

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU PET.DIG10		BATCH # EC40		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 Digestive Health CBD Dog Chews		SERVING SIZE 1 treat (~5.6 g)					
LABORATORY: Columbia Laboratories		OREGON ACCREDITATION: OR100028					
POTENCY		PER SERVING		PER GRAM		Percent	
Cannabidiol (CBD)		11.59	mg/serving	2.07	mg/g	0.207	%
Total THC (d9-THC, THCA)		0.413	mg/serving	0.0738	mg/g	0.0074	%
Cannabigerol (CBG)		0.24	mg/serving	0.0428	mg/g	0.0043	%
Cannabinol (CBN)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Cannabichromene (CBC)		0.453	mg/serving	0.0809	mg/g	0.0081	%
Tetrahydrocannabinolic Acid (THCA)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)		0.413	mg/serving	0.0738	mg/g	0.0074	%
Delta-8-THC (d8-THC)		<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
HEAVY METALS		PER SERVING		PER GRAM		REGULATORY ACTION LEVEL	
Arsenic		0.428	µg/serving	0.0765	µg/g	10	µg/day ^[1]
Cadmium		<LOQ	µg/serving	<LOQ	µg/g	4.1	µg/day ^[1]
Lead		0.465	µg/serving	0.0831	µg/g	3.5	µg/day ^[2]
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				50,000 mg/day	
Heptane		<LOQ				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.

2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.



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



Report Number: 22-003259/D003.R000
Report Date: 03/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/21/22 14:32

Customer: Etz Hayim Holdings
Product identity: FORM-EC40-PET-DIG10
Client/Metric ID: .
Laboratory ID: 22-003259-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status		
CBC per 1g†	0.0809		mg/1g		CBD Total per 1g	2.07 mg/1g
CBD per 1g	2.07		mg/1g			
CBG per 1g†	0.0428		mg/1g		THC-Total per 1g	0.0738 mg/1g
CBT per 1g†	0.0376		mg/1g			
Δ9 THC per 1g	0.0738		mg/1g		(Reported in milligrams per serving)	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status	Analyte	Result	Unit	Limit	Status
Lead	0.0831	mg/kg	0.500	pass	Arsenic	0.0765	mg/kg	0.200	pass

Microbiology:

Less than LOQ for all analytes.



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Report Date: 03/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/21/22 14:32

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)
Product identity: FORM-EC40-PET-DIG10
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-003259-0001
Evidence of Cooling: No
Temp: 18.4 °C
Relinquished by: Client
Serving Size #1: 1 g

Sample Results

Potency per 1g Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2202562 Analyze: 3/24/22 11:13:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	0.0809		mg/1g	0.0319	
CBC-A per 1g†	< LOQ		mg/1g	0.0319	
CBC-Total per 1g†	0.0809		mg/1g	0.0598	
CBD per 1g	2.07		mg/1g	0.0319	
CBD-A per 1g	< LOQ		mg/1g	0.0319	
CBD-Total per 1g	2.07		mg/1g	0.0598	
CBDV per 1g†	< LOQ		mg/1g	0.0319	
CBDV-A per 1g†	< LOQ		mg/1g	0.0319	
CBDV-Total per 1g†	< LOQ		mg/1g	0.0595	
CBE per 1g†	< LOQ		mg/1g	0.0319	
CBG per 1g†	0.0428		mg/1g	0.0319	
CBG-A per 1g†	< LOQ		mg/1g	0.0319	
CBG-Total per 1g†	< LOQ		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†	0.0376		mg/1g	0.0319	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0319	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0319	
Δ9-THC per 1g	0.0738		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	0.0738		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	0.0599	
Total Cannabinoids per 1g	2.31		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2202494	03/25/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2202494	03/25/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202495	03/26/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202495	03/26/22	AOAC 2014.05 (RAPID)		X

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch	2202627				Analyze	03/25/22 03:25 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-Dimethy butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200					
2,3-Dimethy 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) Units mg/kg Batch 2202588 Analyze 03/25/22 08:18 AM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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		Paclobutrazole	< LOQ	0.40	0.200	pass
Parathion-Methyl	< LOQ	0.20	0.200	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	0.200	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	Analyze	Method	Status	Notes	
Arsenic	0.0765	0.200	mg/kg	0.0171	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0171	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Lead	0.0831	0.500	mg/kg	0.0171	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00855	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	

Nutrition										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Water Activity	0.518	0.650	Aw	0.030	2202549	03/23/22	AOAC 978.18	pass	X	



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Received: 03/21/22 14:32

These test results are representative of the individual sample selected and submitted by the client.

