fax Final Results
- Cash/Check/CC/Net 30

Other:

Field ID	Date/Time Collected		Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID	
FORM-CAP.RLX25-EJ16	11/30	3:58	X	X	X					X	X	X			Powder		mg/g	Potency First	
FORM-TN.O.FS50-EK38	11/30	11:45	X	X	X					X	X	X			Tincture		mg/g	Potency First	
WLPL-MR.BLKBYR-EJ28	11/30	7:58	X	X	X					X	X	X			Edible		mg/g	Parallel Path	
CYCL-GMY.D9.BR10-EK32	11/30	11:19	X	X	X					X	X	X			Edible		mg/g	Parallel Path	
																			LaZNot Discount

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 18c S
							Shipped Via: Couriers
							Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Report Number: 22-014731/D004.R000
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ORELAP#: OR100028
Purchase Order:
Received: 12/01/22 15:33

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

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2210325

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0339	0.034	%	99.2	80.0	- 120	Acceptable	
CBDV	2	0.0362	0.035	%	102	80.0	- 120	Acceptable	
CBE	2	0.0350	0.035	%	98.9	80.0	- 120	Acceptable	
CEDA	1	0.0306	0.032	%	95.8	90.0	- 110	Acceptable	
CBG ^A	1	0.0308	0.032	%	95.7	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	0.0338	0.034	%	99.4	80.0	- 120	Acceptable	
δ8THCV	2	0.0360	0.036	%	99.3	80.0	- 120	Acceptable	
THCV ^A	2	0.0329	0.033	%	99.0	80.0	- 120	Acceptable	
CBN	1	0.0319	0.033	%	96.6	80.0	- 120	Acceptable	
exo-THC	2	0.0325	0.033	%	99.3	80.0	- 120	Acceptable	
δ9THC	1	0.0331	0.034	%	97.4	90.0	- 110	Acceptable	
δ8THC	1	0.0322	0.033	%	96.4	90.0	- 110	Acceptable	
CBL	2	0.0339	0.033	%	102	80.0	- 120	Acceptable	
Δ10THC	1	0.0297	0.031	%	96.6	80.0	- 120	Acceptable	
CBG	2	0.0343	0.035	%	98.2	80.0	- 120	Acceptable	
THCA	1	0.0307	0.032	%	96.1	90.0	- 110	Acceptable	
CBCA	2	0.0340	0.034	%	99.1	80.0	- 120	Acceptable	
CBLA	2	0.0349	0.035	%	99.0	80.0	- 120	Acceptable	
CBT	2	0.0362	0.037	%	98.9	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	
CEDA	<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	
δ8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCV ^A	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
Δ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<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 MRI
 RPĐ - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:
 %- Percent



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

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2210325						
Sample Duplicate		Sample ID: 22-014554-0001						
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	0.0173	0.0173	0.003	%	0.0096	< 20	Acceptable	
CBDAA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDAP	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.443	0.443	0.003	%	0.146	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV/A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0076	0.0076	0.003	%	0.473	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ9THC	<LOQ	<LOQ	0.003	%	NA	< 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	0.0070	0.0070	0.003	%	0.0625	< 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	0.0118	0.0120	0.003	%	1.45	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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

Report Number: 22-014731/D004.R000
 Report Date: 12/19/2022
 ORELAP#: OR100028
 Purchase Order:
 Received: 12/01/22 15:33



