

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GEL.MSL20	BATCH # EH07	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 Muscle Gel (30 mL)	SERVING SIZE 1 pump (0.38g)	
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028	

POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	7.49 mg/serving	19.70 mg/g	1.97 %
Total THC (d9-THC, THCA)	0.24 mg/serving	0.64 mg/g	0.06 %
Cannabigerol (CBG)	0.34 mg/serving	0.89 mg/g	0.09 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.22 mg/serving	0.59 mg/g	0.06 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.24 mg/serving	0.64 mg/g	0.06 %
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	10900	50,000 mg/day
Heptane	729	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.

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GEL.MSL20

BATCH # EH07

PRODUCT NAME CBD Muscle Gel (100 mL) **SERVING SIZE** 1 pump (0.9g)

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)	17.73 mg/serving	19.70 mg/g	1.97 %
Total THC (d9-THC, THCA)	0.58 mg/serving	0.64 mg/g	0.06 %
Cannabigerol (CBG)	0.80 mg/serving	0.89 mg/g	0.09 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.53 mg/serving	0.59 mg/g	0.06 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.58 mg/serving	0.64 mg/g	0.06 %
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	10900	50,000 mg/day
Heptane	729	50,000 mg/day
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MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass



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



Report Number: 22-010584/D002.R002
Report Date: 09/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 09/06/22 13:39

This is an amended version of report# 22-010584/D002.R001.
 Reason: Report includes additional testing.

Customer: Etz Hayim Holdings
Product identity: FORM-GEL.MSL20-EH07
Client/Metric ID: .
Laboratory ID: 22-010584-0002

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.592		mg/1g		CBD-Total per Serving Size 19.7 mg/1g
CBD per 1g	19.7		mg/1g		
CBDV per 1g	0.0908		mg/1g		THC-Total per Serving Size 0.642 mg/1g
CBG per 1g	0.889		mg/1g		(Reported in milligrams per serving)
CBT per 1g	0.258		mg/1g		
Δ9-THC per 1g	0.642		mg/1g		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol [¶]	10900		
2-Propanol (IPA) [¶]	729	5000	pass

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 Number: 22-010584/D002.R002
Report Date: 09/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 09/06/22 13:39



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

Product identity: FORM-GEL.MSL20-EH07

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-010584-0002

Evidence of Cooling: No

Temp: 23.2 °C

Relinquished by: Client

Serving Size #1: 1 g

Serving Size #1: 1 g

Potency per 1g		Method: J AOAC 2015 V98-6 (mod)		Units mg/se Batch: 2207953		Analyze: 9/21/22 5:47:00 AM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1g	0.592		mg/1g	0.0330		
CBC-A per 1g	< LOQ		mg/1g	0.0330		
CBC-Total per 1g	0.592		mg/1g	0.0620		
CBD per 1g	19.7		mg/1g	0.330		
CBD-A per 1g	< LOQ		mg/1g	0.0330		
CBD-Total per 1g	19.7		mg/1g	0.359		
CBDV per 1g	0.0908		mg/1g	0.0330		
CBDV-A per 1g	< LOQ		mg/1g	0.0330		
CBDV-Total per 1g	0.0908		mg/1g	0.0617		
CBE per 1g	< LOQ		mg/1g	0.0330		
CBG per 1g	0.889		mg/1g	0.0330		
CBG-A per 1g	< LOQ		mg/1g	0.0330		
CBG-Total per 1g	0.889		mg/1g	0.0617		
CBL per 1g	< LOQ		mg/1g	0.0330		
CBL-A per 1g	< LOQ		mg/1g	0.0330		
CBL-Total per 1g	< LOQ		mg/1g	0.0620		
CBN per 1g	< LOQ		mg/1g	0.0330		
CBT per 1g	0.258		mg/1g	0.0330		
Δ8-THCV per 1g	< LOQ		mg/1g	0.0330		
Δ10-THC per 1g	< LOQ		mg/1g	0.0330		
Δ8-THC per 1g	< LOQ		mg/1g	0.0330		
Δ9-THC per 1g	0.642		mg/1g	0.0330		
exo-THC per 1g	< LOQ		mg/1g	0.0330		
THC-A per 1g	< LOQ		mg/1g	0.0330		
THC-Total per 1g	0.642		mg/1g	0.0620		
THCV per 1g	< LOQ		mg/1g	0.0330		
THCV-A per 1g	< LOQ		mg/1g	0.0330		
THCV-Total per 1g	< LOQ		mg/1g	0.0620		
Total Cannabinoids per 1g	22.2		mg/1g			



