

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GMY.IMM25

BATCH # 220302

PRODUCT NAME CBD Elderberry Gummies **SERVING SIZE** 2 Gummies (~10g)

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)	61.9 mg/serving	6.19 mg/g	0.619 %
Total THC (d9-THC, THCA)	2.6 mg/serving	0.26 mg/g	0.026 %
Cannabigerol (CBG)	1.65 mg/serving	0.165 mg/g	0.0165 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	2.2 mg/serving	0.22 mg/g	0.022 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	2.6 mg/serving	0.26 mg/g	0.026 %
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	<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

TERPENES	% OF SAMPLE
Farnesene	<LOQ %
β-Caryophyllene	<LOQ %
α-Bisabolol	<LOQ %
Guaiol	<LOQ %
Humulene	<LOQ %
Caryophyllene Oxide	<LOQ %



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: 22-004175/D002.R000
Report Date: 04/20/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/13/22 14:01

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.IMM25 Batch # 220302
Client/Metric ID: .
Laboratory ID: 22-004175-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g†	0.220		mg/1g		CBD-Total per 1g 6.19 mg/1g
CBD per 1g	6.19		mg/1g		
CBE per 1g†	0.0708		mg/1g		THC-Total per 1g 0.260 mg/1g
CBG per 1g†	0.165		mg/1g		
CBT per 1g†	0.330		mg/1g		(Reported in milligrams per serving)
Δ9-THC per 1g	0.260		mg/1g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Purchase Order:
Received: 04/13/22 14:01

Customer: Etz Hayim Holdings
 16427 NE Airport Way
 PORTLAND 97230
 United States of America (USA)
Product identity: FORM-GMY.IMM25 Batch # 220302
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-004175-0001
Evidence of Cooling: No
Temp: 18.8 °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: 2203226	Analyze: 4/15/22 9:26:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	0.220		mg/1g	0.0325	
CBC-A per 1g†	< LOQ		mg/1g	0.0325	
CBC-Total per 1g†	0.220		mg/1g	0.0610	
CBD per 1g	6.19		mg/1g	0.0325	
CBD-A per 1g	< LOQ		mg/1g	0.0325	
CBD-Total per 1g	6.19		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†	0.0708		mg/1g	0.0325	
CBG per 1g†	0.165		mg/1g	0.0325	
CBG-A per 1g†	< LOQ		mg/1g	0.0325	
CBG-Total per 1g†	0.165		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†	0.330		mg/1g	0.0325	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0325	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0325	
Δ9-THC per 1g	0.260		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	0.260		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	7.24		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2203173	04/16/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2203173	04/16/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2203174	04/17/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2203174	04/17/22	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2203380 Analyze 04/20/22 11:40 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-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	< 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 2203248 Analyze 04/15/22 01:46 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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		Paclotubrazole	< 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							