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.

† = Analyte not NELAP accredited.

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

Aw = Water Activity

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 22-003259/D003.R000
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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected	Analysis Requested											Order of operations: potency assay first, if result falls within acceptable range, then proceed with all other remaining tests. Use freezer sample prep for all labms.			Purchase Order Number: Project Number: Project Name: ☐ Report Instructions: ☐ Send to State - METRC ☒ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30 Other:		
			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-EC40-PET-DIG10		3/21/22 11:55								X	X							Laz Nat Discount	
FORM-EC40-PET-DIG10		3/21/22 11:55	X		X	X	X					X							

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
☐ Standard (5 day) ☒ Rush (3-4 day) (1.5x Standard) ☐ Priority Rush (2 day) (2x Standard)							Client Alias: Order Number: Proper Container ✓ Sample Condition ✓ Temperature: 18.4°C Shipped Via: Evidence of cooling: ☐ Yes ☒ 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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Portland, OR 97230
503-254-1794



Report Number: 22-003259/D003.R000
Report Date: 03/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/21/22 14:32

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2202562								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.0340	0.0333	%	102	80.0 - 120	Acceptable		
CBDV	0.0369	0.0333	%	111	80.0 - 120	Acceptable		
CBE	0.0327	0.0333	%	98.2	80.0 - 120	Acceptable		
CBDA	0.0344	0.0333	%	103	80.0 - 120	Acceptable		
CBGA	0.0342	0.0333	%	103	80.0 - 120	Acceptable		
CBG	0.0343	0.0333	%	103	80.0 - 120	Acceptable		
CBD	0.0337	0.0333	%	101	80.0 - 120	Acceptable		
THCV	0.0335	0.0333	%	100	80.0 - 120	Acceptable		
d8THCV	0.0333	0.0333	%	100.0	80.0 - 120	Acceptable		
THCVA	0.0326	0.0333	%	97.9	80.0 - 120	Acceptable		
CBN	0.0345	0.0333	%	104	80.0 - 120	Acceptable		
exo-THC	0.0302	0.0333	%	90.7	80.0 - 120	Acceptable		
d9THC	0.0332	0.0333	%	99.7	80.0 - 120	Acceptable		
d8THC	0.0320	0.0333	%	96.1	80.0 - 120	Acceptable		
CBL	0.0300	0.0333	%	90.1	80.0 - 120	Acceptable		
CBC	0.0338	0.0333	%	102	80.0 - 120	Acceptable		
THCA	0.0351	0.0333	%	105	80.0 - 120	Acceptable		
CBCA	0.0336	0.0333	%	101	80.0 - 120	Acceptable		
CBLA	0.0319	0.0333	%	95.7	80.0 - 120	Acceptable		
CBT	0.0265	0.0333	%	79.6	80.0 - 120	Acceptable	Q6	

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		
CBL	< 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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Report Number: 22-003259/D003.R000
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Received: 03/21/22 14:32

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2202562						
Sample Duplicate		Sample ID: 22-003040-0001-01						
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	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0102	0.00919	0.003	%	10.9	< 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	0.272	0.245	0.003	%	10.4	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00427	0.00378	0.003	%	12.2	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< 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



