

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.ENY25	BATCH # 221803	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 2 gummies (~10g)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	50.60 mg/serving	5.06 mg/g	0.506 %
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	200	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: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.ENY25-221803
Client/Metric ID: .
Laboratory ID: 22-003410-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	5.06		mg/1g		CBD Total per 1g 5.06 mg/1g
					THC-Total per 1g <LOQ
(Reported in milligrams per serving)					

Residual Solvents:

Analyte	Result	Limits	Status
	(µg/g)	(µg/g)	
Ethanol ¹	200		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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

Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21



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

Product identity: FORM-GMY.ENY25-221803

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-003410-0001

Evidence of Cooling: No

Temp: 24.3 °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: 2202695 Analyze: 3/29/22 9:51:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g [†]	< LOQ		mg/1g	0.0318	
CBC-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBC-Total per 1g [†]	< LOQ		mg/1g	0.0596	
CBD per 1g	5.06		mg/1g	0.0318	
CBD-A per 1g	< LOQ		mg/1g	0.0318	
CBD-Total per 1g	5.06		mg/1g	0.0596	
CBDV per 1g [†]	< LOQ		mg/1g	0.0318	
CBDV-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBDV-Total per 1g [†]	< LOQ		mg/1g	0.0593	
CBE per 1g [†]	< LOQ		mg/1g	0.0318	
CBG per 1g [†]	< LOQ		mg/1g	0.0318	
CBG-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBG-Total per 1g [†]	< LOQ		mg/1g	0.0593	
CBL per 1g [†]	< LOQ		mg/1g	0.0318	
CBL-A per 1g [†]	< LOQ		mg/1g	0.0318	
CBL-Total per 1g [†]	< LOQ		mg/1g	0.0596	
CBN per 1g	< LOQ		mg/1g	0.0318	
CBT per 1g [†]	< LOQ		mg/1g	0.0318	
Δ8-THCV per 1g [†]	< LOQ		mg/1g	0.0318	
Δ8-THC per 1g [†]	< LOQ		mg/1g	0.0318	
Δ9-THC per 1g	< LOQ		mg/1g	0.0318	
exo-THC per 1g [†]	< LOQ		mg/1g	0.0318	
THC-A per 1g	< LOQ		mg/1g	0.0318	
THC-Total per 1g	< LOQ		mg/1g	0.0596	
THCV per 1g [†]	< LOQ		mg/1g	0.0318	
THCV-A per 1g [†]	< LOQ		mg/1g	0.0318	
THCV-Total per 1g [†]	< LOQ		mg/1g	0.0596	
Total Cannabinoids per 1g	5.06		mg/1g		



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2202596	03/27/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2202596	03/27/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202597	03/28/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202597	03/28/22	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2202735 Analyze 03/30/22 10:54 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 ^l	200		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							



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

Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21



Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2202733 Analyze 03/30/22 10:19 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		Fonicamid	< 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	< LOQ	0.200	mg/kg	0.0178	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0178	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0178	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.00889	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X	



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

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

% 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: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

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-GMY-ENY25- 221803		3/24 4:00p	X	X	X					X	X	X			Edible			Parallel Path LazNet Discount
FORM-GMY-ENY25- 221803																		

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:

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)							Client Alias: Order Number: Proper Container <input checked="" type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Temperature: 24.3 Shipped Via: Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							

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 www.pixislabs.com Page 1 of 2

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



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

Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21



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

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Batch ID: 2202695							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0342	0.033	%	102	80.0 - 120	Acceptable	
CBDV	0.0364	0.033	%	109	80.0 - 120	Acceptable	
CBE	0.0337	0.033	%	101	80.0 - 120	Acceptable	
CBD A	0.0339	0.033	%	102	80.0 - 120	Acceptable	
CBGA	0.0332	0.033	%	99.6	80.0 - 120	Acceptable	
CBG	0.0336	0.033	%	101	80.0 - 120	Acceptable	
CBD	0.0337	0.033	%	101	80.0 - 120	Acceptable	
THCV	0.0341	0.033	%	102	80.0 - 120	Acceptable	
d8THCV	0.0356	0.033	%	107	80.0 - 120	Acceptable	
THCVA	0.0326	0.033	%	97.9	80.0 - 120	Acceptable	
CBN	0.0346	0.033	%	104	80.0 - 120	Acceptable	
exo-THC	0.0325	0.033	%	97.4	80.0 - 120	Acceptable	
d9THC	0.0337	0.033	%	101	80.0 - 120	Acceptable	
d8THC	0.0342	0.033	%	103	80.0 - 120	Acceptable	
CBL	0.0316	0.033	%	94.7	80.0 - 120	Acceptable	
CBG	0.0355	0.033	%	107	80.0 - 120	Acceptable	
THCA	0.0328	0.033	%	98.5	80.0 - 120	Acceptable	
CBCA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBLA	0.0329	0.033	%	98.8	80.0 - 120	Acceptable	
CBT	0.0319	0.033	%	95.8	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	
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	
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 MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

