

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU GEL.MSL20

BATCH # FC24

PRODUCT NAME CBD Muscle Gel

SERVING SIZE 1 pump (30 mL)

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)	10.45 mg/serving	27.50 mg/g	2.75 %
Total THC (d9-THC, THCA)	0.54 mg/serving	1.43 mg/g	0.14 %
Cannabigerol (CBG)	0.20 mg/serving	0.54 mg/g	0.05 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.41 mg/serving	1.09 mg/g	0.11 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.54 mg/serving	1.43 mg/g	0.14 %
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	6 µg/day ⁽¹⁾
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	5770 µg/g	50,000 mg/day
Heptane	<LOQ µg/g	50,000 mg/day

None of the 34 residual solvents tested found above limit of quantitation in the sample.

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

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Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation	
PRODUCT NAME	SERVING SIZE	LOD: Limit Of Detection	
LABORATORY :	OREGON ACCREDITATION: OR100028	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	10 µg/day ^[1]
Cadmium	µg/serving	µg/g	4.1 µg/day ^[1]
Lead	µg/serving	µg/g	6 µg/day ^[1]
Mercury	µg/serving	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	µg/g	50,000 mg/day	
Heptane	µg/g	50,000 mg/day	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.



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



Report Number: 23-004834/D002.R000
Report Date: 04/27/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/20/23 14:30

Customer: Etz Hayim Holdings
Product identity: GEL.MSL20-FC24
Client/Metric ID: .
Laboratory ID: 23-004834-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	1.09		mg/1g		CBD-Total per Serving Size 27.5 mg/1g
CBD per 1g	27.5		mg/1g		
CBDV per 1g	0.116		mg/1g		THC-Total per Serving Size 1.43 mg/1g
CBE per 1g	0.534		mg/1g		(Reported in milligrams per serving)
CBG per 1g	0.539		mg/1g		
CBL per 1g	0.0673		mg/1g		
CBT per 1g	0.605		mg/1g		
Δ9-THC per 1g	1.43		mg/1g		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol*	5770		
2-Propanol (IPA)*	356	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Purchase Order:
Received: 04/20/23 14:30

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

Product identity: GEL.MSL20-FC24

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-004834-0001

Evidence of Cooling: No

Temp: 19.9

Relinquished by: client

Serving Size #1: 1 g

Sample Results

Potency per 1g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2306631	Analyze: 4/21/23 8:44:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	1.09		mg/1g	0.0315	
CBC-A per 1g	< LOQ		mg/1g	0.0315	
CBC-Total per 1g	1.09		mg/1g	0.0591	
CBD per 1g	27.5		mg/1g	0.315	
CBD-A per 1g	< LOQ		mg/1g	0.0315	
CBD-Total per 1g	27.5		mg/1g	0.342	
CBDV per 1g	0.116		mg/1g	0.0315	
CBDV-A per 1g	< LOQ		mg/1g	0.0315	
CBDV-Total per 1g	0.116		mg/1g	0.0587	
CBE per 1g	0.534		mg/1g	0.0315	
CBG per 1g	0.539		mg/1g	0.0315	
CBG-A per 1g	< LOQ		mg/1g	0.0315	
CBG-Total per 1g	0.539		mg/1g	0.0587	
CBL per 1g	0.0673		mg/1g	0.0315	
CBL-A per 1g	< LOQ		mg/1g	0.0315	
CBL-Total per 1g	0.0673		mg/1g	0.0591	
CBN per 1g	< LOQ		mg/1g	0.0315	
CBT per 1g	0.605		mg/1g	0.0315	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0315	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0315	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0315	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0629	
Δ8-THC per 1g	< LOQ		mg/1g	0.0315	
Δ9-THC per 1g	1.43		mg/1g	0.0315	
exo-THC per 1g	< LOQ		mg/1g	0.0315	
THC-A per 1g	< LOQ		mg/1g	0.0315	
THC-Total per 1g	1.43		mg/1g	0.0591	
THCV per 1g	< LOQ		mg/1g	0.0315	
THCV-A per 1g	< LOQ		mg/1g	0.0315	
THCV-Total per 1g	< LOQ		mg/1g	0.0591	



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Received: 04/20/23 14:30

Potency per 1g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2306631	Analyze: 4/21/23 8:44:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	31.9		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2306616	04/25/23 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2306616	04/25/23 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23 AOAC 2014.05 (RAPID)		