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Received: 09/06/22 13:39

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2208014	09/25/22 AOAC 991.14 (Petrifilm)		I
Total Coliforms	< LOQ		cfu/g	10	2208014	09/25/22 AOAC 991.14 (Petrifilm)		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208015	09/26/22 AOAC 2014.05 (RAPID)		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208015	09/26/22 AOAC 2014.05 (RAPID)		I

Solvents Method: Residual Solvents by GC/MS Units µg/g Batch 2208177 Analyze 09/28/22 09:50 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)*	729	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*	10900		200		E
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							



Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)					Units mg/kg		Batch 2208107		Analyze 09/26/22 02:02 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		Flonicamid [‡]	< LOQ	1.0	0.400	pass	
Fludioxonil [‡]	< LOQ	0.40	0.200	pass		Hexythiazox [‡]	< LOQ	1.0	0.400	pass	
Imazalil [‡]	< LOQ	0.20	0.100	pass		Imidacloprid [‡]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [‡]	< LOQ	0.40	0.200	pass		Malathion [‡]	< LOQ	0.20	0.100	pass	
Metalaxyl [‡]	< LOQ	0.20	0.100	pass		Methiocarb [‡]	< LOQ	0.20	0.100	pass	
Methomyl [‡]	< LOQ	0.40	0.200	pass		MGK-264 [‡]	< LOQ	0.20	0.100	pass	
Myclobutanil [‡]	< LOQ	0.20	0.100	pass		Naled [‡]	< LOQ	0.50	0.250	pass	
Oxamyl [‡]	< LOQ	1.0	0.500	pass		Paclobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.200	pass		Permethrin [‡]	< LOQ	0.20	0.100	pass	
Phosmet [‡]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [‡]	< LOQ	2.0	1.00	pass	
Prallethrin [‡]	< LOQ	0.20	0.200	pass		Propiconazole [‡]	< LOQ	0.40	0.200	pass	
Propoxur [‡]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [‡]	< LOQ	1.0	0.500	pass	
Pyridaben [‡]	< LOQ	0.20	0.100	pass		Spinosad [‡]	< LOQ	0.20	0.100	pass	
Spiromesifen [‡]	< LOQ	0.20	0.100	pass		Spirotetramat [‡]	< LOQ	0.20	0.100	pass	
Spiroxamine [‡]	< LOQ	0.40	0.200	pass		Tebuconazole [‡]	< LOQ	0.40	0.200	pass	
Thiacloprid [‡]	< LOQ	0.20	0.100	pass		Thiamethoxam [‡]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [‡]	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes		
Arsenic	< LOQ	0.200	mg/kg	0.0941	2208071	09/23/22 AOAC 2013.06 (mod.)	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0941	2208071	09/23/22 AOAC 2013.06 (mod.)	pass			
Lead	< LOQ	0.500	mg/kg	0.0941	2208071	09/23/22 AOAC 2013.06 (mod.)	pass			
Mercury	< LOQ	0.100	mg/kg	0.0471	2208071	09/23/22 AOAC 2013.06 (mod.)	pass			



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.

* = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

E: Analyte concentration exceeds the calibration range, results are estimated.

I: Insufficient sample received to meet method requirements.