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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2203315	Analyze 04/18/22 07:19 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
valencene [†]	< LOQ	0.019	0.00%		a-phellandrene [†]	< LOQ	0.019	0.00%	
Terpinolene [†]	< LOQ	0.019	0.00%		Eucalyptol [†]	< LOQ	0.019	0.00%	
d-3-Carene [†]	< LOQ	0.019	0.00%		Linalool [†]	< LOQ	0.019	0.00%	
Sabinene hydrate [†]	< LOQ	0.019	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%	
(±)-fenchone [†]	< LOQ	0.019	0.00%		nerol [†]	< LOQ	0.019	0.00%	
p-Cymene [†]	< LOQ	0.019	0.00%		Geranyl acetate [†]	< LOQ	0.019	0.00%	
Camphene [†]	< LOQ	0.019	0.00%		a-Bisabolol [†]	< LOQ	0.019	0.00%	
a-Terpinene [†]	< LOQ	0.019	0.00%		Menthol [†]	< LOQ	0.019	0.00%	
(+)-Cedrol [†]	< LOQ	0.019	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%		Humulene [†]	< LOQ	0.019	0.00%	
(R)-(+)-Limonene [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
β-Caryophyllene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
Geraniol [†]	< LOQ	0.019	0.00%		a-pinene [†]	< LOQ	0.019	0.00%	
(-)-β-Pinene [†]	< LOQ	0.019	0.00%		(-)-a-Terpineol [†]	< LOQ	0.019	0.00%	
(-)-Guaiol [†]	< LOQ	0.019	0.00%		a-cedrene [†]	< LOQ	0.019	0.00%	
(-)-Isopulegol [†]	< LOQ	0.019	0.00%		(+)-Borneol [†]	< LOQ	0.019	0.00%	
(+)-fenchol [†]	< LOQ	0.019	0.00%		(±)-Camphor [†]	< LOQ	0.019	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		farnesene [†]	< LOQ	0.019	0.00%	
gamma-Terpinene [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
β-Myrcene [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.013	0.00%	
Total Terpenes	< LOQ								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0182	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0182	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0182	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00912	2203266	04/16/22	AOAC 2013.06 (mod.)	pass	X



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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.

† = 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



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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	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-Imm25		4/13 9am			X										Edible	mg/g		Laz. Nat. Discont
Form-GMY-Imm25		4/13 9am	X			X			X	X	X	X						Parallel Path
Batch # 220302!																		