Solvents	Method: Residual Solvents by GC/MS	Units µg/g	Batch 2306790	Analyze 04/27/23 01:07 PM							
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane*	< LOQ	380	100	pass		2-Butanol*	< LOQ	5000	200	pass	
2-Ethoxyethanol*	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)*	356	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< 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*	5770		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							



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)					Units mg/kg		Batch 2306747		Analyze 04/26/23 02:57 PM		
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb [‡]	< LOQ	0.40	0.200	pass		Azoxystrobin [‡]	< LOQ	0.20	0.100	pass	
Bifenazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass	
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass	
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< LOQ	1.0	0.500	pass		Daminozide [‡]	< LOQ	1.0	0.500	pass	
Diazinon [‡]	< LOQ	0.20	0.100	pass		Dichlorvos [‡]	< LOQ	1.0	0.500	pass	
Dimethoate [‡]	< LOQ	0.20	0.100	pass		Ethoprophos [‡]	< LOQ	0.20	0.100	pass	
Etofenprox [‡]	< LOQ	0.40	0.200	pass		Etoxazole [‡]	< LOQ	0.20	0.100	pass	
Fenoxycarb [‡]	< LOQ	0.20	0.100	pass		Fenpyroximate [‡]	< LOQ	0.40	0.200	pass	
Fipronil [‡]	< LOQ	0.40	0.200	pass		Flonicamid [‡]	< LOQ	1.0	0.400	pass	
Fludioxonil [‡]	< LOQ	0.40	0.200	pass		Hexythiazox [‡]	< LOQ	1.0	0.400	pass	
Imazalil [‡]	< LOQ	0.20	0.100	pass		Imidacloprid [‡]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [‡]	< LOQ	0.40	0.200	pass		Malathion [‡]	< LOQ	0.20	0.100	pass	
Metalaxyl [‡]	< LOQ	0.20	0.100	pass		Methiocarb [‡]	< LOQ	0.20	0.100	pass	
Methomyl [‡]	< LOQ	0.40	0.200	pass		MGK-264 [‡]	< LOQ	0.20	0.100	pass	
Myclobutanil [‡]	< LOQ	0.20	0.100	pass		Naled [‡]	< LOQ	0.50	0.250	pass	
Oxamyl [‡]	< LOQ	1.0	0.500	pass		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	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	0.100	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	0.0989	2306742	04/25/23	AOAC 2013.06 (mod.) ^p	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0989	2306742	04/25/23	AOAC 2013.06 (mod.) ^p	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0989	2306742	04/25/23	AOAC 2013.06 (mod.) ^p	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.0494	2306742	04/25/23	AOAC 2013.06 (mod.) ^p	pass		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

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

Approved Signatory

Derrick Tanner
General Manager



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Report Number: 23-004834/D002.R000
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Received: 04/20/23 14:30

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

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2306631

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0306	0.030	%	100	80.0	- 120	Acceptable		
CBDV	2	0.0302	0.030	%	102	80.0	- 120	Acceptable		
CBE	2	0.0337	0.034	%	99.3	80.0	- 120	Acceptable		
CBD	1	0.0300	0.031	%	96.8	90.0	- 110	Acceptable		
CBD ^Δ	1	0.0252	0.026	%	97.7	80.0	- 120	Acceptable		
CBC	1	0.0305	0.031	%	98.2	80.0	- 120	Acceptable		
CBD	1	0.0275	0.027	%	100	90.0	- 110	Acceptable		
THCV	2	0.0228	0.023	%	101	80.0	- 120	Acceptable		
δ8THC/	2	0.0265	0.027	%	99.6	80.0	- 120	Acceptable		
THCVA	2	0.0313	0.031	%	100	80.0	- 120	Acceptable		
CBN	1	0.0269	0.027	%	99.6	80.0	- 120	Acceptable		
exo-THC	2	0.0302	0.031	%	98.4	80.0	- 120	Acceptable		
δ9THC	1	0.0321	0.031	%	103	90.0	- 110	Acceptable		
δ8THC	1	0.0314	0.031	%	101	90.0	- 110	Acceptable		
9S-THC	1	0.0318	0.031	%	101	80.0	- 120	Acceptable		
CBL	2	0.0326	0.032	%	101	80.0	- 120	Acceptable		
9R-THC	1	0.0299	0.032	%	93.4	80.0	- 120	Acceptable		
CBC	2	0.0300	0.030	%	99.4	80.0	- 120	Acceptable		
THCA	1	0.0353	0.036	%	98.2	90.0	- 110	Acceptable		
CBCA	2	0.0324	0.032	%	99.9	80.0	- 120	Acceptable		
CBLA	2	0.0320	0.032	%	99.5	80.0	- 120	Acceptable		
CBT	2	0.0329	0.033	%	99.5	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	
CBD ^Δ	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC/	<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	
9S-THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

