



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



**Report Number:** 22-000884/D005.R000  
**Report Date:** 02/01/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/25/22 10:49

**Customer:** Nutra Pure Extraction, LLC  
**Product identity:** CBDPure 600 (2 Units)  
**Client/Metric ID:** Batch: 52302  
**Laboratory ID:** 22-000884-0002

### Summary

**Potency:**

Analyte per 60ml	Result	Limits	Units	Status	
CBC per 60ml†	26.7		mg/60ml		CBD-Total (%) 1.16 %
CBD per 60ml	635		mg/60ml		
CBD-A per 60ml	6.24		mg/60ml		
CBDV per 60ml†	2.01		mg/60ml		CBD-Total per 60ml 640 mg/60ml
CBE per 60ml†	5.96		mg/60ml		
CBG per 60ml†	5.02		mg/60ml		
CBT per 60ml†	12.6		mg/60ml		THC-Total (%) 0.0491 %
Δ9-THC per 60ml	27.1		mg/60ml		

**Residual Solvents:**

*All analytes passing and less than LOQ.*

**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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**Customer:** Nutra Pure Extraction, LLC

**Product identity:** CBDPure 600 (2 Units)

**Client/Metric ID:** Batch: 52302

**Sample Date:**

**Laboratory ID:** 22-000884-0002

**Evidence of Cooling:** No

**Temp:** 15.8 °C

**Relinquished by:** ups

**Serving Size #1:** 55.2 g

**Density:** 0.9200 g/ml

### Sample Results

Potency per 60ml **Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2200744 Analyze: 1/27/22 4:03:00 AM**

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 60ml†	26.7		mg/60ml	1.79	X
CBC-A per 60ml†	< LOQ		mg/60ml	1.79	X
CBC-Total per 60ml†	26.7		mg/60ml	3.36	X, X
CBD per 60ml	635		mg/60ml	17.9	X
CBD-A per 60ml	6.24		mg/60ml	1.79	X
CBD-Total per 60ml	640		mg/60ml	19.5	X, X
CBDV per 60ml†	2.01		mg/60ml	1.79	X
CBDV-A per 60ml†	< LOQ		mg/60ml	1.79	X
CBDV-Total per 60ml†	< LOQ		mg/60ml	3.34	X, X
CBE per 60ml†	5.96		mg/60ml	1.79	X
CBG per 60ml†	5.02		mg/60ml	1.79	X
CBG-A per 60ml†	< LOQ		mg/60ml	1.79	X
CBG-Total per 60ml†	5.02		mg/60ml	3.34	X, X
CBL per 60ml†	< LOQ		mg/60ml	1.79	X
CBL-A per 60ml†	< LOQ		mg/60ml	1.79	X
CBL-Total per 60ml†	< LOQ		mg/60ml	3.36	X, X
CBN per 60ml	< LOQ		mg/60ml	1.79	X
CBT per 60ml†	12.6		mg/60ml	1.79	X
Δ8-THCV per 60ml†	< LOQ		mg/60ml	1.79	X
Δ8-THC per 60ml†	< LOQ		mg/60ml	1.79	X
Δ9-THC per 60ml	27.1		mg/60ml	1.79	X
exo-THC per 60ml†	< LOQ		mg/60ml	1.79	X
THC-A per 60ml	< LOQ		mg/60ml	1.79	X
THC-Total per 60ml	27.1		mg/60ml	3.36	X, X
THCV per 60ml†	< LOQ		mg/60ml	1.79	X
THCV-A per 60ml†	< LOQ		mg/60ml	1.79	X
THCV-Total per 60ml†	< LOQ		mg/60ml	3.36	X, X
Total Cannabinoids per 60ml	720		mg/60ml		X



