

## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

<b>BULK SKU</b>	<b>BATCH #</b>	<b>LOQ: Limit Of Quantitation</b>	
<b>PRODUCT NAME</b>	<b>SERVING SIZE</b>	<b>LOD: Limit Of Detection</b>	
<b>LABORATORY :</b>	<b>OREGON ACCREDITATION: OR100028</b>	1 g = 10 <sup>-3</sup> kg = 10 <sup>3</sup> mg = 10 <sup>6</sup> 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 <sup>[1]</sup>
Cadmium	µg/serving	µg/g	4.1 µg/day <sup>[1]</sup>
Lead	µg/serving	µg/g	6 µg/day <sup>[1]</sup>
Mercury	µg/serving	µg/g	2 µg/day <sup>[1]</sup>
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb <sup>[1]</sup>
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.

\*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.



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



**Report Number:** 23-004824/D006.R000  
**Report Date:** 04/28/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/20/23 14:34

**Customer:** Etz Hayim Holdings  
**Product identity:** CYCL- SLZ.D9.GF5.6PK-FC22X  
**Client/Metric ID:** .  
**Laboratory ID:** 23-004824-0004

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.0316		mg/1g		CBD-Total per Serving Size 0.0316 mg/1g
Δ8-THC per 1g	0.00363		mg/1g		
Δ9-THC per 1g	0.0160		mg/1g		THC-Total per Serving Size 0.0160 mg/1g
(Reported in milligrams per serving)					

**Residual Solvents:**

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	820		

**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:**  
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**Customer:** Etz Hayim Holdings  
 16427 NE Airport Way  
 PORTLAND 97230  
 United States of America (USA)  
**Product identity:** CYCL- SLZ.D9.GF5.6PK-FC22X  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-004824-0004  
**Evidence of Cooling:** No  
**Temp:** 19.7  
**Relinquished by:** client  
**Serving Size #1:** 1 g

### Sample Results

Potency per 1g		Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2306691	Analyze: 4/24/23 10:23:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	< LOQ		mg/1g	0.000967	
CBC-A per 1g	< LOQ		mg/1g	0.000967	
CBC-Total per 1g	< LOQ		mg/1g	0.00182	
CBD per 1g	0.0316		mg/1g	0.000967	
CBD-A per 1g	< LOQ		mg/1g	0.000967	
CBD-Total per 1g	0.0316		mg/1g	0.00182	
CBDV per 1g	< LOQ		mg/1g	0.000967	
CBDV-A per 1g	< LOQ		mg/1g	0.000967	
CBDV-Total per 1g	< LOQ		mg/1g	0.00181	
CBE per 1g	< LOQ		mg/1g	0.000967	
CBG per 1g	< LOQ		mg/1g	0.000967	
CBG-A per 1g	< LOQ		mg/1g	0.000967	
CBG-Total per 1g	< LOQ		mg/1g	0.00181	
CBL per 1g	< LOQ		mg/1g	0.000967	
CBL-A per 1g	< LOQ		mg/1g	0.000967	
CBL-Total per 1g	< LOQ		mg/1g	0.00182	
CBN per 1g	< LOQ		mg/1g	0.000967	
CBT per 1g	< LOQ		mg/1g	0.000967	
Δ8-THCV per 1g	< LOQ		mg/1g	0.000967	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.000967	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.000967	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.00193	
Δ8-THC per 1g	0.00363		mg/1g	0.000967	
Δ9-THC per 1g	0.0160		mg/1g	0.000967	
exo-THC per 1g	< LOQ		mg/1g	0.000967	
THC-A per 1g	< LOQ		mg/1g	0.000967	
THC-Total per 1g	0.0160		mg/1g	0.00182	
THCV per 1g	< LOQ		mg/1g	0.000967	
THCV-A per 1g	< LOQ		mg/1g	0.000967	
THCV-Total per 1g	< LOQ		mg/1g	0.00182	