Approved Signatory



Derrick Tanner
General Manager



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



Report Number: 22-010584/D002.R002
Report Date: 09/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 09/06/22 13:39



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

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Field ID		Date/Time Collected		Analysis Requested										Matrix		Weight	Serving size for edibles	Comments/Metric ID	
				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				
FORM-BLM.UN50-EH73		8/31	5:00	X		X	X				X	X	X			Balm		mg/g	Potency First
FORM-GEL.MSL20-EH07		9/1	1:55	X	X	X					X	X	X			Topical		mg/g	Potency First
																			LazNat Discount

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:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)							Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 23.2
							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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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 333-007-0430



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Report Number: 22-010584/D002.R002
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Revision 1 Documen D 7148
 Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2207568

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0337	0.033	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0361	0.033	%	108	80.0 - 120	Acceptable	
CBE	2	0.0340	0.033	%	102	80.0 - 120	Acceptable	
CBD	1	0.0313	0.033	%	93.9	90.0 - 110	Acceptable	
CBGA	1	0.0313	0.033	%	94.9	80.0 - 120	Acceptable	
CBG	1	0.0344	0.036	%	95.3	80.0 - 120	Acceptable	
CBD	1	0.0336	0.036	%	93.9	90.0 - 110	Acceptable	
THCV	2	0.0346	0.033	%	104	80.0 - 120	Acceptable	
δ8THCV	2	0.0347	0.033	%	104	80.0 - 120	Acceptable	
THCVA	2	0.0326	0.033	%	97.7	80.0 - 120	Acceptable	
CBN	1	0.0344	0.036	%	95.3	90.0 - 110	Acceptable	
exo-THC	2	0.0328	0.033	%	98.5	80.0 - 120	Acceptable	
δ9THC	1	0.0382	0.039	%	99.1	90.0 - 110	Acceptable	
δ8THC	1	0.0333	0.033	%	99.7	80.0 - 120	Acceptable	
CBL	2	0.0342	0.033	%	103	80.0 - 120	Acceptable	
δ10THC	1	0.0297	0.033	%	89.2	80.0 - 120	Acceptable	
CB	2	0.0334	0.033	%	100	80.0 - 120	Acceptable	
THCA	1	0.0303	0.032	%	95.2	90.0 - 110	Acceptable	
CBCA	2	0.0348	0.033	%	105	80.0 - 120	Acceptable	
CBLA	2	0.0346	0.033	%	104	80.0 - 120	Acceptable	
CBT	2	0.0320	0.033	%	96.0	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	<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	
δ8THCV	<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	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
δ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2207568						
Sample Duplicate		Sample ID: 22-010496-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0371	0.0378	0.003	%	1.84	< 20	Acceptable	
CBE	0.0372	0.0382	0.003	%	2.68	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	2.64	2.66	0.003	%	0.718	< 20	Acceptable	
CBD	2.55	2.58	0.003	%	1.11	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0058	0.0060	0.003	%	2.53	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ9THC	0.112	0.108	0.003	%	3.03	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.133	0.134	0.003	%	0.728	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0	0	0.003	%	22.5	< 20	Outlier	

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: 22-010584/D002.R002
 Report Date: 09/29/2022
 ORELAP#: OR100028
 Purchase Order:
 Received: 09/06/22 13:39



Revision 1 Documen D 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2207953

