

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.ENY25	BATCH # 222309	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 CBD Energy Gummies	SERVING SIZE 1 Gummies (10g)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	53.30 mg/serving	5.33 mg/g	0.53 %
Total THC (d9-THC, THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabigerol (CBG)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
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	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	453 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.
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: 22-012642/D002.R000
Report Date: 10/25/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/18/22 15:46

Customer: Etz Hayim Holdings
Product identity: FORM-GMY-ENY25-222309
Client/Metric ID: .
Laboratory ID: 22-012642-0003

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	5.33		mg/1g		CBD-Total per Serving Size 5.33 mg/1g
					THC-Total per Serving Size <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	453		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



12423 NE Whitaker Way
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Report Date: 10/25/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/18/22 15:46

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

Product identity: FORM-GMY-ENY25-222309

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-012642-0003

Evidence of Cooling: No

Temp: 22.4 °C

Relinquished by: ups

Serving Size #1: 1 g

Sample Results

Potency per 1g		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se Batch: 2208977		Analyze: 10/19/22 9:34:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1g	< LOQ		mg/1g	0.0325		
CBC-A per 1g	< LOQ		mg/1g	0.0325		
CBC-Total per 1g	< LOQ		mg/1g	0.0610		
CBD per 1g	5.33		mg/1g	0.0325		
CBD-A per 1g	< LOQ		mg/1g	0.0325		
CBD-Total per 1g	5.33		mg/1g	0.0610		
CBDV per 1g	< LOQ		mg/1g	0.0325		
CBDV-A per 1g	< LOQ		mg/1g	0.0325		
CBDV-Total per 1g	< LOQ		mg/1g	0.0607		
CBE per 1g	< LOQ		mg/1g	0.0325		
CBG per 1g	< LOQ		mg/1g	0.0325		
CBG-A per 1g	< LOQ		mg/1g	0.0325		
CBG-Total per 1g	< LOQ		mg/1g	0.0607		
CBL per 1g	< LOQ		mg/1g	0.0325		
CBL-A per 1g	< LOQ		mg/1g	0.0325		
CBL-Total per 1g	< LOQ		mg/1g	0.0610		
CBN per 1g	< LOQ		mg/1g	0.0325		
CBT per 1g	< LOQ		mg/1g	0.0325		
Δ8-THCV per 1g	< LOQ		mg/1g	0.0325		
Δ10-THC per 1g	< LOQ		mg/1g	0.0325		
Δ8-THC per 1g	< LOQ		mg/1g	0.0325		
Δ9-THC per 1g	< LOQ		mg/1g	0.0325		
exo-THC per 1g	< LOQ		mg/1g	0.0325		
THC-A per 1g	< LOQ		mg/1g	0.0325		
THC-Total per 1g	< LOQ		mg/1g	0.0610		
THCV per 1g	< LOQ		mg/1g	0.0325		
THCV-A per 1g	< LOQ		mg/1g	0.0325		
THCV-Total per 1g	< LOQ		mg/1g	0.0611		
Total Cannabinoids per 1g	5.35		mg/1g			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2208902	10/21/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2208902	10/21/22 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208903	10/22/22 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208903	10/22/22 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^b Units µg/g Batch 2209085 Analyze 10/24/22 11:46 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	453		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 2208993 Analyze 10/21/22 08:50 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
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		Pacllobutrazole [‡]	< 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	Analyzed Method	Status	Notes		
Arsenic	< LOQ	0.200	mg/kg	0.0174	2209005	10/20/22 AOAC 2013.06 (mod.) ^b	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0174	2209005	10/20/22 AOAC 2013.06 (mod.) ^b	pass			
Lead	< LOQ	0.500	mg/kg	0.0174	2209005	10/20/22 AOAC 2013.06 (mod.) ^b	pass			
Mercury	< LOQ	0.100	mg/kg	0.00870	2209005	10/20/22 AOAC 2013.06 (mod.) ^b	pass			



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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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

* = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028 *12042*

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
[Redacted]			X	X	X					X	X	X			Edible		mg/g	Parallel Path
CYCL-GMY.D9.WTRS-222807			X	X	X					X	X	X			Edible		mg/g	LazNat discount <i>Parallel Path</i>
CYCL-GMY.D9.BR10-222908			X	X	X					X	X	X			Edible		mg/g	Parallel Path
<i>FORM-GMY.EJY25-222309</i>			X	X	X					X	X	X			Edible		mg/g	Parallel Path