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)<sup>P</sup> **Units** mg/se **Batch:** 2306691 **Analyze:** 4/24/23 10:23:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1g	0.0512		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) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2306616	04/25/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2306617	04/26/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** **Method:** Residual Solvents by GC/MS<sup>P</sup> **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)	< LOQ	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	820		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) <sup>b</sup>											
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 <sup>‡</sup>	< LOQ	0.50	0.250	pass		Acephate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Acequinocyl <sup>‡</sup>	< LOQ	2.0	1.00	pass		Acetamiprid <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Aldicarb <sup>‡</sup>	< LOQ	0.40	0.200	pass		Azoxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Bifenazate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Bifenthrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Boscalid <sup>‡</sup>	< LOQ	0.40	0.200	pass		Carbaryl <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Carbofuran <sup>‡</sup>	< LOQ	0.20	0.100	pass		Chlorantraniliprole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Chlorfenapyr <sup>‡</sup>	< LOQ	1.0	0.500	pass		Chlorpyrifos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Clofentezine <sup>‡</sup>	< LOQ	0.20	0.100	pass		Cyfluthrin <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Cypermethrin <sup>‡</sup>	< LOQ	1.0	0.500	pass		Daminozide <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Diazinon <sup>‡</sup>	< LOQ	0.20	0.100	pass		Dichlorvos <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Dimethoate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Ethoprophos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Etofenprox <sup>‡</sup>	< LOQ	0.40	0.200	pass		Etoxazole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Fenoxycarb <sup>‡</sup>	< LOQ	0.20	0.100	pass		Fenpyroximate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Fipronil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Flonicamid <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Fludioxonil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Hexythiazox <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Imazalil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Imidacloprid <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Kresoxim-methyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		Malathion <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Metalaxyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Methiocarb <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Methomyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		MGK-264 <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Myclobutanil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Naled <sup>‡</sup>	< LOQ	0.50	0.250	pass	
Oxamyl <sup>‡</sup>	< LOQ	1.0	0.500	pass		Paclobotrazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Parathion-Methyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Permethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Phosmet <sup>‡</sup>	< LOQ	0.20	0.100	pass		Piperonyl butoxide <sup>‡</sup>	< LOQ	2.0	1.00	pass	
Prallethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass		Propiconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Propoxur <sup>‡</sup>	< LOQ	0.20	0.100	pass		Pyrethrin I (total) <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Pyridaben <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spinosad <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiromesifen <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spirotetramat <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiroxamine <sup>‡</sup>	< LOQ	0.40	0.200	pass		Tebuconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Thiacloprid <sup>‡</sup>	< LOQ	0.20	0.100	pass		Thiamethoxam <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Trifloxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes		
Arsenic <sup>‡</sup>	< LOQ	0.200	mg/kg	0.00366	2306810	04/27/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.00366	2306810	04/27/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.00366	2306810	04/27/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00183	2306810	04/27/23 AOAC 2013.06 (mod.) <sup>b</sup>	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

Approved Signatory

Derrick Tanner  
General Manager



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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2306691

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0009	0.001	%	98.2	80.0	- 120	Acceptable	
CBDV	2	0.0009	0.001	%	100	80.0	- 120	Acceptable	
CBE	2	0.0010	0.001	%	102	80.0	- 120	Acceptable	
CBDA	1	0.0009	0.001	%	92.7	90.0	- 110	Acceptable	
CBGA	1	0.0007	0.001	%	94.8	80.0	- 120	Acceptable	
CBG	1	0.0009	0.001	%	100	80.0	- 120	Acceptable	
CBD	1	0.0008	0.001	%	99.1	90.0	- 110	Acceptable	
THCV	2	0.0007	0.001	%	104	80.0	- 120	Acceptable	
d8THCV	2	0.0008	0.001	%	101	80.0	- 120	Acceptable	
THCVA	2	0.0009	0.001	%	96.6	80.0	- 120	Acceptable	
CBN	1	0.0008	0.001	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.0009	0.001	%	100	80.0	- 120	Acceptable	
d9THC	1	0.0010	0.001	%	107	90.0	- 110	Acceptable	
d8THC	1	0.0010	0.001	%	104	90.0	- 110	Acceptable	
9S-d10THC	1	0.0010	0.001	%	103	80.0	- 120	Acceptable	
CBL	2	0.0010	0.001	%	103	80.0	- 120	Acceptable	
9R-d10THC	1	0.0009	0.001	%	95.3	80.0	- 120	Acceptable	
CBC	2	0.0009	0.001	%	101	80.0	- 120	Acceptable	
THCA	1	0.0010	0.001	%	91.9	90.0	- 110	Acceptable	
CBCA	2	0.0009	0.001	%	94.4	80.0	- 120	Acceptable	
CBLA	2	0.0009	0.001	%	95.8	80.0	- 120	Acceptable	
CBT	2	0.0010	0.001	%	97.9	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9S-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable	
9R-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBT	<LOQ	0.0001	%	< 0.0001	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 ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2306691						
Sample Duplicate		Sample ID: 22-015393-0007						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.0062	0.0061	0.0001	%	1.12	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**

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**Received:** 04/20/23 14:34