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0346	0.033	%	104	80.0 - 120	Acceptable	
CBDV	2	0.0362	0.033	%	109	80.0 - 120	Acceptable	
CBE	2	0.0341	0.033	%	102	80.0 - 120	Acceptable	
CBD	1	0.0334	0.033	%	100	90.0 - 110	Acceptable	
CBGA	1	0.0329	0.033	%	99.5	80.0 - 120	Acceptable	
CBG	1	0.0365	0.036	%	101	80.0 - 120	Acceptable	
CBD	1	0.0367	0.036	%	103	90.0 - 110	Acceptable	
THCV	2	0.0359	0.033	%	108	80.0 - 120	Acceptable	
δ8THCV	2	0.0363	0.033	%	109	80.0 - 120	Acceptable	
THCVA	2	0.0339	0.033	%	102	80.0 - 120	Acceptable	
CBN	1	0.0365	0.036	%	101	90.0 - 110	Acceptable	
exo-THC	2	0.0345	0.033	%	103	80.0 - 120	Acceptable	
δ9THC	1	0.0389	0.039	%	101	90.0 - 110	Acceptable	
δ8THC	1	0.0344	0.033	%	103	80.0 - 120	Acceptable	
CBL	2	0.0328	0.033	%	98.3	80.0 - 120	Acceptable	
Δ10THC	1	0.0312	0.033	%	93.6	80.0 - 120	Acceptable	
CBC	2	0.0357	0.033	%	107	80.0 - 120	Acceptable	
THCA	1	0.0309	0.032	%	97.2	90.0 - 110	Acceptable	
CBCA	2	0.0339	0.033	%	102	80.0 - 120	Acceptable	
CBLA	2	0.0354	0.033	%	106	80.0 - 120	Acceptable	
CBT	2	0.0305	0.033	%	91.4	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	<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	
δ8THCV	<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	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
Δ10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

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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: 2207953						
Sample Duplicate		Sample ID: 22-010321-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0481	0.0477	0.003	%	0.950	< 20	Acceptable	
CBE	0.112	0.111	0.003	%	0.672	< 20	Acceptable	
CBD	0.0193	0.0192	0.003	%	0.650	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.176	0.176	0.003	%	0.0926	< 20	Acceptable	
CBD	2.82	2.79	0.003	%	1.19	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0629	0.0635	0.003	%	0.912	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ9THC	0.277	0.279	0.003	%	0.773	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.347	0.348	0.003	%	0.293	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0911	0.0940	0.003	%	3.09	< 20	Acceptable	

Abbreviations

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Units of Measure:



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2208107				
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.065	1.000	106.5	50.0 150	
Accephate	0.000	< 0.250		0.891	1.000	89.1	60.0 120	
Acetaminophen	0.000	< 1.000		3.318	4.000	82.9	40.0 160	
Acetamiprid	0.000	< 0.100		0.394	0.400	98.5	60.0 120	
Aldicarb	0.000	< 0.200		0.790	0.800	98.7	60.0 120	
Azoxystrobin	0.000	< 0.100		0.432	0.400	108.0	60.0 120	
Bifenazate	0.000	< 0.100		0.428	0.400	107.1	60.0 120	
Bifenthrin	0.000	< 0.100		0.405	0.400	101.2	50.0 150	
Boscalid	0.000	< 0.200		0.863	0.800	107.9	60.0 120	
Carbaryl	0.000	< 0.100		0.402	0.400	100.4	60.0 120	
Carbofuran	0.000	< 0.100		0.408	0.400	102.1	60.0 120	
Chlorantraniliprole	0.000	< 0.100		0.416	0.400	104.1	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.805	2.000	90.3	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.398	0.400	99.5	60.0 120	
Clofentazine	0.000	< 0.100		0.080	0.400	20.1	60.0 120	q6
Cyfluthrin	0.000	< 0.500		1.991	2.000	99.5	50.0 150	
Cypermethrin	0.000	< 0.500		1.977	2.000	98.9	50.0 150	
Daminozide	0.000	< 0.500		0.636	2.000	31.8	60.0 120	q6
Diazinon	0.000	< 0.100		0.461	0.400	115.3	60.0 120	
Dichlorvos	0.000	< 0.500		2.371	2.000	118.6	60.0 120	
Dimethoate	0.000	< 0.100		0.385	0.400	96.1	60.0 120	
Ethoprophos	0.000	< 0.100		0.446	0.400	111.4	60.0 120	
Etofenprox	0.000	< 0.200		0.809	0.800	101.1	50.0 150	
Etoxazole	0.000	< 0.100		0.462	0.400	115.6	60.0 120	
Fenoxycarb	0.000	< 0.100		0.424	0.400	105.9	60.0 120	
Fenpyroximate	0.000	< 0.200		0.852	0.800	106.4	60.0 120	
Fipronil	0.000	< 0.200		0.840	0.800	105.0	60.0 120	
Fonicamid	0.000	< 0.250		1.009	1.000	100.9	60.0 120	
Fludioxonil	0.000	< 0.200		0.824	0.800	103.0	50.0 150	
Hexythiazox	0.000	< 0.250		1.015	1.000	101.5	60.0 120	
Imazalil	0.000	< 0.100		0.396	0.400	99.0	60.0 120	
Imidacloprid	0.000	< 0.200		0.851	0.800	106.3	60.0 120	
Kresoxim methyl	0.000	< 0.200		0.797	0.800	99.6	60.0 120	
Malathion	0.000	< 0.100		0.440	0.400	109.9	60.0 120	
Metaxyl	0.000	< 0.100		0.416	0.400	103.9	60.0 120	
Methiocarb	0.000	< 0.100		0.428	0.400	107.1	60.0 120	
Methomyl	0.000	< 0.200		0.776	0.800	96.9	60.0 120	
MGK 264	0.000	< 0.100		0.395	0.400	98.8	50.0 150	
Myclobutanil	0.000	< 0.100		0.422	0.400	105.4	60.0 120	
Naled	0.000	< 0.250		0.301	1.000	30.1	50.0 150	q6
Oxamyl	0.000	< 0.500		2.004	2.000	100.2	60.0 120	
Paclbutrazole	0.000	< 0.200		0.912	0.800	114.0	60.0 120	
Parathion Methyl	0.000	< 0.200		0.676	0.800	84.5	50.0 150	
Permethrin	0.000	< 0.100		0.403	0.400	100.7	50.0 150	