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2200677	01/28/22	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2200675	01/28/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2200675	01/28/22	AOAC 991.14 (Petrifilm)		X
Staphylococcus aureus	< LOQ		cfu/g	10	2200679	01/27/22	AOAC 2003.07		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2200676	01/29/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2200676	01/29/22	AOAC 2014.05 (RAPID)		X
E. coli, O157:H7 (by PCR)	Negative		/25g		2200683	01/27/22	AOAC 2019.03		X
Listeria spp.	Negative		/25g		2200682	01/27/22	AOAC 2019.10		X
Salmonella spp. by PCR	Negative		/25g		2200681	01/27/22	AOAC 2020.02		X

**Solvents** Method Residual Solvents by GC/MS Units µg/g Batch 2200784 Analyze 01/28/22 11:56 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass	X	2-Butanol	< LOQ	5000	200	pass	X
2-Ethoxyethanol	< LOQ	160	30.0	pass	X	2-Methylbutane (Isopentane)	< LOQ		200		X
2-Methylpentane	< LOQ		30.0		X	2-Propanol (IPA)	< LOQ	5000	200	pass	X
2,2-Dimethylbutane	< LOQ		30.0		X	2,2-Dimethylpropane (neo-pentane)	< LOQ		200		X
2,3-Dimethylbutane	< LOQ		30.0		X	3-Methylpentane	< LOQ		30.0		X
Acetone	< LOQ	5000	200	pass	X	Acetonitrile	< LOQ	410	100	pass	X
Benzene	< LOQ	2.00	1.00	pass	X	Butanes (sum)	< LOQ	5000	400	pass	X
Cyclohexane	< LOQ	3880	200	pass	X	Ethyl acetate	< LOQ	5000	200	pass	X
Ethyl benzene	< LOQ		200		X	Ethyl ether	< LOQ	5000	200	pass	X
Ethylene glycol	< LOQ	620	200	pass	X	Ethylene oxide	< LOQ	50.0	20.0	pass	X
Hexanes (sum)	< LOQ	290	150	pass	X	Isopropyl acetate	< LOQ	5000	200	pass	X
Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	X	m,p-Xylene	< LOQ		200		X
Methanol	< LOQ	3000	200	pass	X	Methylene chloride	< LOQ	600	60.0	pass	X
Methylpropane (Isobutane)	< LOQ		200		X	n-Butane	< LOQ		200		X
n-Heptane	< LOQ	5000	200	pass	X	n-Hexane	< LOQ		30.0		X
n-Pentane	< LOQ		200		X	o-Xylene	< LOQ		200		X
Pentanes (sum)	< LOQ	5000	600	pass	X	Propane	< LOQ	5000	200	pass	X
Tetrahydrofuran	< LOQ	720	100	pass	X	Toluene	< LOQ	890	100	pass	X
Total Xylenes	< LOQ		400		X	Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	X