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

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202695								
Sample Duplicate								
Sample ID: 22-003410-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.518	0.506	0.003	%	2.27	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

%- Percent



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



Report Number: 22-003410/D002.R000
 Report Date: 03/30/2022
 ORELAP#: OR100028
 Purchase Order:
 Received: 03/24/22 16:21

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

AQAC2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID 2202733		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		1.565	1.000	156.5	70.3	131
Acephate	0.000	< 0.250		0.966	1.000	96.6	63.9	119
Acequinocyl	0.000	< 1.000		3.728	4.000	93.2	74.4	136
Acetamiprid	0.000	< 0.100		0.408	0.400	102.1	76.1	141
Aldicarb	0.000	< 0.200		0.798	0.800	99.7	74.6	139
Azoxystrobin	0.000	< 0.100		0.404	0.400	101.1	74.0	137
Bifenazate	0.000	< 0.100		0.392	0.400	98.1	74.2	138
Bifenthrin	0.000	< 0.100		0.392	0.400	98.0	71.0	132
Boscalid	0.000	< 0.200		0.834	0.800	104.2	73.3	136
Carbaryl	0.000	< 0.100		0.399	0.400	99.6	75.1	136
Carbofuran	0.000	< 0.100		0.405	0.400	101.3	73.8	137
Chlorantraniliprole	0.000	< 0.100		0.395	0.400	98.8	88.5	164
Chlorfenapyr	0.000	< 0.500		1.830	2.000	91.5	76.2	141
Chlorpyrifos	0.000	< 0.100		0.335	0.400	83.9	72.9	135
Clofentazine	0.000	< 0.100		0.116	0.400	29.0	45.6	84.7
Cyfluthrin	0.000	< 0.500		1.919	2.000	95.9	73.6	137
Cypermethrin	0.000	< 0.500		1.900	2.000	95.0	74.0	138
Daminozide	0.000	< 0.500		0.695	2.000	34.7	26.0	48.2
Diazinon	0.000	< 0.100		0.390	0.400	97.4	76.4	142
Dichlorvos	0.000	< 0.500		2.197	2.000	109.8	80.2	149
Dimethoate	0.000	< 0.100		0.403	0.400	100.8	75.1	138
Ethoprophos	0.000	< 0.100		0.406	0.400	101.5	74.8	139
Etofenprox	0.000	< 0.200		0.750	0.800	93.8	73.5	137
Etoxazole	0.000	< 0.100		0.374	0.400	93.6	78.1	145
Fenoxycarb	0.000	< 0.100		0.386	0.400	96.6	72.7	135
Fenpyroximate	0.000	< 0.200		0.774	0.800	96.8	74.0	137
Fipronil	0.000	< 0.200		0.807	0.800	100.8	76.0	141
Flonicamid	0.000	< 0.250		0.883	1.000	88.3	80.1	139
Fludioxonil	0.000	< 0.200		0.717	0.800	89.6	74.8	139
Hexythiazox	0.000	< 0.250		0.978	1.000	97.8	73.0	135
Imazalil	0.000	< 0.100		0.387	0.400	96.7	70.3	131
Imidacloprid	0.000	< 0.200		0.745	0.800	93.1	77.2	133
Kresoxim methyl	0.000	< 0.200		0.782	0.800	97.7	73.4	136
Malathion	0.000	< 0.100		0.389	0.400	97.2	73.7	137
Metaxyl	0.000	< 0.100		0.396	0.400	99.1	76.3	133
Methiocarb	0.000	< 0.100		0.390	0.400	97.5	75.3	140
Methomyl	0.000	< 0.200		0.763	0.800	95.4	70.7	131
MGK 264	0.000	< 0.100		0.381	0.400	95.2	75.6	140
Myclobutanil	0.000	< 0.100		0.390	0.400	97.4	72.8	135
Naled	0.000	< 0.250		0.375	1.000	37.5	43.4	80.6
Oxamyl	0.000	< 0.500		1.862	2.000	93.1	72.5	135
Paclobutrazole	0.000	< 0.200		0.788	0.800	98.6	72.3	134
Parathion Methyl	0.000	< 0.200		0.819	0.800	102.4	69.0	128
Permethrin	0.000	< 0.100		0.387	0.400	96.9	73.0	135
Phosmet	0.000	< 0.100		0.401	0.400	100.2	72.3	134
Piperonyl butoxide	0.000	< 0.500		2.133	2.000	106.6	77.6	138
Prallethrin	0.000	< 0.100		0.407	0.400	101.7	71.1	132
Propiconazole	0.000	< 0.200		0.785	0.800	98.1	73.6	137
Propoxur	0.000	< 0.100		0.394	0.400	98.4	74.1	138
Pyrethrin (Summe)	0.000	< 0.100		0.403	0.413	97.6	59.0	110
Pyridaben	0.000	< 0.100		0.389	0.400	97.2	73.4	136
Spinosad	0.000	< 0.100		0.372	0.388	95.9	76.6	142
Spiromesifen	0.000	< 0.100		0.394	0.400	98.4	73.8	137
Spirotetramat	0.000	< 0.100		0.372	0.400	93.1	72.7	135
Spiroxamine	0.000	< 0.200		0.796	0.800	99.6	73.0	135
ebuconazole	0.000	< 0.200		0.766	0.800	95.8	72.2	134
hiacloprid	0.000	< 0.100		0.393	0.400	98.2	72.7	135
hiamethoxam	0.000	< 0.100		0.385	0.400	96.3	72.0	134
rifloxystrobin	0.000	< 0.100		0.373	0.400	93.2	74.6	139