Phosmet	0.000	< 0.100		0.428	0.400	106.9	50.0 150	
Piperonyl butoxide	0.000	< 0.500		2.335	2.000	116.8	60.0 120	
Prallethrin	0.000	< 0.100		0.406	0.400	101.6	60.0 120	
Propiconazole	0.000	< 0.200		0.860	0.800	107.5	60.0 120	
Propoxur	0.000	< 0.100		0.406	0.400	101.6	60.0 120	
Pyrethrin (Summe)	0.000	< 0.100		0.454	0.413	109.9	60.0 120	
Pyridaben	0.000	< 0.100		0.411	0.400	102.9	50.0 150	
Spinosad	0.000	< 0.100		0.414	0.388	106.8	50.0 150	
Spiromesifen	0.022	< 0.100		0.412	0.400	102.9	60.0 120	
Spirotetramat	0.000	< 0.100		0.427	0.400	106.8	60.0 120	
Spiroxamine	0.000	< 0.200		0.875	0.800	109.4	60.0 120	
ebuconazole	0.000	< 0.200		0.869	0.800	108.6	60.0 120	
hiacloprid	0.000	< 0.100		0.400	0.400	100.1	60.0 120	
hiamethoxam	0.000	< 0.100		0.403	0.400	100.7	60.0 120	
rifloxystrobin	0.000	< 0.100		0.436	0.400	109.1	60.0 120	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2208107				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-010584-0002								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.931	0.859	1.000	8.0%	< 30	93.1%	85.9%	50 150	
Accephate	0.000	1.113	1.059	1.000	4.9%	< 30	111.3%	105.9%	50 150	
Acequinocyl	0.000	4.480	4.573	4.000	2.1%	< 30	112.0%	114.3%	50 150	
Acetamiprid	0.000	0.513	0.526	0.400	2.4%	< 30	128.3%	131.4%	50 150	
Aldicarb	0.000	0.953	0.975	0.800	2.3%	< 30	119.1%	121.9%	50 150	
Azoxystrobin	0.000	0.446	0.452	0.400	1.3%	< 30	111.5%	113.0%	50 150	
Bifenazate	0.000	0.424	0.412	0.400	2.8%	< 30	105.9%	103.0%	50 150	
Bifenthrin	0.000	0.411	0.401	0.400	2.5%	< 30	102.6%	100.1%	50 150	
Boscalid	0.000	0.813	0.728	0.800	11.0%	< 30	101.6%	91.0%	50 150	
Carbaryl	0.000	0.516	0.526	0.400	1.9%	< 30	128.9%	131.4%	50 150	
Carbofuran	0.000	0.527	0.527	0.400	0.1%	< 30	131.7%	131.6%	50 150	
Chlorantraniliprole	0.000	0.368	0.399	0.400	7.9%	< 30	92.1%	99.7%	50 150	
Chlorfenapyr	0.000	1.243	1.085	2.000	13.6%	< 30	62.1%	54.2%	50 150	
Chlorpyrifos	0.004	0.351	0.364	0.400	3.6%	< 30	86.8%	90.0%	50 150	
Clofentezine	0.000	0.447	0.426	0.400	4.6%	< 30	111.6%	106.6%	50 150	
Cyfluthrin	0.000	2.465	2.520	2.000	2.2%	< 30	123.3%	126.0%	30 150	
Cypermethrin	0.000	2.572	2.562	2.000	0.4%	< 30	128.6%	128.1%	50 150	
Daminozide	0.000	0.972	0.975	2.000	0.4%	< 30	48.6%	48.8%	30 150	
Diazinon	0.000	0.480	0.477	0.400	0.5%	< 30	119.9%	119.3%	50 150	
Dichlorvos	0.000	2.302	2.243	2.000	2.6%	< 30	115.1%	112.1%	50 150	
Dimethoate	0.000	0.459	0.463	0.400	1.0%	< 30	114.6%	115.8%	50 150	
Ethoprophos	0.000	0.460	0.455	0.400	1.1%	< 30	114.9%	113.7%	50 150	