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2210588					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		477	572	µg/g	83.4	60	120
Isobutane	ND	< 200		591	731	µg/g	80.8	60	120
Butane	ND	< 200		573	731	µg/g	78.4	60	120
2,2 Dimethylpropane	ND	< 200		764	936	µg/g	81.6	60	120
Methanol	ND	< 200		1290	1620	µg/g	79.6	60	120
Ethylene Oxide	ND	< 30		44.1	56.2	µg/g	78.5	60	120
2 Methylbutane	ND	< 200		1260	1610	µg/g	78.3	60	120
Pentane	ND	< 200		1240	1600	µg/g	77.5	60	120
Ethanol	ND	< 200		1270	1610	µg/g	78.9	70	130
Ethyl Ether	ND	< 200		1270	1630	µg/g	77.9	60	120
2,2 Dimethylbutane	ND	< 30		131	171	µg/g	76.6	60	120
Acetone	ND	< 200		1320	1630	µg/g	81.0	60	120
2 Propanol	ND	< 200		1320	1620	µg/g	81.5	60	120
Ethyl Formate	ND	< 500		1320	1670	µg/g	79.0	70	130
Acetonitrile	ND	< 100		373	498	µg/g	74.9	60	120
Methyl Acetate	ND	< 500		1280	1730	µg/g	74.0	70	130
2,3 Dimethylbutane	ND	< 30		131	171	µg/g	76.6	60	120
Dichloromethane	ND	< 60		381	483	µg/g	78.9	60	120
2 Methylpentane	ND	< 30		135	168	µg/g	80.4	60	120
M BE	ND	< 500		1250	1650	µg/g	75.8	70	130
3 Methylpentane	ND	< 30		118	167	µg/g	70.7	60	120
Hexane	ND	< 30		163	182	µg/g	89.6	60	120
1 Propanol	ND	< 500		1210	1620	µg/g	74.7	70	130
Methylethylketone	ND	< 500		1200	1620	µg/g	74.1	70	130
Ethyl acetate	ND	< 200		1240	1610	µg/g	77.0	60	120
2 Butanol	ND	< 200		1250	1600	µg/g	78.1	60	120
tetrahydrofuran	ND	< 100		361	483	µg/g	74.7	60	120
Cyclohexane	ND	< 200		1220	1610	µg/g	75.8	60	120
2 methyl 1 propanol	ND	< 500		1160	1620	µg/g	71.6	70	130
Benzene	ND	< 1		4.18	5.02	µg/g	83.3	60	120
Isopropyl Acetate	ND	< 200		1280	1620	µg/g	79.0	60	120
Heptane	ND	< 200		1270	1610	µg/g	78.9	60	120
1 Butanol	ND	< 500		1200	1630	µg/g	73.6	70	130
Propyl Acetate	ND	< 500		1190	1610	µg/g	73.9	70	130
1,4 Dioxane	ND	< 100		365	491	µg/g	74.3	60	120
2 Ethoxyethanol	ND	< 30		130	181	µg/g	71.8	60	120
Methylisobutylketone	ND	< 500		1170	1620	µg/g	72.2	70	130
3 Methyl 1 butanol	ND	< 500		1190	1630	µg/g	73.0	70	130
Ethylene Glycol	ND	< 200		322	484	µg/g	66.5	60	120
oluene	ND	< 100		358	485	µg/g	73.8	60	120
Isobutyl Acetate	ND	< 500		1180	1630	µg/g	72.4	70	130
1 Pentanol	ND	< 500		1140	1620	µg/g	70.4	70	130
Butyl Acetate	ND	< 500		1150	1620	µg/g	71.0	70	130
Ethylbenzene	ND	< 200		693	969	µg/g	71.5	60	120
m,p Xylene	ND	< 200		699	994	µg/g	70.3	60	120
o Xylene	ND	< 200		686	967	µg/g	70.9	60	120
Cumene	ND	< 30		116	171	µg/g	67.8	60	120
Anisole	ND	< 500		1100	1630	µg/g	67.5	70	130 Q6
DMSO	ND	< 500		1170	1680	µg/g	69.6	70	130 Q6
1,2 dimethoxyethane	ND	< 50		125	169	µg/g	74.0	70	130
riethylamine	ND	< 500		1210	1630	µg/g	74.2	70	130
N,N dimethylformamide	ND	< 150		351	482	µg/g	72.8	70	130
N,N dimethylacetamide	ND	< 150		356	510	µg/g	69.8	70	130 Q6
Pyridine	ND	< 50		155	203	µg/g	76.4	70	130
Sulfone	ND	< 50		106	172	µg/g	61.6	70	130 Q6
1,2 Dichloroethane	ND	< 1		0.932	1	µg/g	93.2	70	130
Chloroform	ND	< 1		0.896	1	µg/g	89.6	70	130
richloroethylene	ND	< 1		0.891	1	µg/g	89.1	70	130
1,1 Dichloroethane	ND	< 1		0.851	1	µg/g	85.1	70	130