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	[Redacted]						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 <input checked="" type="checkbox"/>
							Sample Condition <input checked="" type="checkbox"/>
							Temperature: <i>22.4</i>
							Shipped Via:
							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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Page 1 of 2



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



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

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2208977

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0333	0.034	%	99.0	80.0	- 120	Acceptable	
CBDV	2	0.0367	0.037	%	100	80.0	- 120	Acceptable	
CBE	2	0.0330	0.034	%	96.7	80.0	- 120	Acceptable	
CBD A	1	0.0340	0.033	%	102	90.0	- 110	Acceptable	
CBG A	1	0.0338	0.034	%	101	80.0	- 120	Acceptable	
CBG	1	0.0349	0.034	%	102	80.0	- 120	Acceptable	
CBD	1	0.0351	0.034	%	103	90.0	- 110	Acceptable	
THCV	2	0.0342	0.035	%	97.2	80.0	- 120	Acceptable	
Δ8THCV	2	0.0345	0.035	%	97.7	80.0	- 120	Acceptable	
THCV A	2	0.0324	0.033	%	98.5	80.0	- 120	Acceptable	
CBN	1	0.0342	0.034	%	102	90.0	- 110	Acceptable	
exo-THC	2	0.0326	0.034	%	94.6	80.0	- 120	Acceptable	
Δ9THC	1	0.0336	0.035	%	97.4	90.0	- 110	Acceptable	
Δ8THC	1	0.0329	0.033	%	98.2	90.0	- 110	Acceptable	
CBL	2	0.0300	0.032	%	93.2	80.0	- 120	Acceptable	
9STHC	3	0.0321	0.033	%	96.4	80.0	- 120	Acceptable	
Δ10THC	1	0.0307	0.032	%	96.3	80.0	- 120	Acceptable	
CBG	2	0.0343	0.036	%	95.8	80.0	- 120	Acceptable	
9RTHC	3	0.0301	0.033	%	90.4	80.0	- 120	Acceptable	
THCA	1	0.0349	0.033	%	105	90.0	- 110	Acceptable	
CBCA	2	0.0341	0.034	%	99.3	80.0	- 120	Acceptable	
CBLA	2	0.0342	0.035	%	98.2	80.0	- 120	Acceptable	
Δ8THCO	3	0.0335	0.033	%	100	80.0	- 120	Acceptable	
CBT	2	0.0317	0.036	%	88.3	80.0	- 120	Acceptable	
Δ9THCO	3	0.0340	0.033	%	102	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 A	<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	
9STHC	<LOQ	0.003	%	< 0.003		Acceptable	
Δ10THC	<LOQ	0.003	%	< 0.003		Acceptable	
CBG	<LOQ	0.003	%	< 0.003		Acceptable	
9RTHC	<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	
Δ8THCO	<LOQ	0.003	%	< 0.003		Acceptable	
CBT	<LOQ	0.003	%	< 0.003		Acceptable	
Δ9THCO	<LOQ	0.003	%	< 0.003		Acceptable	

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

Units of Measure:
 %- Percent



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

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2208977						
Sample Duplicate		Sample ID: 22-012581-0001						
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	0.0037	0.0037	0.003	%	2.32	< 20	Acceptable	
CEDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.116	0.114	0.003	%	1.24	< 20	Acceptable	
CBD	0.319	0.314	0.003	%	1.49	< 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	0.0118	0.0116	0.003	%	2.25	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9STHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.0095	0.0096	0.003	%	1.39	< 20	Acceptable	
9RTHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0082	0.0082	0.003	%	0.763	< 20	Acceptable	
d9THCO	<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:



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



Report Number: 22-012642/D002.R000
Report Date: 10/25/2022
ORELAP#: OR100028
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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2208993			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.702	1.00	70.2	50.0 150	
Acephate	0.023	< 0.250		0.898	1.00	89.3	60.0 120	
Acetamiprid	0.00	< 1.00		2.543	4.00	63.6	40.0 160	
Acetamiprid	0.00	< 1.00		0.346	0.40	86.4	60.0 120	
Aldicarb	0.00	< 0.20		0.701	0.80	87.6	60.0 120	
Azoxystrobin	0.00	< 0.10		0.267	0.40	66.8	60.0 120	
Bifenazate	0.00	< 0.10		0.254	0.40	63.6	60.0 120	
Bifenthrin	0.00	< 0.10		0.265	0.40	66.2	50.0 150	
Boscalid	0.00	< 0.20		0.555	0.80	69.6	60.0 120	
Carbaryl	0.00	< 0.10		0.315	0.40	78.8	60.0 120	
Carbendazim	0.00	< 0.10		0.347	0.40	86.7	60.0 120	
Chlorantraniliprole	0.00	< 0.10		0.270	0.40	67.5	60.0 120	
Chlorfenapyr	0.00	< 0.50		1.437	2.00	71.8	60.0 120	
Chlorpyrifos	0.00	< 0.10		0.268	0.40	66.9	60.0 120	
Clofentezine	0.00	< 0.10		0.222	0.40	55.6	60.0 120	Q6
Cyfluthrin	0.00	< 0.50		1.525	2.00	76.3	50.0 150	
Cypermethrin	0.00	< 0.50		1.448	2.00	72.4	50.0 150	
Daminozide	0.00	< 0.50		0.652	2.00	32.6	60.0 120	Q6
Diazinon	0.00	< 0.10		0.265	0.40	66.2	60.0 120	
Dichlorvos	0.00	< 0.50		1.812	2.00	90.6	60.0 120	
Dimethoate	0.00	< 0.10		0.355	0.40	89.0	60.0 120	
Ethiofencarb	0.00	< 0.10		0.300	0.40	75.0	60.0 120	
Etofenprox	0.00	< 0.20		0.537	0.80	67.2	50.0 150	
Etoxazole	0.00	< 0.10		0.259	0.40	64.7	60.0 120	
Fenoxycarb	0.00	< 0.10		0.270	0.40	67.6	60.0 120	
Fenpyroximate	0.00	< 0.20		0.554	0.80	69.3	60.0 120	
Fipronil	0.00	< 0.20		0.545	0.80	68.1	60.0 120	
Fonicamid	0.00	< 0.25		0.891	1.00	89.1	60.0 120	
Fludioxonil	0.00	< 0.20		0.590	0.80	73.7	50.0 150	
Hexythiazox	0.00	< 0.25		0.645	1.00	64.5	60.0 120	
Imazalil	0.00	< 0.10		0.245	0.40	61.4	60.0 120	
Imidacloprid	0.00	< 0.20		0.663	0.80	82.9	60.0 120	
Kiesoxim-methyl	0.00	< 0.20		0.519	0.80	64.9	60.0 120	
Malathion	0.00	< 0.10		0.275	0.40	69.0	60.0 120	
Metolaxyl	0.00	< 0.10		0.322	0.40	80.5	60.0 120	
Methiocarb	0.00	< 0.10		0.289	0.40	72.3	60.0 120	
Methomyl	0.00	< 0.20		0.745	0.80	93.3	60.0 120	
MCK-264	0.00	< 0.10		0.267	0.40	66.7	50.0 150	
Mydobutanol	0.00	< 0.10		0.282	0.40	70.5	60.0 120	
Naled	0.00	< 0.25		0.551	1.00	55.1	50.0 150	
Oxamyl	0.00	< 0.50		1.743	2.00	87.2	60.0 120	
Padobutrazole	0.00	< 0.20		0.554	0.80	69.3	60.0 120	
Parathion-Methyl	0.00	< 0.20		0.631	0.80	78.8	50.0 150	
Permethrin	0.00	< 0.10		0.269	0.40	67.2	50.0 150	
Phosmet	0.00	< 0.10		0.274	0.40	68.4	50.0 150	
Piperonyl butoxide	0.00	< 0.50		1.288	2.00	64.4	60.0 120	
Prallethrin	0.00	< 0.10		0.262	0.40	65.6	60.0 120	
Propiconazole	0.00	< 0.20		0.513	0.80	64.2	60.0 120	
Propoxur	0.00	< 0.10		0.332	0.40	83.1	60.0 120	
Pyrethrin (Summe)	0.00	< 0.10		0.282	0.413	68.4	60.0 120	
Pyridaben	0.00	< 0.10		0.267	0.40	66.8	50.0 150	
Spinosad	0.00	< 0.10		0.255	0.388	66.0	50.0 150	
Spiromesfen	0.00	< 0.10		0.275	0.40	68.7	60.0 120	
Spirotetramat	0.00	< 0.10		0.264	0.40	66.0	60.0 120	
Spiroxamine	0.00	< 0.20		0.515	0.80	64.3	60.0 120	
Tebuconazole	0.00	< 0.20		0.522	0.80	65.3	60.0 120	
Thiadoprid	0.00	< 0.10		0.323	0.40	80.8	60.0 120	
Thiamethoxam	0.00	< 0.10		0.347	0.40	86.7	60.0 120	
Trifloxystrobin	0.00	< 0.10		0.262	0.40	65.4	60.0 120	