Etofenprox	0.000	0.342	0.379	0.800	3.9%	< 30	117.7%	122.4%	50 150	
Etoxazole	0.000	0.471	0.486	0.400	3.2%	< 30	117.6%	121.5%	50 150	
Fenoxycarb	0.000	0.453	0.444	0.400	2.2%	< 30	113.4%	110.9%	50 150	
Fenpyroximate	0.000	0.807	0.812	0.800	0.6%	< 30	100.9%	101.5%	50 150	
Fipronil	0.000	1.011	0.984	0.800	2.7%	< 30	126.4%	123.0%	50 150	
Fonicamid	0.000	0.995	0.976	1.000	2.0%	< 30	99.5%	97.6%	50 150	
Fludioxonil	0.000	0.758	0.759	0.800	0.1%	< 30	94.7%	94.8%	50 150	
Hexythiazox	0.000	0.914	0.919	1.000	0.5%	< 30	91.4%	91.9%	50 150	
Imazalil	0.000	0.499	0.505	0.400	1.1%	< 30	124.9%	126.3%	50 150	
Imidacloprid	0.000	0.653	0.614	0.800	6.2%	< 30	81.7%	76.8%	50 150	
Kresoxim methyl	0.000	0.740	0.751	0.800	1.5%	< 30	92.5%	93.8%	50 150	
Malathion	0.000	0.478	0.475	0.400	0.7%	< 30	119.6%	118.7%	50 150	
Metaxyl	0.000	0.477	0.475	0.400	0.3%	< 30	119.2%	118.8%	50 150	
Methiocarb	0.000	0.388	0.403	0.400	3.8%	< 30	97.0%	100.7%	50 150	
Methomyl	0.000	0.819	0.796	0.800	2.9%	< 30	102.4%	99.5%	50 150	
MGK 264	0.006	0.448	0.433	0.400	3.6%	< 30	110.5%	106.6%	50 150	
Myclobutanil	0.000	0.395	0.382	0.400	3.4%	< 30	98.7%	95.4%	50 150	
Naled	0.000	1.209	1.213	1.000	0.3%	< 30	120.9%	121.3%	50 150	
Oxamyl	0.000	2.005	1.956	2.000	2.5%	< 30	100.2%	97.8%	50 150	
Paclbutrazole	0.000	1.047	1.008	0.800	3.8%	< 30	130.9%	125.9%	50 150	
Parathion Methyl	0.022	0.876	1.027	0.800	16.2%	< 30	106.8%	125.6%	30 150	
Permethrin	0.000	0.393	0.393	0.400	0.2%	< 30	98.2%	98.4%	50 150	
Phosmet	0.000	0.423	0.414	0.400	2.2%	< 30	105.8%	103.5%	50 150	
Piperonyl butoxide	0.000	2.358	2.327	2.000	1.3%	< 30	117.9%	116.4%	50 150	
Prallethrin	0.001	0.403	0.393	0.400	2.5%	< 30	100.6%	98.1%	50 150	
Propiconazole	0.000	0.886	0.904	0.800	2.0%	< 30	110.8%	113.0%	50 150	
Propoxur	0.000	0.511	0.507	0.400	0.7%	< 30	127.6%	126.7%	50 150	
Pyrethrin (Summe)	0.000	0.441	0.444	0.413	0.6%	< 30	106.9%	107.6%	50 150	
Pyridaben	0.000	0.551	0.551	0.400	0.1%	< 30	137.9%	137.9%	50 150	
Spinosad	0.000	0.433	0.421	0.388	2.8%	< 30	111.6%	108.5%	50 150	
Spiromesifen	0.000	0.581	0.569	0.400	2.1%	< 30	145.3%	142.3%	50 150	
Spirotetramat	0.000	0.305	0.308	0.400	0.8%	< 30	76.4%	77.0%	50 150	
Spiroxamine	0.000	0.956	0.969	0.800	1.4%	< 30	119.5%	121.2%	50 150	
ebuconazole	0.000	0.801	0.804	0.800	0.4%	< 30	100.1%	100.5%	50 150	
hiacloprid	0.000	0.492	0.487	0.400	1.0%	< 30	122.9%	121.8%	50 150	
hiamethoxam	0.000	0.396	0.389	0.400	1.7%	< 30	98.9%	97.2%	50 150	
rifloxystrobin	0.000	0.437	0.432	0.400	1.0%	< 30	109.2%	108.1%	50 150	