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input type="checkbox"/> Standard (5 day) <input checked="" type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Client Alias: Order Number: Proper Container: Sample Condition: Temperature: 18.8°C Shipped Via: Client 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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Portland, OR 97230
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Report Number: 22-004175/D002.R000
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Revision 1 Documen D 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2203226**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	0.0342	0.033	%	103	80.0	- 120	Acceptable		
CBDV	0.0366	0.033	%	110	80.0	- 120	Acceptable		
CBE	0.0334	0.033	%	100	80.0	- 120	Acceptable		
CBDA	0.0352	0.033	%	105	90.0	- 110	Acceptable		
CBGA	0.0329	0.033	%	98.8	80.0	- 120	Acceptable		
CBG	0.0328	0.033	%	98.4	80.0	- 120	Acceptable		
CBD	0.0329	0.033	%	98.8	90.0	- 110	Acceptable		
THCV	0.0354	0.033	%	106	80.0	- 120	Acceptable		
d8THCV	0.0352	0.033	%	106	80.0	- 120	Acceptable		
THCVA	0.0328	0.033	%	98.5	80.0	- 120	Acceptable		
CBN	0.0341	0.033	%	102	90.0	- 110	Acceptable		
exo-THC	0.0328	0.033	%	98.4	80.0	- 120	Acceptable		
d9THC	0.0340	0.033	%	102	90.0	- 110	Acceptable		
d8THC	0.0328	0.033	%	98.5	90.0	- 110	Acceptable		
CBL	0.0324	0.033	%	97.3	80.0	- 120	Acceptable		
CBC	0.0351	0.033	%	105	80.0	- 120	Acceptable		
THCA	0.0342	0.033	%	103	90.0	- 110	Acceptable		
CBCA	0.0328	0.033	%	98.3	80.0	- 120	Acceptable		
CBLA	0.0345	0.033	%	103	80.0	- 120	Acceptable		
CBT	0.0325	0.033	%	97.4	80.0	- 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes	
CBDVA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBDV	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBE	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBDA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBGA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBG	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBD	< LOQ	0.0006	%	< 0.0006		Acceptable		
THCV	< LOQ	0.0006	%	< 0.0006		Acceptable		
d8THCV	< LOQ	0.0006	%	< 0.0006		Acceptable		
THCVA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBN	< LOQ	0.0006	%	< 0.0006		Acceptable		
exo-THC	< LOQ	0.0006	%	< 0.0006		Acceptable		
d9THC	< LOQ	0.0006	%	< 0.0006		Acceptable		
d8THC	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBL	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBC	< LOQ	0.0006	%	< 0.0006		Acceptable		
THCA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBCA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBLA	< LOQ	0.0006	%	< 0.0006		Acceptable		
CBT	< LOQ	0.0006	%	< 0.0006		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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Legacy D Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2203226						
Sample Duplicate		Sample D 22-004140-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00387	0.00384	0.003	%	0.995	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.667	0.662	0.003	%	0.750	< 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	0.00366	0.00365	0.003	%	0.353	< 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	0.00692	0.00684	0.003	%	1.07	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
BCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.00510	0.00502	0.003	%	1.65	< 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: 22-004175/D002.R000
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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2203248			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.768	1.00	76.8	50.0	150
Acephate	0.00	< 0.250		0.939	1.00	93.9	60.0	120
Acetamiprid	0.00	< 1.000		4.153	4.00	103.8	40.0	160
Acetamiprid	0.00	< 0.100		0.373	0.40	93.2	60.0	120
Aldicarb	0.00	< 0.200		0.746	0.80	93.1	60.0	120
Azoxystrobin	0.00	< 0.100		0.358	0.40	89.5	60.0	120
Bifenazate	0.00	< 0.100		0.333	0.40	83.2	60.0	120
Bifenthrin	0.00	< 0.100		0.443	0.40	110.9	50.0	150
Boscalid	0.00	< 0.200		0.646	0.80	80.8	60.0	120
Carbaryl	0.00	< 0.100		0.343	0.40	85.9	60.0	120
Carbendazim	0.00	< 0.100		0.355	0.40	88.9	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.314	0.40	78.6	60.0	120
Chlorfenapyr	0.00	< 0.500		1.879	2.00	94.0	60.0	120
Chlorpyrifos	0.00	< 0.100		0.354	0.40	88.4	60.0	120
Clofentezine	0.00	< 0.100		0.281	0.40	70.1	60.0	120
Cyfluthrin	0.00	< 0.500		1.718	2.00	85.9	50.0	150
Cypermethrin	0.00	< 0.500		1.793	2.00	89.7	50.0	150
Daminozide	0.00	< 0.500		0.871	2.00	43.6	60.0	120
Diazinon	0.00	< 0.100		0.346	0.40	86.3	60.0	120
Dichlorvos	0.00	< 0.500		1.908	2.00	95.2	60.0	120
Dimethoate	0.00	< 0.100		0.381	0.40	95.4	60.0	120
Ethionphos	0.00	< 0.100		0.346	0.40	86.4	60.0	120
Etofenprox	0.00	< 0.200		0.867	0.80	108.3	50.0	150
Etoxazole	0.00	< 0.100		0.359	0.40	89.7	60.0	120
Fenoxycarb	0.00	< 0.100		0.332	0.40	83.1	60.0	120
Fenpyroximate	0.00	< 0.200		0.791	0.80	98.9	60.0	120
Fipronil	0.00	< 0.200		0.843	0.80	105.4	60.0	120
Fonicamid	0.00	< 0.250		0.878	1.00	87.8	60.0	120
Fludioxonil	0.00	< 0.200		0.623	0.80	77.9	50.0	150
Hexythiazox	0.00	< 0.250		0.900	1.00	90.0	60.0	120
Imazalil	0.00	< 0.100		0.311	0.40	77.7	60.0	120
Imidacloprid	0.00	< 0.200		0.727	0.80	90.8	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.674	0.80	84.3	60.0	120
Malathion	0.00	< 0.100		0.350	0.40	87.4	60.0	120
Metolaxyl	0.00	< 0.100		0.342	0.40	85.6	60.0	120
Methiocarb	0.00	< 0.100		0.324	0.40	81.0	60.0	120
Methomyl	0.00	< 0.200		0.711	0.80	88.9	60.0	120
MCK-264	0.00	< 0.100		0.324	0.40	80.9	50.0	150
Mydobutanol	0.00	< 0.100		0.320	0.40	80.0	60.0	120
Naled	0.00	< 0.250		0.691	1.00	69.1	50.0	150
Oxaryl	0.00	< 0.500		1.626	2.00	81.3	60.0	120
Padobutrazole	0.00	< 0.200		0.693	0.80	86.6	60.0	120
Parathion-Methyl	0.00	< 0.200		0.546	0.80	68.2	50.0	150
Permethrin	0.00	< 0.100		0.359	0.40	89.7	50.0	150
Phosmet	0.00	< 0.100		0.329	0.40	82.3	50.0	150
Piperonyl butoxide	0.00	< 0.500		1.610	2.00	80.5	60.0	120
Prallethrin	0.00	< 0.100		0.265	0.40	66.1	60.0	120
Propiconazole	0.00	< 0.200		0.773	0.80	96.6	60.0	120
Propoxur	0.00	< 0.100		0.359	0.40	89.7	60.0	120
Pyrethrin (Summe)	0.00	< 0.100		0.313	0.413	75.8	60.0	120
Pyridaben	0.00	< 0.100		0.375	0.40	93.8	50.0	150
Spirosad	0.00	< 0.100		0.362	0.388	93.2	50.0	150
Spiromesfen	0.00	< 0.100		0.341	0.40	85.3	60.0	120
Spirotetramat	0.00	< 0.100		0.336	0.40	83.9	60.0	120
Spiroxamine	0.00	< 0.200		0.662	0.80	82.8	60.0	120
Tebuconazole	0.00	< 0.200		0.654	0.80	81.7	60.0	120
Thiadoprid	0.00	< 0.100		0.346	0.40	86.6	60.0	120
Thiamethoxam	0.00	< 0.100		0.341	0.40	85.3	60.0	120
Trifloxystrobin	0.00	< 0.100		0.376	0.40	94.0	60.0	120