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 503-254-1794



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662										
Units: mg/Kg										Batch ID 2208993
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	M5 Res	M5D Res	Spike	RFD%	Limit	MS% Re	M5D% Re	Limits	Notes
Abamectin	0.00	0.906	0.846	1.00	6.9%	< 30	90.6%	84.6%	50 - 150	
Acaphate	0.00	0.436	0.479	1.00	9.6%	< 30	43.6%	47.9%	50 - 150	Q
Acetaminophyl	0.00	3.266	3.230	4.00	1.1%	< 30	81.7%	80.7%	50 - 150	
Acetamiprid	0.00	0.479	0.469	0.40	2.1%	< 30	119.7%	117.1%	50 - 150	
Aldicarb	0.00	0.924	0.880	0.80	4.8%	< 30	115.4%	110.0%	50 - 150	
Azoxystrobin	0.00	0.405	0.401	0.40	1.1%	< 30	101.3%	100.2%	50 - 150	
Bifenazate	0.00	0.387	0.378	0.40	2.6%	< 30	96.9%	94.4%	50 - 150	
Bifenthrin	0.00	0.363	0.356	0.40	1.8%	< 30	90.8%	89.0%	50 - 150	
Boscalid	0.00	0.698	0.676	0.80	3.3%	< 30	87.3%	84.5%	50 - 150	
Carbaryl	0.00	0.409	0.403	0.40	1.5%	< 30	102.2%	100.6%	50 - 150	
Carbofuran	0.00	0.269	0.261	0.40	3.0%	< 30	67.3%	65.3%	50 - 150	
Chlorantraniliprole	0.00	0.361	0.362	0.40	0.2%	< 30	90.4%	90.6%	50 - 150	
Chlorfenapyr	0.00	1.807	1.859	2.00	2.8%	< 30	90.4%	92.9%	50 - 150	
Chlorpyrifos	0.00	0.375	0.368	0.40	1.9%	< 30	93.8%	92.1%	50 - 150	
Clofentezane	0.00	0.346	0.324	0.40	6.5%	< 30	86.9%	81.1%	50 - 150	
Cyfluthrin	0.00	1.712	1.746	2.00	2.0%	< 30	85.8%	87.3%	30 - 150	
Cypermethrin	0.00	1.669	1.649	2.00	1.2%	< 30	83.4%	82.4%	50 - 150	
Daminozide	0.00	2.620	3.352	2.00	24.5%	< 30	131.0%	167.6%	30 - 150	Q
Diazinon	0.00	0.384	0.386	0.40	0.4%	< 30	96.1%	96.5%	50 - 150	
Dichlorvos	0.00	1.035	1.010	2.00	2.4%	< 30	51.7%	50.9%	50 - 150	
Dimethoate	0.00	0.427	0.423	0.40	0.8%	< 30	106.7%	105.8%	50 - 150	
Ethiofopros	0.00	0.377	0.369	0.40	2.2%	< 30	94.3%	92.2%	50 - 150	
Etofenprox	0.00	0.732	0.728	0.80	0.6%	< 30	90.9%	90.3%	50 - 150	
Etozazole	0.00	0.373	0.355	0.40	5.1%	< 30	93.3%	88.8%	50 - 150	
Fenoxycarb	0.00	0.388	0.381	0.40	2.0%	< 30	97.1%	95.2%	50 - 150	
Fenpyroximate	0.00	0.718	0.682	0.80	5.1%	< 30	89.7%	85.3%	50 - 150	
Fipronil	0.00	0.755	0.744	0.80	1.5%	< 30	94.4%	93.0%	50 - 150	