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



Report Number: 22-003410/D002.R000
 Report Date: 03/30/2022
 ORELAP#: OR100028
 Purchase Order:
 Received: 03/24/22 16:21

Rev so 3 Docume D 3 20
 Legacy D C L C 2 Wo ks ee Va da ed 0/30/2020

Laboratory Pesticide Quality Control Results

AQAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2202733			
Matrix Spk/Matrix Spk Duplicate Recoveries		Sample ID: 22-0034100001								
Analyte	Result	MSR _{es}	MSD _{Re} s	Spike	RPD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.000	1.369	1.324	1.000	3.4%	< 30	136.9%	132.4%	50 150	
Acephate	0.003	1.168	1.125	1.000	3.8%	< 30	116.5%	112.2%	50 150	
Acequinocyl	0.000	5.252	5.758	4.000	9.2%	< 30	131.3%	143.9%	50 150	
Acetamiprid	0.000	0.508	0.504	0.400	0.8%	< 30	127.0%	126.0%	50 150	
Aldicarb	0.000	0.952	0.956	0.800	0.4%	< 30	119.0%	119.5%	50 150	
Azoxystrobin	0.004	0.454	0.481	0.400	5.8%	< 30	112.3%	119.1%	50 150	
Bifenazate	0.000	0.403	0.406	0.400	0.7%	< 30	100.7%	101.4%	50 150	
Bifenthrin	0.000	0.467	0.531	0.400	12.9%	< 30	116.7%	132.8%	50 150	
Boscalid	0.000	0.737	0.768	0.800	4.1%	< 30	92.1%	96.0%	50 150	
Carbaryl	0.000	0.521	0.523	0.400	0.4%	< 30	130.2%	130.8%	50 150	
Carbofuran	0.000	0.531	0.536	0.400	0.8%	< 30	132.9%	133.9%	50 150	
Chlorantraniliprole	0.000	0.388	0.360	0.400	7.3%	< 30	96.9%	90.1%	50 150	
Chlorfenapyr	0.000	2.016	2.258	2.000	11.3%	< 30	100.8%	112.9%	50 150	
Chlorpyrifos	0.000	0.308	0.299	0.400	3.1%	< 30	77.1%	74.7%	50 150	
Clofentazine	0.000	0.189	0.203	0.400	7.5%	< 30	47.2%	50.8%	50 150	Q
Cyfluthrin	0.000	2.624	2.575	2.000	1.9%	< 30	131.2%	128.8%	30 150	
Cypermethrin	0.064	2.430	2.268	2.000	7.1%	< 30	118.3%	110.2%	50 150	
Daminozide	0.020	1.120	1.112	2.000	0.8%	< 30	55.0%	54.6%	30 150	
Diazinon	0.000	0.408	0.422	0.400	3.3%	< 30	102.1%	105.5%	50 150	
Dichlorvos	0.000	2.357	2.347	2.000	0.4%	< 30	117.9%	117.3%	50 150	
Dimethoate	0.000	0.485	0.485	0.400	0.1%	< 30	121.3%	121.2%	50 150	
Ethoprophos	0.000	0.426	0.445	0.400	4.3%	< 30	106.5%	111.2%	50 150	
Etofenprox	0.000	0.967	1.006	0.800	3.9%	< 30	120.9%	125.8%	50 150	
Etoxazole	0.000	0.453	0.463	0.400	2.1%	< 30	113.2%	115.7%	50 150	
Fenoxycarb	0.000	0.409	0.411	0.400	0.5%	< 30	102.3%	102.8%	50 150	
Fenpyroximate	0.000	0.747	0.754	0.800	0.8%	< 30	93.4%	94.2%	50 150	