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2200753 Analyze 01/27/22 04:13 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass	X	Acephate	< LOQ	0.40	0.250	pass	X
Acequinocyl	< LOQ	2.0	1.00	pass	X	Acetamiprid	< LOQ	0.20	0.100	pass	X
Aldicarb	< LOQ	0.40	0.200	pass	X	Azoxystrobin	< LOQ	0.20	0.100	pass	X
Bifenazate	< LOQ	0.20	0.100	pass	X	Bifenthrin	< LOQ	0.20	0.100	pass	X
Boscalid	< LOQ	0.40	0.200	pass	X	Carbaryl	< LOQ	0.20	0.100	pass	X
Carbofuran	< LOQ	0.20	0.100	pass	X	Chlorantraniliprole	< LOQ	0.20	0.100	pass	X
Chlorfenapyr	< LOQ	1.0	0.500	pass	X	Chlorpyrifos	< LOQ	0.20	0.100	pass	X
Clofentezine	< LOQ	0.20	0.100	pass	X	Cyfluthrin	< LOQ	1.0	0.500	pass	X
Cypermethrin	< LOQ	1.0	0.500	pass	X	Daminozide	< LOQ	1.0	0.500	pass	X
Diazinon	< LOQ	0.20	0.100	pass	X	Dichlorvos	< LOQ	1.0	0.500	pass	X
Dimethoate	< LOQ	0.20	0.100	pass	X	Ethoprophos	< LOQ	0.20	0.100	pass	X
Etofenprox	< LOQ	0.40	0.200	pass	X	Etoxazole	< LOQ	0.20	0.100	pass	X
Fenoxycarb	< LOQ	0.20	0.100	pass	X	Fenpyroximate	< LOQ	0.40	0.200	pass	X
Fipronil	< LOQ	0.40	0.200	pass	X	Fonicamid	< LOQ	1.0	0.400	pass	X
Fludioxonil	< LOQ	0.40	0.200	pass	X	Hexythiazox	< LOQ	1.0	0.400	pass	X
Imazalil	< LOQ	0.20	0.100	pass	X	Imidacloprid	< LOQ	0.40	0.200	pass	X
Kresoxim-methyl	< LOQ	0.40	0.200	pass	X	Malathion	< LOQ	0.20	0.100	pass	X
Metalaxyl	< LOQ	0.20	0.100	pass	X	Methiocarb	< LOQ	0.20	0.100	pass	X
Methomyl	< LOQ	0.40	0.200	pass	X	MGK-264	< LOQ	0.20	0.100	pass	X
Myclobutanil	< LOQ	0.20	0.100	pass	X	Naled	< LOQ	0.50	0.250	pass	X
Oxamyl	< LOQ	1.0	0.500	pass	X	Paclobutrazole	< LOQ	0.40	0.200	pass	X
Parathion-Methyl	< LOQ	0.20	0.200	pass	X	Permethrin	< LOQ	0.20	0.100	pass	X
Phosmet	< LOQ	0.20	0.100	pass	X	Piperonyl butoxide	< LOQ	2.0	1.00	pass	X
Prallethrin	< LOQ	0.20	0.200	pass	X	Propiconazole	< LOQ	0.40	0.200	pass	X
Propoxur	< LOQ	0.20	0.100	pass	X	Pyrethrin I (total)	< LOQ	1.0	0.500	pass	X
Pyridaben	< LOQ	0.20	0.100	pass	X	Spinosad	< LOQ	0.20	0.100	pass	X
Spiromesifen	< LOQ	0.20	0.100	pass	X	Spirotetramat	< LOQ	0.20	0.100	pass	X
Spiroxamine	< LOQ	0.40	0.200	pass	X	Tebuconazole	< LOQ	0.40	0.200	pass	X
Thiacloprid	< LOQ	0.20	0.100	pass	X	Thiamethoxam	< LOQ	0.20	0.100	pass	X
Trifloxystrobin	< LOQ	0.20	0.100	pass	X						

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0410	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0410	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0410	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0205	2200837	01/31/22	AOAC 2013.06 (mod.)	pass	X	



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These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

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

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

† = Analyte not NELAP accredited.

**Units of Measure**

/25g = Per 25g

cfu/g = Colony forming units per gram

g = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

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

mg/60ml = Milligram per 60ml

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



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**Cannabis Chain of Custody Record**

ORELAP ID: OR100028

Company: Nutra Pure LLC		Analysis Requested											Tinctures/Softgels Density: .92			Purchase Order Number:		
Contact: Luis Monge		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: MICRO PROFILE X	Reportable Units: Tinctures: mg/60ml Softgels: mg/1 softgel			Project Name:	
Address: 800 NE Tenney Rd, Suite 110-326, Vancouver, WA 98685														Each softgel is .5 ml			□ Report Instructions:	
Email: Luis@Speedwinds.com														Matrix	Weight	Serving size for edibles	□ Send to State - METRC	
Phone: 208-869-8687 Fax: 503-296-7359																	□ Email Final Results:	
Processor's License:														Batch		□ Fax Final Results		
Field ID	Date/Time Collected	Comments/Metric ID		□ Cash/Check/CC/Net 30														
CBDPure 300 (2 Units)		X	X	X						X	X	Tincture	~60 g	1 ml	Batch: 52301, Micro Profile X			
CBDPure 600 (2 Units)		X	X	X						X	X	Tincture	~60 g	1 ml	Batch 52302, Micro Profile X			
CBDPure 1000 (2 Units)		X	X	X						X	X	Tincture	~60 g	1 ml	Batch 52303, Micro Profile X			
CBDPure 750 (2 Units)		X	X	X						X	X	Softgel	~.5 g	1 Softgel	Batch 52304, Micro Profile X			