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Rev s o 3 Docume D 3 20
Legacy D C L C2 Wo ks ee Va da ed 0/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2202588				
Method blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.049	1.000	104.9	78.7	107
Acephate	0.013	< 0.250		0.988	1.000	98.8	67.4	125
Acequinocyl	0.000	< 1.000		3.862	4.000	96.5	78.5	117
Acetamiprid	0.000	< 0.100		0.396	0.400	98.9	66.9	124
Aldicarb	0.000	< 0.200		0.758	0.800	94.7	70.2	130
Azoxystrobin	0.000	< 0.100		0.361	0.400	90.3	76.4	125
Bifenazate	0.000	< 0.100		0.363	0.400	90.7	69.0	128
Bifenthrin	0.000	< 0.100		0.377	0.400	94.2	72.8	126
Boscalid	0.009	< 0.200		0.771	0.800	96.4	70.5	131
Carbaryl	0.000	< 0.100		0.402	0.400	100.5	72.7	123
Carbofuran	0.000	< 0.100		0.415	0.400	103.8	79.7	118
Chlorantraniliprole	0.000	< 0.100		0.366	0.400	91.5	69.0	128
Chlorfenapyr	0.000	< 0.500		1.676	2.000	83.8	70.3	131
Chlorpyrifos	0.000	< 0.100		0.332	0.400	83.1	72.7	122
Clofentezine	0.000	< 0.100		0.298	0.400	74.5	42.6	79.1
Cyfluthrin	0.000	< 0.500		1.840	2.000	92.0	74.2	130
Cypermethrin	0.000	< 0.500		1.843	2.000	92.2	72.5	130
Daminozide	0.000	< 0.500		0.845	2.000	42.3	24.8	46.1
Diazinon	0.000	< 0.100		0.371	0.400	92.6	73.6	130
Dichlorvos	0.000	< 0.500		1.976	2.000	98.8	80.6	129
Dimethoate	0.000	< 0.100		0.389	0.400	97.3	78.9	118
Ethoprophos	0.000	< 0.100		0.382	0.400	95.6	70.4	130
Etofenprox	0.000	< 0.200		0.841	0.800	105.2	70.5	127
Etoxazole	0.009	< 0.100		0.421	0.400	105.3	70.9	132
Fenoxycarb	0.000	< 0.100		0.334	0.400	83.5	73.9	122
Fenpyroximate	0.000	< 0.200		0.675	0.800	84.4	76.0	125
Fipronil	0.000	< 0.200		0.672	0.800	83.9	71.3	132
Flonicamid	0.000	< 0.250		1.208	1.000	120.8	74.7	130
Fludioxonil	0.000	< 0.200		0.700	0.800	87.5	67.1	125
Hexythiazox	0.000	< 0.250		0.933	1.000	93.3	73.0	124
Imazalil	0.000	< 0.100		0.368	0.400	92.1	67.2	125
Imidacloprid	0.000	< 0.200		0.844	0.800	105.5	77.6	122
Kresoxim methyl	0.000	< 0.200		0.722	0.800	90.3	72.1	125
Malathion	0.000	< 0.100		0.387	0.400	96.7	73.8	125
Metaxalyl	0.000	< 0.100		0.372	0.400	92.9	75.2	122
Methiocarb	0.000	< 0.100		0.357	0.400	89.3	71.6	133
Methomyl	0.000	< 0.200		0.865	0.800	108.1	65.6	120
MGK 264	0.000	< 0.100		0.353	0.400	88.2	70.4	131
Myclobutanil	0.000	< 0.100		0.354	0.400	88.5	68.6	126
Naled	0.000	< 0.250		0.906	1.000	90.6	45.3	84.1
Oxamyl	0.000	< 0.500		1.911	2.000	95.5	66.8	123
Paclobutrazole	0.000	< 0.200		0.721	0.800	90.1	69.7	126
Parathion Methyl	0.000	< 0.200		0.870	0.800	108.8	64.1	116
Permethrin	0.000	< 0.100		0.347	0.400	86.8	75.4	126
Phosmet	0.000	< 0.100		0.376	0.400	94.0	71.7	125
Piperonyl butoxide	0.000	< 0.500		1.861	2.000	93.1	73.8	129
Prallethrin	0.000	< 0.100		0.365	0.400	91.2	67.4	125
Propiconazole	0.000	< 0.200		0.712	0.800	89.0	74.8	124
Propoxur	0.002	< 0.100		0.393	0.400	98.2	77.5	120
Pyrethrin (Summe)	0.000	< 0.100		0.365	0.413	88.4	66.9	124
Pyridaben	0.000	< 0.100		0.365	0.400	91.3	76.2	121
Spinosad	0.000	< 0.100		0.357	0.388	92.1	75.0	133
Spiromesifen	0.000	< 0.100		0.401	0.400	100.3	70.2	130
Spirotetramat	0.000	< 0.100		0.353	0.400	88.3	70.2	126
Spiroxamine	0.000	< 0.200		0.717	0.800	89.6	75.2	121
ebuconazole	0.000	< 0.200		0.684	0.800	85.5	68.4	127
hiacloprid	0.000	< 0.100		0.391	0.400	97.8	71.6	123
hiamethoxam	0.000	< 0.100		0.420	0.400	105.1	67.9	123
rifloxystrobin	0.000	< 0.100		0.340	0.400	84.9	74.7	125