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

Units of Measure:
 %- Percent



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

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2306631						
Sample Duplicate		Sample ID: 23-003447-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0058	0.0060	0.003	%	4.55	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	1.55	2.09	0.003	%	29.7	< 20	Outlier	CM, R
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV/A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9SΔ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9RΔ10THC	<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 MRI
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation

Units of Measure:

%- Percent



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



Report Number: 23-004834/D002.R000
Report Date: 04/27/2023
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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2306747			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		0.912	1.000	91.2	50.0	150
Acephate	0.008	< 0.200		0.789	0.800	98.6	60.0	120
Acetamiprid	0.000	< 1.000		3.984	4.000	99.6	40.0	160
Acetamiprid	0.000	< 0.100		0.400	0.400	100.0	60.0	120
Aldicarb	0.000	< 0.200		0.854	0.800	106.7	60.0	120
Azoxystrobin	0.005	< 0.100		0.401	0.400	100.3	60.0	120
Bifenazate	0.000	< 0.100		0.418	0.400	104.4	60.0	120
Bifenthrin	0.000	< 0.100		0.395	0.400	99.0	50.0	150
Boscalid	0.000	< 0.200		0.745	0.800	93.1	60.0	120
Carbaryl	0.000	< 0.100		0.400	0.400	100.0	60.0	120
Carbendazim	0.000	< 0.100		0.414	0.400	103.4	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.399	0.400	99.7	60.0	120
Chlorfenapyr	0.000	< 0.500		2.191	2.000	109.6	60.0	120
Chlorpyrifos	0.000	< 0.100		0.401	0.400	100.3	60.0	120
Clofentezine	0.000	< 0.100		0.367	0.400	91.6	60.0	120
Cyfluthrin	0.000	< 0.500		1.965	2.000	98.3	50.0	150
Cypermethrin	0.064	< 0.500		1.967	2.000	98.4	50.0	150
Daminozide	0.000	< 0.500		0.691	2.000	34.5	60.0	120
Diazonin	0.000	< 0.100		0.421	0.400	105.2	60.0	120
Dichlorvos	0.000	< 0.500		1.977	2.000	98.9	60.0	120
Dimethoate	0.000	< 0.100		0.404	0.400	101.0	60.0	120
Ethiofencarb	0.000	< 0.100		0.404	0.400	101.0	60.0	120
Ethiofencarb	0.000	< 0.200		0.814	0.800	101.7	50.0	150
Etoxazole	0.000	< 0.100		0.411	0.400	102.9	60.0	120
Fenoxycarb	0.000	< 0.100		0.392	0.400	97.9	60.0	120
Fenpyroximate	0.000	< 0.200		0.827	0.800	103.3	60.0	120
Fipronil	0.000	< 0.200		0.825	0.800	103.1	60.0	120
Fonicamid	0.000	< 0.250		1.076	1.000	107.6	60.0	120
Fludioxonil	0.000	< 0.200		0.788	0.800	98.5	50.0	150
Hexythiazox	0.000	< 0.250		0.985	1.000	98.5	60.0	120
Imazalil	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Imidacloprid	0.000	< 0.200		0.842	0.800	105.2	60.0	120
Kiesoxim-methyl	0.000	< 0.200		0.777	0.800	97.2	60.0	120
Malathion	0.000	< 0.100		0.398	0.400	99.5	60.0	120
Metolaxyl	0.000	< 0.100		0.395	0.400	99.1	60.0	120
Methiocarb	0.000	< 0.100		0.395	0.400	99.0	60.0	120
Methomyl	0.000	< 0.200		0.857	0.800	107.2	60.0	120
MCK-264	0.000	< 0.100		0.400	0.400	99.9	50.0	150
Mydobutanol	0.000	< 0.100		0.400	0.400	100.0	60.0	120
Naled	0.000	< 0.250		0.970	1.000	97.0	50.0	150
Oxaryl	0.000	< 0.500		2.091	2.000	104.6	60.0	120
Padobutrazole	0.000	< 0.200		0.812	0.800	101.5	60.0	120
Parathion-Methyl	0.000	< 0.100		0.371	0.400	92.7	50.0	150
Permethrin	0.004	< 0.100		0.398	0.400	98.2	50.0	150
Phosmet	0.000	< 0.100		0.398	0.400	98.3	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.982	2.000	99.1	60.0	120
Prallethrin	0.000	< 0.100		0.390	0.400	97.5	60.0	120
Propiconazole	0.000	< 0.200		0.807	0.800	100.9	60.0	120
Propoxur	0.000	< 0.100		0.405	0.400	101.2	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.495	0.488	101.7	60.0	120
Pyridaben	0.000	< 0.100		0.398	0.400	99.6	50.0	150
Spinosad	0.000	< 0.100		0.398	0.388	102.5	50.0	150
Spiromesfen	0.000	< 0.100		0.400	0.400	99.9	60.0	120
Spirotetramat	0.000	< 0.100		0.391	0.400	97.8	60.0	120
Spiroxamine	0.000	< 0.200		0.801	0.800	100.2	60.0	120
Tebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120
Thiadoprid	0.000	< 0.100		0.406	0.400	101.4	60.0	120
Thiamethoxam	0.000	< 0.100		0.421	0.400	105.2	60.0	120
Trifloxystrobin	0.000	< 0.100		0.399	0.400	99.6	60.0	120