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Revision 2 Document D 7087
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QC - Sample Duplicate Sample ID: 22-014731-0002

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	
M BE	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	
oluene	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	
richloroethylene	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
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2210651			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.034	1.000	103.4	50.0	150
Acephate	0.000	< 0.200		0.767	0.800	95.9	60.0	120
Acetaminocyl	0.000	< 1.000		3.707	4.000	92.7	40.0	160
Acetamiprid	0.000	< 0.100		0.397	0.400	99.3	60.0	120
Aldicarb	0.000	< 0.200		0.786	0.800	98.3	60.0	120
Azoxystrobin	0.000	< 0.100		0.382	0.400	95.5	60.0	120
Bifenazate	0.000	< 0.100		0.425	0.400	106.4	60.0	120
Bifenthrin	0.000	< 0.100		0.384	0.400	96.0	50.0	150
Boscalid	0.000	< 0.200		0.789	0.800	98.6	60.0	120
Carbaryl	0.000	< 0.100		0.385	0.400	96.2	60.0	120
Carbofuran	0.000	< 0.100		0.401	0.400	100.4	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.395	0.400	98.6	60.0	120
Chlorfenapyr	0.000	< 0.500		1.685	2.000	84.3	60.0	120
Chlorpyrifos	0.000	< 0.100		0.588	0.400	147.0	60.0	120
Clofentazine	0.000	< 0.100		0.397	0.400	99.2	60.0	120
Cyfluthrin	0.000	< 0.500		1.995	2.000	99.7	50.0	150
Cypermethrin	0.000	< 0.500		1.919	2.000	96.0	50.0	150
Daminozide	0.000	< 0.500		1.470	2.000	73.5	60.0	120
Diazinon	0.000	< 0.100		0.424	0.400	105.9	60.0	120
Dichlorvos	0.000	< 0.500		1.801	2.000	90.0	60.0	120
Dimethoate	0.000	< 0.100		0.399	0.400	99.7	60.0	120
Ethoprophos	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Etofenprox	0.000	< 0.200		0.780	0.800	97.5	50.0	150
Etoxazole	0.000	< 0.100		0.393	0.400	98.2	60.0	120
Fenoxycarb	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Fenpyroximate	0.000	< 0.200		0.764	0.800	95.5	60.0	120
Fipronil	0.000	< 0.200		0.666	0.800	83.3	60.0	120
Fonicamid	0.000	< 0.250		0.984	1.000	98.4	60.0	120
Fludioxonil	0.000	< 0.200		0.573	0.800	71.6	50.0	150
Hexythiazox	0.000	< 0.250		0.819	1.000	81.9	60.0	120
Imazalil	0.000	< 0.100		0.404	0.400	101.1	60.0	120
Imidacloprid	0.000	< 0.200		0.792	0.800	99.0	60.0	120
Kresoxim methyl	0.000	< 0.200		0.782	0.800	97.7	60.0	120
Malathion	0.000	< 0.100		0.391	0.400	97.6	60.0	120
Metlaxyl	0.000	< 0.100		0.391	0.400	97.6	60.0	120
Methiocarb	0.000	< 0.100		0.390	0.400	97.4	60.0	120
Methomyl	0.000	< 0.200		0.788	0.800	98.5	60.0	120
MGK 264	0.000	< 0.100		0.389	0.400	97.2	50.0	150
Myclobutanil	0.000	< 0.100		0.415	0.400	103.7	60.0	120
Naled	0.000	< 0.250		1.004	1.000	100.4	50.0	150
Oxamyl	0.000	< 0.500		2.061	2.000	103.0	60.0	120
Paclbutrazole	0.000	< 0.200		0.786	0.800	98.2	60.0	120
Parathion Methyl	0.000	< 0.100		0.374	0.400	93.5	50.0	150
Permethrin	0.000	< 0.100		0.358	0.400	89.4	50.0	150
Phosmet	0.000	< 0.100		0.394	0.400	98.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.899	2.000	94.9	60.0	120
Prallethrin	0.000	< 0.100		0.381	0.400	95.3	60.0	120
Propiconazole	0.000	< 0.200		0.795	0.800	99.3	60.0	120
Propoxur	0.000	< 0.100		0.395	0.400	98.6	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.471	0.488	96.5	60.0	120
Pyridaben	0.000	< 0.100		0.388	0.400	96.9	50.0	150
Spirosad	0.000	< 0.100		0.384	0.388	99.1	50.0	150
Spiromesifen	0.000	< 0.100		0.402	0.400	100.4	60.0	120
Spirotetramat	0.000	< 0.100		0.395	0.400	98.9	60.0	120
Spiroxamine	0.000	< 0.200		0.780	0.800	97.6	60.0	120
ebuconazole	0.000	< 0.200		0.795	0.800	99.4	60.0	120
hiacloprid	0.000	< 0.100		0.405	0.400	101.3	60.0	120
hiamethoxam	0.000	< 0.100		0.411	0.400	102.9	60.0	120
rifloxystrobin	0.000	< 0.100		0.386	0.400	96.4	60.0	120