Fipronil	0.000	1.052	1.042	0.800	0.9%	< 30	131.5%	130.2%	50 150	
Flonicamid	0.000	0.711	0.581	1.000	20.1%	< 30	71.1%	58.1%	50 150	
Fludioxonil	0.000	0.741	0.688	0.800	7.5%	< 30	92.6%	86.0%	50 150	
Hexythiazox	0.000	1.427	1.393	1.000	2.4%	< 30	142.7%	139.3%	50 150	
Imazalil	0.000	0.487	0.486	0.400	0.1%	< 30	121.7%	121.5%	50 150	
Imidacloprid	0.000	0.631	0.565	0.800	11.1%	< 30	78.9%	70.6%	50 150	
Kresoxim methyl	0.000	0.822	0.806	0.800	2.0%	< 30	102.8%	100.7%	50 150	
Malathion	0.000	0.430	0.445	0.400	3.6%	< 30	107.4%	111.4%	50 150	
Metaxyl	0.000	0.441	0.450	0.400	2.1%	< 30	110.2%	112.5%	50 150	
Methiocarb	0.000	0.440	0.424	0.400	3.7%	< 30	109.9%	106.0%	50 150	
Methomyl	0.000	0.836	0.699	0.800	17.9%	< 30	104.6%	87.4%	50 150	
MGK 264	0.000	0.402	0.390	0.400	3.1%	< 30	100.6%	97.6%	50 150	
Myclobutanil	0.000	0.377	0.385	0.400	2.1%	< 30	94.2%	96.2%	50 150	
Naled	0.000	1.229	1.267	1.000	3.0%	< 30	122.9%	126.7%	50 150	
Oxamyl	0.000	2.244	1.923	2.000	15.4%	< 30	112.2%	96.1%	50 150	
Paclobutrazole	0.000	0.844	0.841	0.800	0.4%	< 30	105.5%	105.1%	50 150	
Parathion Methyl	0.000	0.960	1.081	0.800	11.9%	< 30	120.0%	135.1%	30 150	
Permethrin	0.000	0.404	0.384	0.400	5.1%	< 30	101.1%	96.1%	50 150	
Phosmet	0.000	0.416	0.420	0.400	1.0%	< 30	103.9%	105.0%	50 150	
Piperonyl butoxide	0.000	2.645	2.350	2.000	11.8%	< 30	132.2%	117.5%	50 150	
Prallethrin	0.000	0.582	0.540	0.400	7.5%	< 30	145.5%	134.9%	50 150	
Propiconazole	0.000	0.780	0.804	0.800	3.1%	< 30	97.5%	100.5%	50 150	
Propoxur	0.000	0.475	0.486	0.400	2.3%	< 30	118.8%	121.6%	50 150	
Pyrethrin (Summe)	0.000	0.392	0.388	0.413	1.2%	< 30	95.0%	93.8%	50 150	
Pyridaben	0.000	0.556	0.529	0.400	5.0%	< 30	139.1%	132.2%	50 150	
Spinosad	0.000	0.446	0.450	0.388	0.8%	< 30	114.9%	115.9%	50 150	
Spiromesifen	0.000	0.913	0.913	0.400	0.0%	< 30	228.2%	228.2%	50 150	Q
Spirotetramat	0.000	0.279	0.280	0.400	0.4%	< 30	69.6%	69.9%	50 150	
Spiroxamine	0.000	0.896	0.923	0.800	3.0%	< 30	112.0%	115.4%	50 150	
ebuconazole	0.000	0.723	0.736	0.800	1.8%	< 30	90.4%	92.1%	50 150	
hiacloprid	0.000	0.471	0.470	0.400	0.2%	< 30	117.9%	117.6%	50 150	
hiamethoxam	0.000	0.315	0.270	0.400	15.4%	< 30	78.8%	67.5%	50 150	
rifloxystrobin	0.000	0.403	0.400	0.400	0.8%	< 30	100.7%	100.0%	50 150	