Q6



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg				Batch ID 2306747				
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.656	0.697	1.00	5.9%	< 30	65.6%	69.7%	50 - 150	
Acephate	0.00	0.753	0.711	0.80	5.8%	< 30	93.8%	88.6%	50 - 150	
Acetaminocyl	0.00	1.474	1.601	4.00	8.2%	< 30	36.9%	40.0%	50 - 150	Q
Acetamiprid	0.00	0.362	0.353	0.40	2.5%	< 30	90.8%	88.4%	50 - 150	
Aldicarb	0.00	0.774	0.729	0.80	6.0%	< 30	96.7%	91.1%	50 - 150	
Azoxystrobin	0.00	0.311	0.301	0.40	3.6%	< 30	77.9%	75.1%	50 - 150	
Bifenazate	0.00	0.304	0.292	0.40	4.0%	< 30	76.0%	72.9%	50 - 150	
Bifenthrin	0.00	0.169	0.172	0.40	2.2%	< 30	42.1%	43.1%	50 - 150	Q
Boscalid	0.00	0.577	0.574	0.80	0.6%	< 30	72.2%	71.7%	50 - 150	
Carbaryl	0.00	0.294	0.280	0.40	4.8%	< 30	73.6%	70.1%	50 - 150	
Carbofuran	0.00	0.333	0.319	0.40	4.3%	< 30	83.1%	79.7%	50 - 150	
Chlorantraniliprole	0.00	0.365	0.343	0.40	6.3%	< 30	91.3%	85.8%	50 - 150	
Chlorfenapyr	0.00	1.522	1.697	2.00	10.9%	< 30	76.1%	84.9%	50 - 150	
Chlorpyrifos	0.00	0.395	0.384	0.40	2.9%	< 30	98.9%	96.1%	50 - 150	
Clofentezane	0.00	0.265	0.283	0.40	6.2%	< 30	66.4%	70.8%	50 - 150	
Cyfluthrin	0.00	0.734	0.782	2.00	6.4%	< 30	36.7%	39.1%	30 - 150	
Cypermethrin	0.00	1.462	1.525	2.00	4.2%	< 30	73.1%	76.3%	50 - 150	
Daminozide	0.00	0.682	0.648	2.00	5.1%	< 30	34.1%	32.4%	30 - 150	
Diazinon	0.00	0.224	0.230	0.40	2.7%	< 30	56.0%	57.6%	50 - 150	
Dichlorvos	0.00	1.654	1.525	2.00	8.1%	< 30	82.7%	76.3%	50 - 150	
Dimethoate	0.00	0.371	0.349	0.40	6.0%	< 30	92.7%	87.3%	50 - 150	
Ethionphos	0.00	0.255	0.265	0.40	4.3%	< 30	63.8%	66.6%	50 - 150	
Etofenprox	0.00	0.408	0.422	0.80	3.3%	< 30	51.0%	52.8%	50 - 150	
Etoxazole	0.00	0.285	0.289	0.40	1.3%	< 30	71.4%	72.3%	50 - 150	
Fenoxycarb	0.00	0.285	0.294	0.40	2.6%	< 30	71.6%	73.5%	50 - 150	
Fenpyroximate	0.00	0.274	0.273	0.80	0.7%	< 30	34.3%	34.1%	50 - 150	Q
Fipronil	0.00	0.513	0.480	0.80	6.6%	< 30	64.2%	60.0%	50 - 150	
Fonicamid	0.00	0.955	0.940	1.00	5.7%	< 30	99.9%	94.0%	50 - 150	
Fludioxonil	0.00	1.021	1.039	0.80	1.8%	< 30	127.6%	129.9%	50 - 150	