Revision: 3 Document ID: 3120  
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2306747			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	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
Acetaminocyl	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		0.396	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
Carbofuran	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
Clofentazine	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
Diazinon	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
Ethoprophos	0.000	< 0.100		0.404	0.400	101.0	60.0	120
Etofenprox	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
Kresoxim-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
Metaxalyl	0.000	< 0.100		0.396	0.400	99.1	60.0	120
Methiocarb	0.000	< 0.100		0.396	0.400	99.0	60.0	120
Methomyl	0.000	< 0.200		0.857	0.800	107.2	60.0	120
MGK-264	0.000	< 0.100		0.400	0.400	99.9	50.0	150
Myclobutanil	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
Oxamyl	0.000	< 0.500		2.091	2.000	104.6	60.0	120
Paclbutrazole	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		0.393	0.400	98.2	50.0	150
Phosmet	0.000	< 0.100		0.393	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		0.496	0.488	101.7	60.0	120
Pyridaben	0.000	< 0.100		0.398	0.400	99.6	50.0	150
Spirosad	0.000	< 0.100		0.398	0.388	102.5	50.0	150
Spiromesifen	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
Thiacloprid	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



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



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Revision: 3 Document ID: 3120  
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2306747				
Matrix Spike/Matrix Spike Duplicate Recoveries						Sample ID: 23-004564-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.656	0.697	1.000	5.9%	< 30	65.6%	69.7%	50 - 150		
Acephate	0.002	0.753	0.711	0.800	5.8%	< 30	93.8%	88.6%	50 - 150		
Acequinocyl	0.000	1.474	1.601	4.000	8.2%	< 30	36.9%	40.0%	50 - 150	Q	
Acetamiprid	0.000	0.362	0.353	0.400	2.5%	< 30	90.6%	88.4%	50 - 150		
Aldicarb	0.000	0.774	0.729	0.800	6.0%	< 30	96.7%	91.1%	50 - 150		
Azoxystrobin	0.000	0.311	0.301	0.400	3.6%	< 30	77.9%	75.1%	50 - 150		
Bifenazate	0.000	0.304	0.292	0.400	4.0%	< 30	76.0%	72.9%	50 - 150		
Bifenthrin	0.000	0.169	0.172	0.400	2.2%	< 30	42.1%	43.1%	50 - 150	Q	
Boscalid	0.000	0.577	0.574	0.800	0.6%	< 30	72.2%	71.7%	50 - 150		
Carbaryl	0.000	0.294	0.280	0.400	4.8%	< 30	73.6%	70.1%	50 - 150		
Carbofuran	0.000	0.333	0.319	0.400	4.3%	< 30	83.1%	79.7%	50 - 150		
Chlorantraniliprole	0.000	0.365	0.343	0.400	6.3%	< 30	91.3%	85.8%	50 - 150		
Chlorfenapyr	0.000	1.522	1.697	2.000	10.9%	< 30	76.1%	84.9%	50 - 150		
Chlorpyrifos	0.000	0.396	0.384	0.400	2.9%	< 30	98.9%	96.1%	50 - 150		
Clofentazine	0.000	0.266	0.283	0.400	6.2%	< 30	66.4%	70.6%	50 - 150		
Cyfluthrin	0.000	0.734	0.782	2.000	6.4%	< 30	36.7%	39.1%	30 - 150		
Cypermethrin	0.000	1.462	1.526	2.000	4.2%	< 30	73.1%	76.3%	50 - 150		
Daminozide	0.000	0.682	0.648	2.000	5.1%	< 30	34.1%	32.4%	30 - 150		
Diazinon	0.000	0.224	0.230	0.400	2.7%	< 30	56.0%	57.6%	50 - 150		
Dichlorvos	0.000	1.654	1.526	2.000	8.1%	< 30	82.7%	76.3%	50 - 150		
Dimethoate	0.000	0.371	0.349	0.400	6.0%	< 30	92.7%	87.3%	50 - 150		
Ethoprophos	0.000	0.255	0.266	0.400	4.3%	< 30	63.8%	66.6%	50 - 150		