Q6

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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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg				Batch ID 2203248				
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	M5 Res	M5D Res	Spike	RFD%	Limit	MS% Re	M5D% Re	Limits	Notes
Abamectin	0.00	0.894	0.942	1.00	5.3%	< 30	89.4%	94.2%	50 - 150	
Acephate	0.029	0.902	0.958	1.00	6.2%	< 30	87.3%	92.9%	50 - 150	
Acetamiprid	0.00	0.361	0.378	0.40	4.4%	< 30	90.4%	94.4%	50 - 150	
Aldicarb	0.00	0.737	0.761	0.80	3.1%	< 30	92.2%	95.1%	50 - 150	
Azoxystrobin	0.007	0.382	0.385	0.40	1.0%	< 30	93.8%	94.5%	50 - 150	
Bifenazate	0.00	0.388	0.409	0.40	5.3%	< 30	97.0%	102.3%	50 - 150	
Bifenthrin	0.00	0.249	0.257	0.40	3.2%	< 30	62.4%	64.4%	50 - 150	
Boscalid	0.00	0.766	0.809	0.80	5.4%	< 30	95.8%	101.1%	50 - 150	
Carbaryl	0.00	0.365	0.377	0.40	3.5%	< 30	91.1%	94.4%	50 - 150	
Carbendazim	0.00	0.331	0.346	0.40	4.4%	< 30	82.7%	86.4%	50 - 150	
Chlorantraniliprole	0.00	0.382	0.393	0.40	3.1%	< 30	95.4%	98.4%	50 - 150	
Chlorfenapyr	0.00	1.371	1.344	2.00	2.0%	< 30	68.8%	67.2%	50 - 150	
Chlorpyrifos	0.065	0.312	0.315	0.40	1.5%	< 30	61.8%	62.8%	50 - 150	
Clofentezine	0.00	0.341	0.354	0.40	3.7%	< 30	85.2%	88.4%	50 - 150	
Cyfluthrin	0.008	1.729	1.807	2.00	4.4%	< 30	86.0%	89.9%	30 - 150	
Cypermethrin	0.00	1.499	1.529	2.00	2.0%	< 30	74.9%	76.5%	50 - 150	
Daminozide	0.029	0.843	0.860	2.00	2.1%	< 30	40.7%	41.8%	30 - 150	
Diazinon	0.00	0.383	0.403	0.40	5.1%	< 30	95.7%	100.8%	50 - 150	
Dichlorvos	0.00	1.789	1.964	2.00	9.3%	< 30	89.4%	98.2%	50 - 150	
Dimethoate	0.00	0.373	0.399	0.40	6.7%	< 30	93.3%	99.8%	50 - 150	
Ethionphos	0.00	0.368	0.384	0.40	4.2%	< 30	92.0%	95.9%	50 - 150	
Etofenprox	0.00	0.637	0.631	0.80	1.0%	< 30	79.7%	78.8%	50 - 150	
Etoxazole	0.00	0.445	0.473	0.40	6.1%	< 30	111.3%	118.3%	50 - 150	
Fenoxycarb	0.00	0.379	0.392	0.40	3.4%	< 30	94.7%	97.9%	50 - 150	
Fenpyroximate	0.00	0.618	0.629	0.80	1.7%	< 30	77.2%	78.8%	50 - 150	
Fipronil	0.00	0.662	0.685	0.80	3.5%	< 30	82.7%	85.7%	50 - 150	
Fonicamid	0.00	0.971	1.008	1.00	3.8%	< 30	97.1%	100.8%	50 - 150	
Fludioxonil	0.00	0.718	0.752	0.80	4.7%	< 30	89.7%	94.0%	50 - 150	
Hexythiazox	0.00	0.840	0.854	1.00	1.7%	< 30	84.0%	85.4%	50 - 150	
Imazalil	0.027	0.481	0.453	0.40	6.2%	< 30	113.6%	106.7%	50 - 150	
Imidacloprid	0.00	0.833	0.864	0.80	3.7%	< 30	104.1%	108.0%	50 - 150	
Kiesoxim-methyl	0.00	0.708	0.735	0.80	3.9%	< 30	88.5%	91.9%	50 - 150	
Malathion	0.00	0.355	0.371	0.40	4.3%	< 30	88.9%	92.8%	50 - 150	
Metaxyl	0.00	0.375	0.383	0.40	2.1%	< 30	93.8%	95.8%	50 - 150	
Methiocarb	0.00	0.364	0.373	0.40	2.4%	< 30	91.0%	93.2%	50 - 150	
Methomyl	0.00	0.709	0.660	0.80	7.2%	< 30	88.7%	82.5%	50 - 150	
MCK-264	0.00	0.403	0.403	0.40	0.0%	< 30	100.7%	100.6%	50 - 150	
Myclobutanil	0.00	0.367	0.365	0.40	0.3%	< 30	91.8%	91.5%	50 - 150	
Naled	0.00	0.885	0.850	1.00	4.1%	< 30	88.5%	85.0%	50 - 150	
Oxaryl	0.00	1.707	1.702	2.00	0.3%	< 30	85.4%	85.1%	50 - 150	
Padobutrazole	0.00	0.770	0.755	0.80	1.9%	< 30	96.3%	94.5%	50 - 150	
Parathion-Methyl	0.00	0.540	0.529	0.80	2.0%	< 30	67.5%	66.1%	30 - 150	
Permethrin	0.00	0.289	0.297	0.40	2.7%	< 30	72.2%	74.2%	50 - 150	
Phosmet	0.00	0.369	0.374	0.40	1.4%	< 30	92.3%	93.5%	50 - 150	
Piperonyl butoxide	0.027	1.773	1.855	2.00	4.6%	< 30	87.3%	91.4%	50 - 150	
Prallethrin	0.00	0.388	0.407	0.40	5.0%	< 30	96.9%	101.8%	50 - 150	
Propiconazole	0.209	0.937	0.940	0.80	0.3%	< 30	91.1%	91.4%	50 - 150	
Propoxur	0.00	0.351	0.357	0.40	1.7%	< 30	87.7%	89.2%	50 - 150	
Pyrethrin (Summe)	0.004	0.360	0.362	0.413	0.6%	< 30	86.3%	86.8%	50 - 150	
Pyridaben	0.00	0.360	0.367	0.40	2.0%	< 30	90.0%	91.8%	50 - 150	
Spirosad	0.00	0.334	0.340	0.388	1.7%	< 30	86.1%	87.7%	50 - 150	
Spiromesfen	0.00	0.379	0.425	0.40	11.8%	< 30	94.8%	106.5%	50 - 150	
Spirotetramat	0.00	0.382	0.385	0.40	1.0%	< 30	95.5%	96.4%	50 - 150	
Spiroxamine	0.00	0.744	0.773	0.80	3.9%	< 30	93.0%	96.7%	50 - 150	
Tebuconazole	0.00	0.652	0.675	0.80	3.5%	< 30	81.5%	84.4%	50 - 150	
Thiadoprid	0.00	0.357	0.365	0.40	2.4%	< 30	89.3%	91.5%	50 - 150	
Thiamethoxam	0.00	0.301	0.381	0.40	23.9%	< 30	75.2%	95.3%	50 - 150	
Trifloxystrobin	0.00	0.299	0.311	0.40	4.0%	< 30	74.8%	77.8%	50 - 150	