Q1



12423 NE Whitaker Way
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2210651				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 22-015283-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.959	1.121	1.000	15.6%	< 30	95.9%	112.1%	50 150		
Acephate	0.584	1.296	1.417	0.800	15.7%	< 30	88.9%	104.1%	50 150		
Acetamiprid	0.000	0.296	0.296	0.400	0.1%	< 30	74.1%	74.0%	50 150		
Aldicarb	0.000	0.661	0.687	0.800	3.8%	< 30	82.6%	85.8%	50 150		
Azoxystrobin	0.021	0.258	0.260	0.400	0.9%	< 30	59.2%	59.8%	50 150		
Bifenazate	0.073	0.358	0.382	0.400	8.2%	< 30	71.3%	77.4%	50 150		
Bifenthrin	0.000	0.371	0.354	0.400	4.8%	< 30	92.7%	88.4%	50 150		
Boscalid	0.241	0.668	0.716	0.800	10.7%	< 30	53.3%	59.3%	50 150		
Carbaryl	0.024	0.261	0.255	0.400	2.5%	< 30	59.1%	57.7%	50 150		
Carbofuran	0.000	0.237	0.239	0.400	0.9%	< 30	59.4%	59.9%	50 150		
Chlorantraniliprole	0.000	0.279	0.296	0.400	6.0%	< 30	69.8%	74.1%	50 150		
Chlorfenapyr	0.000	1.037	1.038	2.000	0.1%	< 30	51.8%	51.9%	50 150		
Chlorpyrifos	0.000	0.701	0.561	0.400	22.2%	< 30	175.3%	140.3%	50 150	Q	
Clofentezine	0.000	0.201	0.212	0.400	5.1%	< 30	50.3%	52.9%	50 150		
Cyfluthrin	0.412	1.153	1.261	2.000	13.7%	< 30	37.1%	42.5%	30 150		
Cypermethrin	0.000	0.756	0.608	2.000	21.8%	< 30	37.8%	30.4%	50 150	Q	
Daminozide	0.057	0.954	1.004	2.000	5.4%	< 30	44.9%	47.4%	30 150		
Diazinon	0.000	0.106	0.115	0.400	7.9%	< 30	26.5%	28.6%	50 150	Q	
Dichlorvos	0.074	1.246	1.359	2.000	9.2%	< 30	58.6%	64.2%	50 150		
Dimethoate	0.000	0.338	0.348	0.400	2.9%	< 30	84.4%	86.9%	50 150		
Ethoprophos	0.000	0.202	0.205	0.400	1.7%	< 30	50.5%	51.3%	50 150		
Etofenprox	0.000	0.442	0.454	0.800	2.7%	< 30	55.3%	56.8%	50 150		
Etoxazole	0.002	0.349	0.338	0.400	3.2%	< 30	86.8%	84.1%	50 150		
Fenoxycarb	0.000	0.210	0.215	0.400	2.4%	< 30	52.4%	53.7%	50 150		
Fenpyroximate	0.000	0.248	0.235	0.800	5.3%	< 30	31.0%	29.4%	50 150	Q	
Fipronil	0.000	0.193	0.193	0.800	0.0%	< 30	24.1%	24.1%	50 150	Q	
Flonicamid	0.000	0.850	0.910	1.000	6.9%	< 30	85.0%	91.0%	50 150		
Fludioxonil	0.000	0.657	0.617	0.800	6.3%	< 30	82.1%	77.1%	50 150		