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Revision Document D
 Legacy D Effective

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2208177					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		490	572	µg/g	85.7	60	120
Isobutane	ND	< 200		602	731	µg/g	82.4	60	120
Butane	ND	< 200		592	731	µg/g	81.0	60	120
2,2 Dimethylpropane	ND	< 200		835	936	µg/g	89.2	60	120
Methanol	ND	< 200		1830	1650	µg/g	110.9	60	120
Ethylene Oxide	ND	< 30		48.3	56.2	µg/g	85.9	60	120
2 Methylbutane	ND	< 200		1680	1650	µg/g	101.8	60	120
Pentane	ND	< 200		1780	1650	µg/g	107.9	60	120
Ethanol	ND	< 200		1730	1660	µg/g	104.2	70	130
Ethyl Ether	ND	< 200		1730	1630	µg/g	106.1	60	120
2,2 Dimethylbutane	ND	< 30		196	189	µg/g	103.7	60	120
Acetone	ND	< 200		1780	1650	µg/g	107.9	60	120
2 Propanol	ND	< 200		1760	1650	µg/g	106.7	60	120
Ethyl Formate	ND	< 500		1600	1610	µg/g	99.4	70	130
Acetonitrile	ND	< 100		532	504	µg/g	105.6	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
Dichloromethane	ND	< 60		538	521	µg/g	103.3	60	120
2 Methylpentane	ND	< 30		207	187	µg/g	110.7	60	120
M BE	ND	< 500		1730	1600	µg/g	108.1	70	130
3 Methylpentane	ND	< 30		200	188	µg/g	106.4	60	120
Hexane	ND	< 30		196	182	µg/g	107.7	60	120
1 Propanol	ND	< 500		1820	1610	µg/g	113.0	70	130
Methylethylketone	ND	< 500		1820	1600	µg/g	113.8	70	130
Ethyl acetate	ND	< 200		1740	1630	µg/g	106.7	60	120
2 Butanol	ND	< 200		1680	1630	µg/g	103.1	60	120
tetrahydrofuran	ND	< 100		524	506	µg/g	103.6	60	120
Cyclohexane	ND	< 200		1710	1640	µg/g	104.3	60	120
2 methyl 1 propanol	ND	< 500		1660	1620	µg/g	102.5	70	130
Benzene	ND	< 1		4.94	4.93	µg/g	100.2	60	120
Isopropyl Acetate	ND	< 200		1710	1640	µg/g	104.3	60	120
Heptane	ND	< 200		1700	1630	µg/g	104.3	60	120
1 Butanol	ND	< 500		1730	1600	µg/g	108.1	70	130
Propyl Acetate	ND	< 500		1800	1620	µg/g	111.1	70	130
1,4 Dioxane	ND	< 100		485	493	µg/g	98.4	60	120
2 Ethoxyethanol	ND	< 30		356	371	µg/g	97.1	60	120
Methylisobutylketone	ND	< 500		1770	1620	µg/g	109.3	70	130
3 Methyl 1 butanol	ND	< 500		1670	1610	µg/g	103.7	70	130
Ethylene Glycol	ND	< 200		561	494	µg/g	113.6	60	120
oluene	ND	< 100		480	506	µg/g	94.9	60	120
Isobutyl Acetate	ND	< 500		1810	1620	µg/g	111.7	70	130
1 Pentanol	ND	< 500		1780	1610	µg/g	110.6	70	130
Butyl Acetate	ND	< 500		1730	1610	µg/g	107.5	70	130
Ethylbenzene	ND	< 200		931	996	µg/g	93.5	60	120
m,p Xylene	ND	< 200		950	1010	µg/g	94.1	60	120
o Xylene	ND	< 200		904	979	µg/g	92.3	60	120
Cumene	ND	< 30		173	188	µg/g	92.0	60	120
Anisole	ND	< 500		1480	1610	µg/g	91.9	70	130
DMSO	ND	< 500		1410	1600	µg/g	88.1	70	130
1,2 dimethoxyethane	ND	< 50		217	190	µg/g	114.2	70	130
riethylamine	ND	< 500		1700	1610	µg/g	105.6	70	130
N,N dimethylformamide	ND	< 150		490	496	µg/g	98.8	70	130
N,N dimethylacetamide	ND	< 150		479	483	µg/g	99.2	70	130
Pyridine	ND	< 50		166	167	µg/g	99.4	70	130
1,2 Dichloroethane	ND	< 1		1.08	1	µg/g	108.0	70	130
Chloroform	ND	< 1		1.1	1	µg/g	110.0	70	130
richloroethylene	ND	< 1		1.05	1	µg/g	105.0	70	130



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

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 Report Date: 09/29/2022
 ORELAP#: OR100028
 Purchase Order:
 Received: 09/06/22 13:39



Revision Document D
 Legacy D Effective

QC - Sample Duplicate		Sample ID: 22-010584-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2 Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	10400	10900	200	µg/g	4.7	< 20	Acceptable	E
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	735	729	200	µg/g	0.8	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3 Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2 Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
M BE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3 Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1 Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
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	
etrahydrofuran	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	
diethylamine	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	
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	

Abbreviations

- ND None Detected at or above MRL
- RPD Relative Percent Difference
- LOQ Limit of Quantitation
- E Analyte concentration exceeds the calibration range, results are estimated.

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.