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg			Batch ID: 2202588			
Matrix Spike/Matrix Spike Duplicate Recoveries										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.995	0.934	1.000	6.3%	< 30	99.5%	93.4%	50 150	
Acephate	0.028	1.244	1.196	1.000	4.1%	< 30	121.6%	116.7%	50 150	
Acequinocyl	0.000	4.187	4.359	4.000	4.0%	< 30	104.7%	109.0%	50 150	
Acetamiprid	0.000	0.504	0.490	0.400	2.7%	< 30	125.9%	122.5%	50 150	
Aldicarb	0.000	0.881	0.896	0.800	1.8%	< 30	110.1%	112.0%	50 150	
Azoxystrobin	0.000	0.440	0.421	0.400	4.4%	< 30	109.9%	105.2%	50 150	
Bifenazate	0.000	0.419	0.411	0.400	1.9%	< 30	104.8%	102.8%	50 150	
Bifenthrin	0.000	0.269	0.283	0.400	5.1%	< 30	67.2%	70.7%	50 150	
Boscalid	0.000	0.745	0.735	0.800	1.4%	< 30	93.1%	91.8%	50 150	
Carbaryl	0.000	0.524	0.508	0.400	3.0%	< 30	130.9%	127.1%	50 150	
Carbofuran	0.000	0.532	0.528	0.400	0.7%	< 30	132.9%	132.0%	50 150	
Chlorantraniliprole	0.000	0.384	0.370	0.400	3.6%	< 30	96.0%	92.6%	50 150	
Chlorfenapyr	0.208	2.140	2.148	2.000	0.5%	< 30	96.6%	97.0%	50 150	
Chlorpyrifos	0.000	0.339	0.332	0.400	2.1%	< 30	84.8%	83.0%	50 150	
Clofentezine	0.000	0.334	0.324	0.400	3.1%	< 30	83.6%	81.0%	50 150	
Cyfluthrin	0.000	2.485	2.755	2.000	10.3%	< 30	124.3%	137.7%	30 150	
Cypermethrin	0.034	2.200	2.349	2.000	6.7%	< 30	108.3%	115.7%	50 150	
Daminozide	0.000	1.155	1.157	2.000	0.2%	< 30	57.7%	57.9%	30 150	
Diazinon	0.099	0.514	0.504	0.400	2.6%	< 30	103.8%	101.2%	50 150	
Dichlorvos	0.000	2.321	2.226	2.000	4.2%	< 30	116.1%	111.3%	50 150	
Dimethoate	0.000	0.462	0.466	0.400	0.9%	< 30	115.5%	116.6%	50 150	
Ethoprophos	0.000	0.434	0.436	0.400	0.6%	< 30	108.4%	109.0%	50 150	
Etofenprox	0.000	0.804	0.813	0.800	1.2%	< 30	100.4%	101.6%	50 150	
Etoxazole	0.000	0.553	0.524	0.400	5.3%	< 30	138.2%	131.1%	50 150	
Fenoxycarb	0.000	0.397	0.412	0.400	3.9%	< 30	99.2%	103.1%	50 150	
Fenpyroximate	0.000	0.733	0.726	0.800	1.0%	< 30	91.7%	90.7%	50 150	
Fipronil	0.000	0.903	0.907	0.800	0.4%	< 30	112.9%	113.3%	50 150	
Flonicamid	0.000	1.121	1.088	1.000	2.9%	< 30	112.1%	108.8%	50 150	
Fludioxonil	0.000	0.781	0.734	0.800	6.1%	< 30	97.6%	91.8%	50 150	
Hexythiazox	0.000	0.692	0.646	1.000	6.8%	< 30	69.2%	64.6%	50 150	
Imazalil	0.000	0.481	0.451	0.400	6.4%	< 30	120.3%	112.8%	50 150	
Imidacloprid	0.000	0.625	0.638	0.800	2.0%	< 30	78.1%	79.7%	50 150	
Kresoxim methyl	0.000	0.772	0.762	0.800	1.4%	< 30	96.5%	95.2%	50 150	
Malathion	0.000	0.442	0.431	0.400	2.7%	< 30	110.6%	107.6%	50 150	
Metaxalyl	0.000	0.427	0.426	0.400	0.4%	< 30	106.8%	106.4%	50 150	
Methiocarb	0.000	0.402	0.383	0.400	4.8%	< 30	100.5%	95.8%	50 150	
Methomyl	0.000	0.963	0.940	0.800	2.4%	< 30	120.4%	117.5%	50 150	
MGK 264	0.000	0.359	0.364	0.400	1.3%	< 30	89.7%	90.9%	50 150	
Myclobutanil	0.000	0.386	0.372	0.400	3.6%	< 30	96.5%	93.1%	50 150	
Naled	0.000	1.204	1.204	1.000	0.1%	< 30	120.4%	120.4%	50 150	
Oxamyl	0.000	2.079	2.070	2.000	0.4%	< 30	103.9%	103.5%	50 150	
Paclobutrazole	0.000	0.811	0.832	0.800	2.6%	< 30	101.4%	104.1%	50 150	
Parathion Methyl	0.000	1.107	1.050	0.800	5.3%	< 30	138.4%	131.3%	30 150	
Permethrin	0.000	0.366	0.361	0.400	1.3%	< 30	91.4%	90.2%	50 150	
Phosmet	0.000	0.425	0.408	0.400	3.9%	< 30	106.1%	102.0%	50 150	
Piperonyl butoxide	0.038	2.201	2.011	2.000	9.2%	< 30	108.1%	98.6%	50 150	
Prallethrin	0.000	0.408	0.414	0.400	1.4%	< 30	102.0%	103.4%	50 150	
Propiconazole	0.000	0.790	0.790	0.800	0.1%	< 30	98.8%	98.7%	50 150	
Propoxur	0.000	0.472	0.462	0.400	2.2%	< 30	117.9%	115.4%	50 150	
Pyrethrin (Summe)	0.001	0.409	0.404	0.413	1.2%	< 30	99.0%	97.8%	50 150	
Pyridaben	0.000	0.317	0.358	0.400	12.0%	< 30	79.3%	89.5%	50 150	
Spinosad	0.000	0.424	0.430	0.388	1.4%	< 30	109.4%	110.9%	50 150	
Spiromesifen	0.000	0.843	0.848	0.400	0.5%	< 30	210.8%	211.9%	50 150	Q
Spirotetramat	0.000	0.292	0.286	0.400	2.2%	< 30	73.0%	71.5%	50 150	
Spiroxamine	0.000	0.891	0.825	0.800	7.8%	< 30	111.4%	103.1%	50 150	
ebuconazole	0.000	0.728	0.753	0.800	3.4%	< 30	91.1%	94.2%	50 150	
hiacloprid	0.000	0.479	0.463	0.400	3.3%	< 30	119.7%	115.8%	50 150	
hiamethoxam	0.000	0.409	0.432	0.400	5.6%	< 30	102.2%	108.1%	50 150	
rifloxystrobin	0.000	0.378	0.355	0.400	6.4%	< 30	94.5%	88.7%	50 150	