Hexythiazox	0.000	0.600	0.563	1.000	6.3%	< 30	60.0%	56.3%	50 150		
Imazalil	0.001	0.291	0.293	0.400	0.7%	< 30	72.6%	73.1%	50 150		
Imidacloprid	0.000	0.680	0.665	0.800	2.2%	< 30	85.0%	83.2%	50 150		
Kresoxim methyl	0.000	0.414	0.435	0.800	5.1%	< 30	51.7%	54.4%	50 150		
Malathion	0.062	0.301	0.311	0.400	4.0%	< 30	59.7%	62.1%	50 150		
Metaxalyl	0.000	0.274	0.285	0.400	3.9%	< 30	68.6%	71.3%	50 150		
Methiocarb	0.000	0.232	0.240	0.400	3.3%	< 30	58.0%	59.9%	50 150		
Methomyl	0.000	0.738	0.742	0.800	0.4%	< 30	92.3%	92.7%	50 150		
MGK 264	0.000	0.085	0.096	0.400	12.0%	< 30	21.3%	24.1%	50 150	Q	
Myclobutanil	0.000	0.158	0.170	0.400	7.3%	< 30	39.6%	42.6%	50 150	Q	
Naled	0.000	0.444	0.449	1.000	1.1%	< 30	44.4%	44.9%	50 150	Q	
Oxamyl	0.000	1.846	1.823	2.000	1.3%	< 30	92.3%	91.1%	50 150		
Pacllobutrazole	0.000	0.420	0.451	0.800	7.1%	< 30	52.6%	56.4%	50 150	R, Q	
Parathion Methyl	0.000	0.106	0.071	0.400	39.4%	< 30	26.6%	17.8%	30 150	R, Q	
Permethrin	0.016	0.304	0.287	0.400	6.2%	< 30	72.0%	67.7%	50 150		
Phosmet	0.000	0.220	0.234	0.400	6.1%	< 30	55.0%	58.5%	50 150		
Piperonyl butoxide	0.000	1.580	1.629	2.000	3.1%	< 30	79.0%	81.5%	50 150		
Prallethrin	0.000	0.128	0.137	0.400	6.9%	< 30	32.0%	34.2%	50 150	Q	
Propiconazole	0.059	0.495	0.532	0.800	8.1%	< 30	54.5%	59.1%	50 150		
Propoxur	0.007	0.258	0.260	0.400	0.7%	< 30	62.7%	63.2%	50 150		
Pyrethrin (Summe)	0.000	0.280	0.263	0.488	6.3%	< 30	57.4%	53.9%	50 150		
Pyridaben	0.000	0.245	0.243	0.400	1.0%	< 30	61.3%	60.7%	50 150		
Spirosad	0.000	0.276	0.274	0.388	0.9%	< 30	71.2%	70.6%	50 150		
Spiromesifen	0.006	0.364	0.355	0.400	2.4%	< 30	89.5%	87.4%	50 150		
Spirotetramat	0.000	0.470	0.481	0.400	2.2%	< 30	117.5%	120.2%	50 150		
Spiroxamine	0.000	0.586	0.633	0.800	7.7%	< 30	73.2%	79.1%	50 150		
ebuconazole	0.000	0.449	0.450	0.800	0.3%	< 30	56.1%	56.2%	50 150		
hiacloprid	0.000	0.291	0.301	0.400	3.5%	< 30	72.8%	75.4%	50 150		
hiamethoxam	0.000	0.433	0.380	0.400	13.2%	< 30	108.3%	94.9%	50 150		
rifloxystrobin	0.013	0.288	0.288	0.400	0.1%	< 30	68.8%	68.7%	50 150		