Etofenprox	0.000	0.408	0.422	0.800	3.3%	< 30	51.0%	52.8%	50 - 150		
Etoxazole	0.000	0.285	0.289	0.400	1.3%	< 30	71.4%	72.3%	50 - 150		
Fenoxycarb	0.000	0.286	0.294	0.400	2.6%	< 30	71.6%	73.5%	50 - 150		
Fenpyroximate	0.000	0.274	0.273	0.800	0.7%	< 30	34.3%	34.1%	50 - 150	Q	
Fipronil	0.000	0.513	0.480	0.800	6.6%	< 30	64.2%	60.0%	50 - 150		
Flonicamid	0.000	0.995	0.940	1.000	5.7%	< 30	99.5%	94.0%	50 - 150		
Fludioxonil	0.000	1.021	1.039	0.800	1.8%	< 30	127.6%	129.9%	50 - 150		
Hexythiazox	0.000	0.778	0.804	1.000	3.2%	< 30	77.8%	80.4%	50 - 150		
Imazalil	0.005	0.332	0.347	0.400	4.3%	< 30	81.8%	85.5%	50 - 150		
Imidacloprid	0.000	0.793	0.779	0.800	1.8%	< 30	99.1%	97.3%	50 - 150		
Kresoxim-methyl	0.000	0.565	0.595	0.800	5.2%	< 30	70.6%	74.4%	50 - 150		
Malathion	0.016	0.269	0.286	0.400	6.7%	< 30	63.2%	67.6%	50 - 150		
Metaxalyl	0.003	0.322	0.324	0.400	0.7%	< 30	79.9%	80.4%	50 - 150		
Methiocarb	0.000	0.303	0.293	0.400	3.1%	< 30	75.7%	73.3%	50 - 150		
Methomyl	0.000	0.784	0.750	0.800	4.5%	< 30	98.1%	93.8%	50 - 150		
MGK-264	0.000	0.205	0.221	0.400	7.9%	< 30	51.2%	55.4%	50 - 150		
Myclobutanil	0.006	0.318	0.321	0.400	0.8%	< 30	78.0%	78.6%	50 - 150		
Naled	0.000	0.759	0.708	1.000	7.0%	< 30	75.9%	70.8%	50 - 150		
Oxamyl	0.000	1.900	1.832	2.000	3.6%	< 30	95.0%	91.6%	50 - 150		
Pacllobutrazole	0.000	0.582	0.577	0.800	1.0%	< 30	72.8%	72.1%	50 - 150		
Parathion-Methyl	0.000	0.193	0.194	0.400	1.0%	< 30	48.1%	48.6%	30 - 150		
Permethrin	0.005	0.202	0.209	0.400	3.8%	< 30	49.1%	51.0%	50 - 150	Q	
Phosmet	0.000	0.303	0.303	0.400	0.1%	< 30	75.8%	75.7%	50 - 150		
Piperonyl butoxide	0.000	1.413	1.536	2.000	8.4%	< 30	70.7%	76.8%	50 - 150		
Prallethrin	0.000	0.242	0.259	0.400	7.1%	< 30	60.4%	64.8%	50 - 150		
Propiconazole	0.000	0.642	0.651	0.800	1.4%	< 30	80.3%	81.4%	50 - 150		
Propoxur	0.000	0.344	0.327	0.400	5.0%	< 30	86.1%	81.8%	50 - 150		
Pyrethrin (Summe)	0.012	0.268	0.296	0.488	10.6%	< 30	52.5%	58.4%	50 - 150		
Pyridaben	0.000	0.272	0.289	0.400	5.8%	< 30	68.1%	72.1%	50 - 150		
Spirosad	0.000	0.273	0.274	0.388	0.3%	< 30	70.4%	70.6%	50 - 150		
Spiromesifen	0.000	0.317	0.320	0.400	1.1%	< 30	79.2%	80.0%	50 - 150		
Spirotetramat	0.000	0.487	0.481	0.400	1.3%	< 30	121.7%	120.2%	50 - 150		
Spiroxamine	0.000	0.656	0.685	0.800	4.3%	< 30	82.0%	85.7%	50 - 150		
Tebuconazole	0.000	0.583	0.622	0.800	6.4%	< 30	72.9%	77.7%	50 - 150		
Thiacloprid	0.000	0.371	0.349	0.400	6.3%	< 30	92.8%	87.2%	50 - 150		
Thiamethoxam	0.000	0.366	0.359	0.400	2.1%	< 30	91.6%	89.7%	50 - 150		
Trifloxystrobin	0.000	0.278	0.280	0.400	0.8%	< 30	69.4%	70.0%	50 - 150		



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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

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	486	µg/g	86.8	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	
Sulfolane	ND	< 50		138	160	µg/g	86.3	70 - 130	
1,2-Dichloroethane	ND	< 1		0.864	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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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

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	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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:** 23-004824/D006.R000  
**Report Date:** 04/28/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/20/23 14:34





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.