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

Revision Document ID
Legacy ID Effective

Laboratory Quality Control Results

Batch ID: 2202735

Residual Solvents		Method Blank		Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		56	5.2	µg/g	98.6	60	20
Isobutane	ND	200		62	3	µg/g	85	60	20
Butane	ND	200		6	3	µg/g	83.6	60	20
2,2-Dimethylpropane	ND	200		99	936	µg/g	06.5	60	20
Methanol	ND	200		5.0	620	µg/g	93.2	60	20
Ethylene Oxide	ND	30		5	56.2	µg/g	90	60	20
2-Methylbutane	ND	200		590	620	µg/g	98	60	20
Pentane	ND	200		580	6.0	µg/g	98	60	20
Ethanol	ND	200		680	630	µg/g	03	0	0
Ethyl Ether	ND	200		5.0	620	µg/g	93.2	60	20
2,2-Dimethylbutane	ND	30		35		µg/g	9.9	60	20
Acetone	ND	200		20	650	µg/g	86	60	20
2-Propanol	ND	200		90	6.0	µg/g	92.5	60	20
Acetonitrile	ND	00		6	98	µg/g	93.8	60	20
2,3-Dimethylbutane	ND	30		3	6	µg/g	8.3	60	20
Dichloromethane	ND	60			5.0	µg/g	92	60	20
2-Methylpentane	ND	30		5	6	µg/g	8.5	60	20
3-Methylpentane	ND	30		80	5	µg/g	02.9	60	20
Hexane	ND	30		3		µg/g	9	60	20
Ethyl acetate	ND	200		620	630	µg/g	99	60	20
2-Butanol	ND	200		5.0	620	µg/g	95	60	20
Tetrahydrofuran	ND	00		86	500	µg/g	9.2	60	20
Cyclohexane	ND	200		520	620	µg/g	93.8	60	20
Benzene	ND			5	5.32	µg/g	95.9	60	20
Isopropyl Acetate	ND	200		660	620	µg/g	02.5	60	20
Heptane	ND	200		6.0	0	µg/g	9	60	20
Dioxane	ND	00		0	50	µg/g	93.3	60	20
2-Ethoxyethanol	ND	30		93	8	µg/g	06.6	60	20
Ethylene Glycol	ND	200		55	9	µg/g	2	60	20
o-xylene	ND	200		9	9	µg/g	00.6	60	20
Ethyl benzene	ND	200		9.6	9.3	µg/g	00.3	60	20
m,p-Xylene	ND	200		928	996	µg/g	93.2	60	20
o-Xylene	ND	200		020	9.3	µg/g	0.8	60	20
Cumene	ND	30		8	0	µg/g	06.5	60	20



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

Revision Document ID
 Legacy ID Effective

QC Sample Duplicate Sample ID: 22 002948 0004

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	
Acetonitrile	ND	ND	00	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	
3 Methylpentane	ND	ND	30	µg/g	0.0	20	Acceptable	
Hexane	ND	ND	30	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	200	µg/g	0.0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	20	Acceptable	
Benzene	ND	ND	30	µg/g	0.0	20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	20	Acceptable	
Heptane	335	3.8	200	µg/g	3.8	20	Acceptable	
Dioxane	ND	ND	00	µg/g	0.0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0.0	20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	20	Acceptable	
o uene	ND	ND	200	µg/g	0.0	20	Acceptable	
Ethyl benzene	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	

Abbreviations

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

Units of Measure:

µg/g Microgram per gram or ppm



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



Report Number: 22-003410/D002.R000
Report Date: 03/30/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/24/22 16:21

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.