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Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2203315					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		539	500	µg/g	108%	70 - 130	
Camphene	<LOQ	< 200		557	500	µg/g	111%	70 - 130	
Sabinene	<LOQ	< 200		558	500	µg/g	112%	70 - 130	
b-Pinene	<LOQ	< 200		538	500	µg/g	108%	70 - 130	
b-Myrcene	<LOQ	< 200		571	500	µg/g	114%	70 - 130	
a-phellandrene	<LOQ	< 200		570	500	µg/g	114%	70 - 130	
d-3-Carene	<LOQ	< 200		581	500	µg/g	116%	70 - 130	
a-Terpinene	<LOQ	< 200		549	500	µg/g	110%	70 - 130	
p-Cymene	<LOQ	< 200		606	500	µg/g	121%	70 - 130	
D-Limonene	<LOQ	< 200		541	500	µg/g	108%	70 - 130	
Eucalyptol	<LOQ	< 200		555	500	µg/g	111%	70 - 130	
b-cis-Cimene	<LOQ	< 67		198	167	µg/g	119%	70 - 130	
b-trans-Cimene	<LOQ	< 133		393	333	µg/g	118%	70 - 130	
g-Terpinene	<LOQ	< 200		562	500	µg/g	112%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		552	500	µg/g	110%	70 - 130	
Terpinolene	<LOQ	< 200		541	500	µg/g	108%	70 - 130	
D-Fenchone	<LOQ	< 200		524	500	µg/g	105%	70 - 130	
Linalool	<LOQ	< 200		590	500	µg/g	118%	70 - 130	
Fenchol	<LOQ	< 200		550	500	µg/g	110%	70 - 130	
Camphor	<LOQ	< 200		577	500	µg/g	115%	70 - 130	
Isopulego	<LOQ	< 200		586	500	µg/g	117%	70 - 130	
Isoborneol	<LOQ	< 200		562	500	µg/g	112%	70 - 130	
Borneol	<LOQ	< 200		559	500	µg/g	112%	70 - 130	
DL-Menthol	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
Terpineol	<LOQ	< 200		545	500	µg/g	109%	70 - 130	
Nerd	<LOQ	< 200		588	500	µg/g	118%	70 - 130	
Pulegone	<LOQ	< 200		553	500	µg/g	111%	70 - 130	
Geraniol	<LOQ	< 200		702	500	µg/g	140%	70 - 130	Q1
Geranyl Acetate	<LOQ	< 200		597	500	µg/g	119%	70 - 130	
a-Cedrene	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
b-Caryophyllene	<LOQ	< 200		581	500	µg/g	116%	70 - 130	
a-Humulene	<LOQ	< 200		586	500	µg/g	117%	70 - 130	
Valene	<LOQ	< 200		588	500	µg/g	118%	70 - 130	
cis-Nerolidol	<LOQ	< 200		605	500	µg/g	121%	70 - 130	
a-Farnesene	<LOQ	< 200		563	500	µg/g	113%	70 - 130	
trans-Nerolidol	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		586	500	µg/g	117%	70 - 130	
Guaiol	<LOQ	< 200		571	500	µg/g	114%	70 - 130	
Cedrol	<LOQ	< 200		590	500	µg/g	118%	70 - 130	
a-Bisabolol	<LOQ	< 200		600	500	µg/g	120%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2203315					
Sample/ Sample Duplicate		Sample ID: 22-004175-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	200	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-cis-Cimene	<LOQ	<LOQ	66.7	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	133	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	200	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	200	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
DL-Menthhol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	200	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Valnene	<LOQ	<LOQ	200	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	200	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Caryophyllene Oxide	<LOQ	<LOQ	200	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	200	µg/g	0%	< 20	