Fonicamid	0.00	0.882	0.855	1.00	3.1%	< 30	88.2%	85.5%	50 - 150	
Fludioxonil	0.00	0.783	0.769	0.80	1.8%	< 30	97.9%	96.1%	50 - 150	
Hexythiazox	0.00	0.986	0.957	1.00	3.0%	< 30	98.6%	95.7%	50 - 150	
Imazail	0.00	0.418	0.418	0.40	0.0%	< 30	104.4%	104.5%	50 - 150	
Imidacloprid	0.00	0.557	0.556	0.80	0.1%	< 30	69.6%	69.5%	50 - 150	
Kiesoxim-methyl	0.00	0.750	0.769	0.80	2.5%	< 30	93.7%	96.1%	50 - 150	
Malathion	0.00	0.402	0.389	0.40	3.3%	< 30	100.5%	97.2%	50 - 150	
Metolaxyl	0.00	0.392	0.390	0.40	0.5%	< 30	98.0%	97.4%	50 - 150	
Methiocarb	0.00	0.335	0.329	0.40	2.0%	< 30	76.3%	74.8%	50 - 150	
Methomyl	0.00	0.779	0.765	0.80	1.8%	< 30	97.3%	95.6%	50 - 150	
MCK-264	0.00	0.396	0.374	0.40	5.7%	< 30	99.0%	93.4%	50 - 150	
Mydobutani	0.00	0.381	0.378	0.40	0.7%	< 30	95.1%	94.5%	50 - 150	
Naled	0.00	1.041	1.009	1.00	3.1%	< 30	104.1%	100.9%	50 - 150	
Oxaryl	0.00	2.027	1.824	2.00	10.6%	< 30	101.4%	91.2%	50 - 150	
Padobutrazole	0.00	0.709	0.689	0.80	2.8%	< 30	88.6%	86.2%	50 - 150	
Parathion-Methyl	0.00	0.859	0.752	0.80	13.2%	< 30	107.4%	94.0%	30 - 150	
Permethrin	0.00	0.351	0.350	0.40	0.5%	< 30	87.9%	87.1%	50 - 150	
Phosmet	0.00	0.322	0.314	0.40	2.5%	< 30	80.4%	78.4%	50 - 150	
Piperonyl butoxide	0.00	1.849	1.809	2.00	2.2%	< 30	92.4%	90.4%	50 - 150	
Prallethrin	0.00	0.372	0.377	0.40	1.3%	< 30	93.1%	94.3%	50 - 150	
Propiconazole	0.00	0.787	0.773	0.80	1.8%	< 30	98.3%	96.6%	50 - 150	
Propoxur	0.00	0.228	0.232	0.40	1.9%	< 30	56.9%	58.0%	50 - 150	
Pyrethrin (Summe)	0.00	0.377	0.377	0.413	0.0%	< 30	91.3%	91.4%	50 - 150	
Pyridaben	0.00	0.367	0.357	0.40	2.8%	< 30	91.8%	89.3%	50 - 150	
Spinosad	0.00	0.370	0.372	0.388	0.4%	< 30	95.9%	95.9%	50 - 150	
Spiromesfen	0.00	0.387	0.383	0.40	1.0%	< 30	96.8%	95.8%	50 - 150	
Spirotetramat	0.00	0.383	0.370	0.40	3.6%	< 30	95.8%	92.4%	50 - 150	
Spiroxamine	0.00	0.780	0.765	0.80	2.0%	< 30	97.9%	95.6%	50 - 150	
Tebuconazole	0.00	0.728	0.725	0.80	0.4%	< 30	91.0%	90.7%	50 - 150	
Thiadoprid	0.00	0.486	0.486	0.40	0.1%	< 30	116.4%	116.5%	50 - 150	
Thiamethoxam	0.00	0.343	0.327	0.40	4.7%	< 30	85.8%	81.9%	50 - 150	
Trifloxystrobin	0.00	0.369	0.366	0.40	0.8%	< 30	92.3%	91.6%	50 - 150	