Hexythiazox	0.00	0.778	0.804	1.00	3.2%	< 30	77.8%	80.4%	50 - 150	
Imazalil	0.00	0.332	0.347	0.40	4.3%	< 30	81.8%	85.5%	50 - 150	
Imidacloprid	0.00	0.793	0.779	0.80	1.8%	< 30	99.1%	97.3%	50 - 150	
Kiesoxim-methyl	0.00	0.565	0.595	0.80	5.2%	< 30	70.6%	74.4%	50 - 150	
Malathion	0.06	0.269	0.285	0.40	6.7%	< 30	63.2%	67.6%	50 - 150	
Metolaxyl	0.00	0.322	0.324	0.40	0.7%	< 30	79.9%	80.4%	50 - 150	
Methiocarb	0.00	0.303	0.293	0.40	3.1%	< 30	75.7%	73.3%	50 - 150	
Methomyl	0.00	0.784	0.750	0.80	4.5%	< 30	98.1%	93.8%	50 - 150	
MCK-264	0.00	0.205	0.221	0.40	7.9%	< 30	51.2%	55.4%	50 - 150	
Mydobutani	0.00	0.318	0.321	0.40	0.8%	< 30	78.0%	78.6%	50 - 150	
Naled	0.00	0.759	0.708	1.00	7.0%	< 30	75.9%	70.8%	50 - 150	
Oxamyl	0.00	1.900	1.832	2.00	3.6%	< 30	95.0%	91.6%	50 - 150	
Padobutrazole	0.00	0.582	0.577	0.80	1.0%	< 30	72.8%	72.1%	50 - 150	
Parathion-Methyl	0.00	0.193	0.194	0.40	1.0%	< 30	48.1%	48.6%	30 - 150	
Permethrin	0.00	0.202	0.209	0.40	3.8%	< 30	49.1%	51.0%	50 - 150	Q
Phosmet	0.00	0.303	0.303	0.40	0.1%	< 30	75.8%	75.7%	50 - 150	
Piperonyl butoxide	0.00	1.413	1.535	2.00	8.4%	< 30	70.7%	76.8%	50 - 150	
Prallethrin	0.00	0.242	0.259	0.40	7.1%	< 30	60.4%	64.8%	50 - 150	
Propiconazole	0.00	0.642	0.651	0.80	1.4%	< 30	80.3%	81.4%	50 - 150	
Propoxur	0.00	0.344	0.327	0.40	5.0%	< 30	86.1%	81.8%	50 - 150	
Pyrethrin (Summe)	0.012	0.268	0.295	0.488	10.6%	< 30	52.5%	58.4%	50 - 150	
Pyridaben	0.00	0.272	0.289	0.40	5.8%	< 30	68.1%	72.1%	50 - 150	
Spinosad	0.00	0.273	0.274	0.388	0.3%	< 30	70.4%	70.6%	50 - 150	
Spiromesfen	0.00	0.317	0.320	0.40	1.1%	< 30	79.2%	80.0%	50 - 150	
Spirotetramat	0.00	0.487	0.481	0.40	1.3%	< 30	121.7%	120.2%	50 - 150	
Spiroxamine	0.00	0.655	0.685	0.80	4.3%	< 30	82.0%	85.7%	50 - 150	
Tebuconazole	0.00	0.583	0.622	0.80	6.4%	< 30	72.9%	77.7%	50 - 150	
Thiadoprid	0.00	0.371	0.349	0.40	6.3%	< 30	92.8%	87.2%	50 - 150	
Thiamethoxam	0.00	0.365	0.359	0.40	2.1%	< 30	91.6%	89.7%	50 - 150	
Trifloxystrobin	0.00	0.278	0.280	0.40	0.8%	< 30	69.4%	70.0%	50 - 150	