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Laboratory Quality Control Results									
Residual Solvents				Batch ID: 2202627					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		5.6	5.2	µg/g	00.5	60	20
Isobutane	ND	200		99.35	3	µg/g	09	60	20
Butane	ND	200		80.205	3	µg/g	0.5	60	20
2,2-Dimethylpropane	ND	200		868.5	5	µg/g	92.8	60	20
Methanol	ND	200		5.0	65	µg/g	05.9	60	20
Ethylene Oxide	ND	0		58.6	5	µg/g	03.5	60	20
2-Methylbutane	ND	200		99.3205	620	µg/g		60	20
Pentane	ND	200		80.9	55	µg/g	0.6	60	20
Ethanol	ND	200		922.63	630	µg/g	8.0	0	30
Ethyl Ether	ND	200		06.662	620	µg/g	05.3	60	20
2,2-Dimethylbutane	ND	0		8.905		µg/g	85.3	60	20
Acetone	ND	200		5.3	25	µg/g	95.3	60	20
2-Propanol	ND	200		5.935	6	µg/g	06.6	60	20
Ethyl Formate	ND	500		6.8	0.05	µg/g	0.9	0	30
Acetonitrile	ND	00		555.93	98	µg/g	6	60	20
Methyl Acetate	ND	500		603.35	6	µg/g	99.6	0	30
2,3-Dimethylbutane	ND	0		9.208	6	µg/g	0.8	60	20
Dichloromethane	ND	60		523.6605	5	µg/g	02	60	20
2-Methylpentane	ND	0		6.95	6	µg/g	99.2	60	20
M. BE	ND	500		8.9	600	µg/g	09.3	0	30
3-Methylpentane	ND	0		200.059	5	µg/g	9	60	20
Hexane	ND	0		9.86		µg/g	08	60	20
Propanol	ND	500		598	6	µg/g	99.3	0	30
Methylethylketone	ND	500		5.3	35	µg/g	98.2	0	30
Ethyl acetate	ND	200		95.5965	630	µg/g	0.2	60	20
2-Butanol	ND	200		9585	620	µg/g	05.9	60	20
tetrahydrofuran	ND	00		529.6	500	µg/g	05.9	60	20
Cyclohexane	ND	200		62.2	620	µg/g	00.5	60	20
2-methyl propanol	ND	500		98.6	5	µg/g	0	0	30
Benzene	ND			5.865	5.32	µg/g	03	60	20
Isopropyl Acetate	ND	200		825.9255	620	µg/g	2	60	20
Heptane	ND	200		88.5	6	µg/g	06.6	60	20
Butanol	ND	500		80.0	5	µg/g	2.9	0	30
Propyl Acetate	ND	500		605.6	600	µg/g	00.3	0	30
Dioxane	ND	00		50.5	8	µg/g	00	60	20
2-Ethoxyethanol	ND	0		2.3	39	µg/g	9	60	20
Methylisobutylketone	ND	500		3.2	2	µg/g	08.3	0	30
3-Methyl butanol	ND	500		09	6	µg/g	08.3	0	30
Ethylene Glycol	ND	200		555.0	9	µg/g	2.5	60	20
oluene	ND	200		509.5	9	µg/g	03.8	60	20
Isobutyl Acetate	ND	500		55.662	600	µg/g	9.2	0	30
Pentanol	ND	500		625.595	6	µg/g	0.0	0	30
Butyl Acetate	ND	500		833.53	6	µg/g	3.9	0	30
Ethyl benzene	ND	200		9.302	9.3	µg/g	9	60	20
m,p Xylene	ND	200		852.0	55	µg/g	85.5	60	20
o-Xylene	ND	200		998.5	25	µg/g	02.6	60	20
Cumene	ND	0		68.0	0	µg/g	98.9	60	20
Anisole	ND	500		996.0	95	µg/g	2.0	0	30
DMSO	ND	500		958.5	8	µg/g	20.2	0	30
2-dimethoxyethane	ND	50		66.08	6	µg/g	0.3	0	30
diethylamine	ND	500		69.2395	600	µg/g	05.9	0	30
N,N-dimethylformamide	ND	50		55.02	9	µg/g	2	0	30
N,N-dimethylacetamide	ND	50		580.3	98	µg/g	6.5	0	30
Pyridine	ND	50		90.9	80	µg/g	05	0	30
2-Dichloroethane	ND			595		µg/g	6.0	0	30
Chloroform	ND			095		µg/g	0	0	30
trichloroethylene	ND			0.5		µg/g	0.5	0	30