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Revision 2 Document D 7087
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2209085					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		568	572	µg/g	99.3	60	120
Isobutane	ND	< 200		762	731	µg/g	104.2	60	120
Butane	ND	< 200		739	731	µg/g	101.1	60	120
2,2 Dimethylpropane	ND	< 200		1070	936	µg/g	114.3	60	120
Methanol	ND	< 200		1840	1650	µg/g	111.5	60	120
Ethylene Oxide	ND	< 30		55.2	56.2	µg/g	98.2	60	120
2 Methylbutane	ND	< 200		1710	1650	µg/g	103.6	60	120
Pentane	ND	< 200		1740	1650	µg/g	105.5	60	120
Ethanol	ND	< 200		1830	1660	µg/g	110.2	70	130
Ethyl Ether	ND	< 200		1770	1630	µg/g	108.6	60	120
2,2 Dimethylbutane	ND	< 30		200	189	µg/g	105.8	60	120
Acetone	ND	< 200		1840	1650	µg/g	111.5	60	120
2 Propanol	ND	< 200		1850	1650	µg/g	112.1	60	120
Ethyl Formate	ND	< 500		1400	1610	µg/g	87.0	70	130
Acetonitrile	ND	< 100		576	504	µg/g	114.3	60	120
Methyl Acetate	ND	< 500		1870	1630	µg/g	114.7	70	130
2,3 Dimethylbutane	ND	< 30		187	174	µg/g	107.5	60	120
2 Methylpentane	ND	< 30		196	187	µg/g	104.8	60	120
M BE	ND	< 500		1720	1600	µg/g	107.5	70	130
3 Methylpentane	ND	< 30		200	188	µg/g	106.4	60	120
Hexane	ND	< 30		202	182	µg/g	111.0	60	120
1 Propanol	ND	< 500		1810	1610	µg/g	112.4	70	130
Methylethylketone	ND	< 500		1820	1600	µg/g	113.8	70	130
Ethyl acetate	ND	< 200		1860	1630	µg/g	114.1	60	120
2 Butanol	ND	< 200		1910	1630	µg/g	117.2	60	120
tetrahydrofuran	ND	< 100		549	506	µg/g	108.5	60	120
Cyclohexane	ND	< 200		1760	1640	µg/g	107.3	60	120
2 methyl 1 propanol	ND	< 500		1620	1620	µg/g	100.0	70	130
Benzene	ND	< 1		5.26	4.93	µg/g	106.7	60	120
Isopropyl Acetate	ND	< 200		1850	1640	µg/g	112.8	60	120
Heptane	ND	< 200		1640	1630	µg/g	100.6	60	120
1 Butanol	ND	< 500		1650	1600	µg/g	103.1	70	130
Propyl Acetate	ND	< 500		1820	1620	µg/g	112.3	70	130
1,4 Dioxane	ND	< 100		545	493	µg/g	110.5	60	120
2 Ethoxyethanol	ND	< 30		207	171	µg/g	121.1	60	Q1
Methylisobutylketone	ND	< 500		1570	1620	µg/g	96.9	70	130
3 Methyl 1 butanol	ND	< 500		1630	1610	µg/g	101.2	70	130
Ethylene Glycol	ND	< 200		568	494	µg/g	115.0	60	120
oluene	ND	< 100		555	506	µg/g	109.7	60	120
Isobutyl Acetate	ND	< 500		1710	1620	µg/g	105.6	70	130
1 Pentanol	ND	< 500		1560	1610	µg/g	96.9	70	130
Butyl Acetate	ND	< 500		1620	1610	µg/g	100.6	70	130
Ethylbenzene	ND	< 200		1130	996	µg/g	113.5	60	120
m,p Xylene	ND	< 200		1150	1010	µg/g	113.9	60	120
o Xylene	ND	< 200		1070	979	µg/g	109.3	60	120
Cumene	ND	< 30		195	188	µg/g	103.7	60	120
Anisole	ND	< 500		1460	1610	µg/g	90.7	70	130
DMSO	ND	< 500		1470	1600	µg/g	91.9	70	130
1,2 dimethoxyethane	ND	< 50		207	190	µg/g	108.9	70	130
riethylamine	ND	< 500		1600	1610	µg/g	99.4	70	130
N,N dimethylformamide	ND	< 150		432	496	µg/g	87.1	70	130
N,N dimethylacetamide	ND	< 150		475	483	µg/g	98.3	70	130
Pyridine	ND	< 50		156	167	µg/g	93.4	70	130
Sulfolane	ND	< 50		127	161	µg/g	78.9	70	130
1,2 Dichloroethane	ND	< 1		1.13	1	µg/g	113.0	70	130
Chloroform	ND	< 1		1.12	1	µg/g	112.0	70	130
richloroethylene	ND	< 1		1.08	1	µg/g	108.0	70	130
Dichloromethane	ND	< 1		1.09	1	µg/g	109.0	70	130
1,1 Dichloroethane	ND	< 1		1.13	1	µg/g	113.0	70	130



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Revision 2 Document D 7087
Legacy D CFL-E33Effective

QC - Sample Duplicate		Sample ID: 22-012635-0006						
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	
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	
riethylamine	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	
Dichloromethane	2.73	2.98	1	µg/g	8.8	< 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
- Q1 Quality control result biased high. On y non detect samples reported.

Units of Measure:

µg/g Microgram per gram or ppm



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Report Number: 22-012642/D002.R000
Report Date: 10/25/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/18/22 15:46





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.