Definitions

RPD	Relative Percent Difference
Q1	Quality control result biased high. Only non-detect samples reported.



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



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Report Date: 04/20/2022
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Laboratory Quality Control Results									
Residual Solvents									
Method Blank									
Laboratory Control Sample									
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	200		98	5.2	µg/g	8	60	20
Isobutane	ND	200		23	3	µg/g	98.9	60	20
Butane	ND	200		0	3	µg/g	0	2	60
2,2-Dimethylpropane	ND	200		889	936	µg/g	95.0	60	20
Methanol	ND	200		60	620	µg/g	90	60	20
Ethylene Oxide	ND	0		5.8	56.2	µg/g	02.8	60	20
2-Methylbutane	ND	200		520	620	µg/g	93.8	60	20
Pentane	ND	200		500	6.0	µg/g	93.2	60	20
Ethanol	ND	200		550	630	µg/g	95	0	30
Ethyl Ether	ND	200		500	620	µg/g	92.6	60	20
2,2-Dimethylbutane	ND	0		60		µg/g	92.0	60	20
Acetone	ND	200		80	650	µg/g	89	60	20
2-Propanol	ND	200		0	6.0	µg/g	28.8	60	20
Ethyl Formate	ND	500		20	600	µg/g	28.8	0	30
Acetonitrile	ND	00		53	98	µg/g	9.0	60	20
Methyl Acetate	ND	500		0	6.0	µg/g	9.3	0	30
2,3-Dimethylbutane	ND	0		6	6	µg/g	93.2	60	20
Dichloromethane	ND	60		6	9.0	µg/g	9.6	60	20
2-Methylpentane	ND	0		5	6	µg/g	89.2	60	20
M.E.	ND	500		20	600	µg/g	88.8	0	30
3-Methylpentane	ND	0		56	5	µg/g	89	60	20
Hexane	ND	0		59		µg/g	89.8	60	20
Propanol	ND	500		5.0	6.0	µg/g	95	0	30
Methyl ethyl ketone	ND	500		60	600	µg/g	9.3	0	30
Ethyl acetate	ND	200		50	630	µg/g	89.0	60	20
2-Butanol	ND	200		390	620	µg/g	85.8	60	20
Tetrahydrofuran	ND	00		0	500	µg/g	86.0	60	20
Cyclohexane	ND	200		390	620	µg/g	85.8	60	20
2-methyl propanol	ND	500		0	620	µg/g	88.9	0	30
Benzene	ND			6	5.32	µg/g	82.0	60	20
Isopropyl Acetate	ND	200		380	620	µg/g	85.2	60	20
Heptane	ND	200		380	0	µg/g	8.0	60	20
Butanol	ND	500		250	600	µg/g	8	0	30
Propyl Acetate	ND	500		0	600	µg/g	89	0	30
Dioxane	ND	00		388	50	µg/g	9.0	60	20
2-Ethoxyethanol	ND	0		50	8	µg/g	82.9	60	20
Methylisobutylketone	ND	500		350	6.0	µg/g	83.9	0	30
3-Methyl butanol	ND	500		2.0	6.0	µg/g	8.9	0	30
Ethylene Glycol	ND	200		02	9	µg/g	8	60	20
oluene	ND	200		00	9	µg/g	8.5	60	20
Isobutyl Acetate	ND	500		0	600	µg/g	88	0	30
Pentanol	ND	500		360	6.0	µg/g	8.5	0	30
Butyl Acetate	ND	500		20	6.0	µg/g	88.2	0	30
Ethyl benzene	ND	200		59	9.3	µg/g	8.0	60	20
m-p Xylene	ND	200		59	996	µg/g	6.2	60	20
o-Xylene	ND	200			9.3	µg/g	6.8	60	20
Cumene	ND	0		29	0	µg/g	5.9	60	20
Anisole	ND	500		90	6.0	µg/g	3.9	0	30
DMSO	ND	500		80	630	µg/g	90.8	0	30
2-dimethoxyethane	ND	50		8	6	µg/g	90.2	0	30
diethylamine	ND	500		260	600	µg/g	8.8	0	30
N,N-dimethylformamide	ND	50		09	9	µg/g	82.3	0	30
N,N-dimethylacetamide	ND	50			98	µg/g	83	0	30
Pyridine	ND	50		58	80	µg/g	8.8	0	30
1,2-Dichloroethane	ND			03		µg/g	03.0	0	30
Chloroform	ND			0		µg/g	0.0	0	30
trichloroethylene	ND			0.99		µg/g	99	0	30