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2306790					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		296	584	µg/g	50.7	60 - 120	Q6
Isobutane	ND	< 200		396	767	µg/g	51.6	60 - 120	Q6
Butane	ND	< 200		427	782	µg/g	54.6	60 - 120	Q6
2,2-Dimethylpropane	ND	< 200		538	939	µg/g	57.3	60 - 120	Q6
Methanol	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
Ethylene Oxide	ND	< 30		32.7	57.1	µg/g	57.3	60 - 120	Q6
2-Methylbutane	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
Pentane	ND	< 200		1560	1610	µg/g	96.9	60 - 120	
Ethanol	ND	< 200		1540	1600	µg/g	96.3	70 - 130	
Ethyl Ether	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
2,2-Dimethylbutane	ND	< 30		158	173	µg/g	91.3	60 - 120	
Acetone	ND	< 200		1510	1620	µg/g	93.2	60 - 120	
2-Propanol	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Ethyl Formate	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
Acetonitrile	ND	< 100		452	488	µg/g	92.6	60 - 120	
Methyl Acetate	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		146	165	µg/g	88.5	60 - 120	
Dichloromethane	ND	< 60		482	487	µg/g	99.0	60 - 120	
2-Methylpentane	ND	< 30		150	160	µg/g	93.8	60 - 120	
MTBE	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
3-Methylpentane	ND	< 30		150	161	µg/g	93.2	60 - 120	
Hexane	ND	< 30		149	162	µg/g	92.0	60 - 120	
1-Propanol	ND	< 500		1560	1620	µg/g	96.3	70 - 130	
Methylethylketone	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
Ethyl acetate	ND	< 200		1470	1600	µg/g	91.9	60 - 120	
2-Butanol	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
Tetrahydrofuran	ND	< 100		451	483	µg/g	93.4	60 - 120	
Cyclohexane	ND	< 200		1490	1610	µg/g	92.5	60 - 120	
2-methyl-1-propanol	ND	< 500		1500	1630	µg/g	92.0	70 - 130	
Benzene	ND	< 1		4.82	4.98	µg/g	96.8	60 - 120	
Isopropyl Acetate	ND	< 200		1510	1610	µg/g	93.8	60 - 120	
Heptane	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
1-Butanol	ND	< 500		1530	1600	µg/g	95.6	70 - 130	
Propyl Acetate	ND	< 500		1450	1620	µg/g	89.5	70 - 130	
1,4-Dioxane	ND	< 100		429	494	µg/g	86.8	60 - 120	
2-Ethoxyethanol	ND	< 30		164	165	µg/g	99.4	60 - 120	
Methylisobutylketone	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1540	1610	µg/g	95.7	70 - 130	
Ethylene Glycol	ND	< 200		422	488	µg/g	86.9	60 - 120	
Toluene	ND	< 100		437	513	µg/g	85.2	60 - 120	
Isobutyl Acetate	ND	< 500		1470	1600	µg/g	91.9	70 - 130	
1-Pentanol	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
Butyl Acetate	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
Ethylbenzene	ND	< 200		835	967	µg/g	86.3	60 - 120	
m,p-Xylene	ND	< 200		850	994	µg/g	85.5	60 - 120	
o-Xylene	ND	< 200		852	992	µg/g	85.9	60 - 120	
Cumene	ND	< 30		141	171	µg/g	82.5	60 - 120	
Anisole	ND	< 500		1300	1610	µg/g	80.7	70 - 130	
DMSO	ND	< 500		1350	1610	µg/g	83.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		162	172	µg/g	94.2	70 - 130	
Triethylamine	ND	< 500		1520	1620	µg/g	93.8	70 - 130	
N,N-dimethylformamide	ND	< 150		442	499	µg/g	88.6	70 - 130	
N,N-dimethylacetamide	ND	< 150		453	491	µg/g	92.3	70 - 130	
Pyridine	ND	< 50		157	171	µg/g	91.8	70 - 130	
Silicone	ND	< 50		138	160	µg/g	86.3	70 - 130	
1,2-Dichloroethane	ND	< 1		0.884	1	µg/g	86.4	70 - 130	
Chloroform	ND	< 1		0.989	1	µg/g	98.9	70 - 130	
Trichloroethylene	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.01	1	µg/g	101.0	70 - 130	



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QC- Sample Duplicate Sample ID: 23-004824-0001

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-Methylbutane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethanol	863	839	200 µg/g	2.8	< 20	Acceptable	
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
MTBE	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	
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Toluene	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	
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50 µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g - Microgram per gram or ppm



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Report Number: 23-004834/D002.R000
Report Date: 04/27/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/20/23 14:30





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.