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2210651			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.929	1.000	92.9	50.0	150
Acephate	0.000	< 0.200		0.763	0.800	95.4	60.0	120
Acetaminocyl	0.000	< 1.000		3.379	4.000	84.5	40.0	160
Acetamiprid	0.000	< 0.100		0.383	0.400	95.9	60.0	120
Aldicarb	0.000	< 0.200		0.778	0.800	97.3	60.0	120
Azoxystrobin	0.000	< 0.100		0.386	0.400	96.5	60.0	120
Bifenazate	0.000	< 0.100		0.424	0.400	106.1	60.0	120
Bifenthrin	0.000	< 0.100		0.380	0.400	94.9	50.0	150
Boscalid	0.000	< 0.200		0.756	0.800	94.5	60.0	120
Carbaryl	0.000	< 0.100		0.382	0.400	95.4	60.0	120
Carbofuran	0.000	< 0.100		0.378	0.400	94.5	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.377	0.400	94.3	60.0	120
Chlorfenapyr	0.000	< 0.500		1.733	2.000	86.7	60.0	120
Chlorpyrifos	0.000	< 0.100		0.401	0.400	100.2	60.0	120
Clofentazine	0.000	< 0.100		0.367	0.400	91.9	60.0	120
Cyfluthrin	0.000	< 0.500		1.855	2.000	92.7	50.0	150
Cypermethrin	0.000	< 0.500		1.953	2.000	97.7	50.0	150
Daminozide	0.398	< 0.500		1.842	2.000	92.1	60.0	120
Diazinon	0.000	< 0.100		0.413	0.400	103.3	60.0	120
Dichlorvos	0.000	< 0.500		1.972	2.000	98.6	60.0	120
Dimethoate	0.000	< 0.100		0.382	0.400	95.4	60.0	120
Ethoprophos	0.000	< 0.100		0.375	0.400	93.7	60.0	120
Etofenprox	0.000	< 0.200		0.734	0.800	91.7	50.0	150
Etoxazole	0.000	< 0.100		0.376	0.400	94.1	60.0	120
Fenoxycarb	0.000	< 0.100		0.368	0.400	92.1	60.0	120
Fenpyroximate	0.000	< 0.200		0.756	0.800	94.6	60.0	120
Fipronil	0.000	< 0.200		0.705	0.800	88.1	60.0	120
Fonicamid	0.000	< 0.250		0.943	1.000	94.3	60.0	120
Fludioxonil	0.000	< 0.200		0.778	0.800	97.3	50.0	150
Hexythiazox	0.000	< 0.250		0.931	1.000	93.1	60.0	120
Imazalil	0.000	< 0.100		0.381	0.400	95.2	60.0	120
Imidacloprid	0.000	< 0.200		0.766	0.800	95.8	60.0	120
Kresoxim methyl	0.000	< 0.200		0.766	0.800	95.8	60.0	120
Malathion	0.000	< 0.100		0.378	0.400	94.5	60.0	120
Metaxalyl	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Methiocarb	0.000	< 0.100		0.387	0.400	96.8	60.0	120
Methomyl	0.000	< 0.200		0.748	0.800	93.5	60.0	120
MGK 264	0.000	< 0.100		0.378	0.400	94.6	50.0	150
Myclobutanil	0.000	< 0.100		0.367	0.400	91.6	60.0	120
Naled	0.000	< 0.250		0.945	1.000	94.5	50.0	150
Oxamyl	0.000	< 0.500		1.919	2.000	96.0	60.0	120
Pacllobutrazole	0.000	< 0.200		0.747	0.800	93.4	60.0	120
Parathion Methyl	0.000	< 0.100		0.445	0.400	111.2	50.0	150
Permethrin	0.000	< 0.100		0.373	0.400	93.3	50.0	150
Phosmet	0.000	< 0.100		0.374	0.400	93.5	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.812	2.000	90.6	60.0	120
Prallethrin	0.000	< 0.100		0.353	0.400	88.2	60.0	120
Propiconazole	0.000	< 0.200		0.665	0.800	83.1	60.0	120
Propoxur	0.000	< 0.100		0.382	0.400	95.4	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.457	0.488	93.7	60.0	120
Pyridaben	0.000	< 0.100		0.372	0.400	93.0	50.0	150
Spirosad	0.000	< 0.100		0.369	0.388	95.0	50.0	150
Spiromesifen	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Spirotetramat	0.000	< 0.100		0.386	0.400	96.6	60.0	120
Spiroxamine	0.000	< 0.200		0.730	0.800	91.2	60.0	120
ebuconazole	0.000	< 0.200		0.625	0.800	78.2	60.0	120
hiacloprid	0.000	< 0.100		0.371	0.400	92.7	60.0	120
hiamethoxam	0.000	< 0.100		0.395	0.400	98.6	60.0	120
rifloxystrobin	0.000	< 0.100		0.382	0.400	95.5	60.0	120