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QC Sample Duplicate		Sample ID: 22 004049 0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	20	Acceptable	
2,2 Dimethylpropane	ND	ND	200	µg/g	0.0	20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	20	Acceptable	
2 Methyl butane	ND	ND	200	µg/g	0.0	20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	20	Acceptable	
Ethanol	3300	3	200	µg/g	3.9	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	60	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 Methyl pentane	ND	ND	30	µg/g	0.0	20	Acceptable	
Mt SE	ND	ND	500	µg/g	0.0	20	Acceptable	
3 Methyl pentane	ND	ND	30	µg/g	0.0	20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	20	Acceptable	
Propanol	ND	ND	500	µg/g	0.0	20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	20	Acceptable	
2 Butanol	ND	ND	200	µg/g	0.0	20	Acceptable	
tetrahydrofuran	ND	ND	60	µg/g	0.0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	20	Acceptable	
2 methyl propanol	ND	ND	500	µg/g	0.0	20	Acceptable	
Benzene	ND	ND	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	
Butanol	ND	ND	500	µg/g	0.0	20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	20	Acceptable	
Dioxane	ND	ND	60	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 butanol	ND	ND	500	µg/g	0.0	20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	20	Acceptable	
okane	ND	ND	200	µg/g	0.0	20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	20	Acceptable	
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	
2 dimethoxyethane	ND	ND	50	µg/g	0.0	20	Acceptable	
riethylamine	ND	ND	500	µg/g	0.0	20	Acceptable	
N N d methylformam de	ND	ND	50	µg/g	0.0	20	Acceptable	
N N d methylacetamide	ND	ND	50	µg/g	0.0	20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	20	Acceptable	
2 Dichloroethane	ND	ND	µg/g	0.0	20	Acceptable		
Chloroform	ND	ND	µg/g	0.0	20	Acceptable		
dichloroethylene	ND	ND	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



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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.