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QC Sample Duplicate

Sample ID: 22 003201 0001

Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Isobutane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Butane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2,2 Dimethylpropane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Methanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl ene Oxide	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Methyl butane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Pentane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl Ether	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2,2 Dimethylbutane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Acetone	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Propanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl Formate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Aceton trile	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
Methyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
2,3 Dimethylbutane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Dich oromethane	ND	ND	60 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Methyl pentane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
M. SE	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
3 Methyl pentane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Hexane	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Propanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Methylethylketone	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl acetate	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Butanol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
etrahydrofuran	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
Cyclohexane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
2 methyl propanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Benzene	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
Isopropyl Acetate	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Heptane	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Butanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Propyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Glycane	ND	ND	00 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Methylisobutylketone	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
3 Methyl butanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl ene Glycol	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
toluene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Isobutyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Pentanol	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Butyl Acetate	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
Ethyl benzene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
m p Xylene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
o Xy ene	ND	ND	200 $\mu\text{g/g}$	0.0	20	Acceptable	
Cumene	ND	ND	30 $\mu\text{g/g}$	0.0	20	Acceptable	
Anisole	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
DMSO	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
2 dimethoxyethane	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
riethylamine	ND	ND	500 $\mu\text{g/g}$	0.0	20	Acceptable	
N N d methylformam de	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
N N d methylacetamide	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
Pyrid ne	ND	ND	50 $\mu\text{g/g}$	0.0	20	Acceptable	
2 Dichloroethane	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
Chloroform	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	
richloroethylene	ND	ND	$\mu\text{g/g}$	0.0	20	Acceptable	

Abbreviations

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

Units of Measure:

$\mu\text{g/g}$ Microgram per gram or ppm



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Portland, OR 97230
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Report Number: 22-003259/D003.R000
Report Date: 03/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/21/22 14:32

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.