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2210651				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 22-015283-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.985	0.996	1.000	1.1%	< 30	98.5%	99.6%	50 150		
Acephate	0.594	1.311	1.329	0.800	2.5%	< 30	89.7%	91.9%	50 150		
Acetaminocyl	0.000	2.607	2.910	4.000	11.0%	< 30	65.2%	72.8%	50 150		
Acetamidrid	0.000	0.292	0.294	0.400	0.6%	< 30	73.0%	73.4%	50 150		
Aldicarb	0.000	0.709	0.705	0.800	0.6%	< 30	88.6%	88.1%	50 150		
Azoxystrobin	0.018	0.263	0.254	0.400	3.8%	< 30	61.1%	58.8%	50 150		
Bifenazate	0.064	0.363	0.389	0.400	8.4%	< 30	74.8%	81.4%	50 150		
Bifenthrin	0.000	0.367	0.350	0.400	4.7%	< 30	91.7%	87.5%	50 150		
Boscalid	0.194	0.713	0.708	0.800	0.9%	< 30	64.9%	64.3%	50 150		
Carbaryl	0.019	0.260	0.227	0.400	15.0%	< 30	60.2%	51.8%	50 150		
Carbofuran	0.000	0.232	0.228	0.400	1.6%	< 30	57.9%	57.0%	50 150		
Chlorantraniliprole	0.000	0.307	0.289	0.400	5.9%	< 30	76.7%	72.3%	50 150		
Chlorfenapyr	0.000	1.037	1.038	2.000	0.1%	< 30	51.8%	51.9%	50 150		
Chlorpyrifos	0.000	0.440	0.371	0.400	17.1%	< 30	110.1%	92.8%	50 150		
Clofentazine	0.000	0.202	0.203	0.400	0.3%	< 30	50.5%	50.7%	50 150		
Cyfluthrin	0.250	1.437	1.155	2.000	26.9%	< 30	59.3%	45.2%	30 150		
Cypermethrin	0.000	1.027	1.038	2.000	1.0%	< 30	51.4%	51.9%	50 150		
Daminozide	0.246	1.521	1.523	2.000	0.2%	< 30	63.8%	63.9%	30 150		
Diazinon	0.000	0.113	0.116	0.400	2.8%	< 30	28.2%	29.0%	50 150	Q	
Dichlorvos	0.030	1.398	1.456	2.000	4.1%	< 30	68.4%	71.3%	50 150		
Dimethoate	0.000	0.339	0.345	0.400	1.8%	< 30	84.8%	86.4%	50 150		
Ethoprophos	0.000	0.207	0.206	0.400	0.6%	< 30	51.8%	51.5%	50 150		
Etofenprox	0.000	0.445	0.441	0.800	0.9%	< 30	55.7%	55.2%	50 150		
Etoxazole	0.005	0.342	0.347	0.400	1.5%	< 30	84.2%	85.4%	50 150		
Fenoxycarb	0.000	0.210	0.205	0.400	2.4%	< 30	52.6%	51.3%	50 150		
Fenpyroximate	0.000	0.249	0.241	0.800	3.1%	< 30	31.1%	30.1%	50 150	Q	
Fipronil	0.000	0.263	0.299	0.800	12.8%	< 30	32.9%	37.4%	50 150	Q	
Fonicamid	0.000	0.916	0.873	1.000	4.8%	< 30	91.6%	87.3%	50 150		
Fludioxonil	0.000	1.020	0.994	0.800	2.5%	< 30	127.5%	124.3%	50 150		
Hexythiazox	0.000	0.600	0.563	1.000	6.3%	< 30	60.0%	56.3%	50 150		
Imazalil	0.000	0.288	0.285	0.400	0.8%	< 30	71.9%	71.3%	50 150		
Imidacloprid	0.000	0.710	0.702	0.800	1.2%	< 30	88.8%	87.8%	50 150		
Kresoxim methyl	0.000	0.425	0.441	0.800	3.6%	< 30	53.2%	55.1%	50 150		
Malathion	0.050	0.316	0.322	0.400	2.1%	< 30	66.4%	67.8%	50 150		
Metaxalyl	0.000	0.288	0.294	0.400	2.0%	< 30	72.1%	73.6%	50 150		
Methiocarb	0.000	0.245	0.250	0.400	2.2%	< 30	61.2%	62.6%	50 150		
Methomyl	0.000	0.789	0.744	0.800	5.9%	< 30	98.7%	93.0%	50 150		
MGK 264	0.000	0.088	0.083	0.400	5.5%	< 30	22.0%	20.8%	50 150	Q	
Myclobutanil	0.000	0.133	0.145	0.400	8.8%	< 30	33.2%	36.3%	50 150	Q	
Naled	0.000	0.447	0.449	1.000	0.5%	< 30	44.7%	44.9%	50 150	Q	
Oxamyl	0.000	1.955	1.993	2.000	1.9%	< 30	97.7%	99.7%	50 150		
Pacllobutrazole	0.000	0.417	0.422	0.800	1.2%	< 30	52.1%	52.8%	50 150		
Parathion Methyl	0.000	0.040	0.043	0.400	6.8%	< 30	10.0%	10.7%	30 150	Q	
Permethrin	0.059	0.332	0.323	0.400	3.4%	< 30	68.3%	66.0%	50 150		
Phosmet	0.000	0.237	0.238	0.400	0.3%	< 30	59.3%	59.5%	50 150		
Piperonyl butoxide	0.000	1.648	1.676	2.000	1.6%	< 30	82.4%	83.8%	50 150		
Prallethrin	0.000	0.139	0.121	0.400	13.7%	< 30	34.8%	30.4%	50 150	Q	
Propiconazole	0.014	0.459	0.470	0.800	2.4%	< 30	55.6%	56.9%	50 150		
Propoxur	0.003	0.255	0.257	0.400	1.0%	< 30	62.8%	63.4%	50 150		
Pyrethrin (Summe)	0.000	0.280	0.263	0.488	6.3%	< 30	57.4%	53.9%	50 150		
Pyridaben	0.000	0.257	0.248	0.400	3.3%	< 30	64.2%	62.1%	50 150		
Spinosad	0.000	0.280	0.280	0.388	0.1%	< 30	72.1%	72.1%	50 150		
Spiromesifen	0.025	0.386	0.378	0.400	2.4%	< 30	90.4%	88.3%	50 150		
Spirotetramat	0.000	0.459	0.459	0.400	0.1%	< 30	114.7%	114.6%	50 150		
Spiroxamine	0.000	0.609	0.630	0.800	3.3%	< 30	76.1%	78.7%	50 150		
ebuconazole	0.000	0.304	0.362	0.800	17.5%	< 30	38.0%	45.3%	50 150	Q	
hiacloprid	0.000	0.289	0.289	0.400	0.1%	< 30	72.2%	72.1%	50 150		
hiamethoxam	0.000	0.415	0.360	0.400	14.0%	< 30	103.7%	90.1%	50 150		
rifloxystrobin	0.013	0.296	0.296	0.400	0.3%	< 30	70.9%	70.7%	50 150		

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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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.