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	Terry Montgomery	12/13/21		DS	1/25/22	10:49	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: 15.8°C
							Shipped Via: UPS
							Evidence of cooling: <u>SNP</u>

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: 2.00 Control#: CF023  
Effective 04/29/2019 Revised 04/29/2019

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www.columbiainfoodlab.com

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Received: 01/25/22 10:49



Document ID: 3177 Revision: 2  
Effective: 06/25/2021  
Page 1 of 1

Job Number: \_\_\_\_\_ Search Name: \_\_\_\_\_

Package/Cooler opened on (if different than received date/time) Date: 1/29/22 Time: 10:49

Received By (Initials): DS Logged in by (Initials): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1) Were custody seals on outside of the package/cooler? YES NO NA  
If YES, how many and where? \_\_\_\_\_

Does date match collection date on COC? \_\_\_\_\_ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: \_\_\_\_\_

Tracking Number (written in or copy of shipping label): 1Z 739 FE0 01 4509 9676

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: \_\_\_\_\_

6) Was temperature upon receipt 4°C+/- 2°C (if appropriate)? YES NO NA

If not, client contacted: \_\_\_\_\_  
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: \_\_\_\_\_

Explain any discrepancies: 15.8°C



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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: 2200744**

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00932	0.01	%	93.2	85.0 - 115	Acceptable	
CBDV	0.0112	0.01	%	112	85.0 - 115	Acceptable	
CBE	0.00944	0.01	%	94.4	85.0 - 115	Acceptable	
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBGA	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
CBG	0.00916	0.01	%	91.6	85.0 - 115	Acceptable	
CBD	0.00955	0.01	%	95.5	85.0 - 115	Acceptable	
THCV	0.00900	0.01	%	90.0	85.0 - 115	Acceptable	
d8THCV	0.00926	0.01	%	92.6	85.0 - 115	Acceptable	
THCVA	0.00939	0.01	%	93.9	85.0 - 115	Acceptable	
CBN	0.00985	0.01	%	98.5	85.0 - 115	Acceptable	
exo-THC	0.00881	0.01	%	88.1	85.0 - 115	Acceptable	
d9THC	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
d8THC	0.00894	0.01	%	89.4	85.0 - 115	Acceptable	
CBL	0.00869	0.01	%	86.9	85.0 - 115	Acceptable	
CBC	0.00928	0.01	%	92.8	85.0 - 115	Acceptable	
THCA	0.00947	0.01	%	94.7	85.0 - 115	Acceptable	
CBCA	0.00988	0.01	%	98.8	85.0 - 115	Acceptable	
CBLA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBT	0.0106	0.01	%	106	85.0 - 115	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	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
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 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: 2200744								
Sample Duplicate								
Sample ID: 21-012857-0005								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0348	0.0349	0.003	%	0.526	< 20	Acceptable	
CBE	0.149	0.149	0.003	%	0.428	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.174	0.175	0.003	%	0.785	< 20	Acceptable	
CBD	5.75	5.80	0.003	%	0.828	< 20	Acceptable	
THCV	0.0111	0.0108	0.003	%	2.73	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0312	0.0314	0.003	%	0.638	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.154	0.153	0.003	%	0.432	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	0.0132	0.0126	0.003	%	5.20	< 20	Acceptable	
CBC	0.240	0.241	0.003	%	0.300	< 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	0.106	0.107	0.003	%	1.17	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**

% - Percent



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

**Report Number:** 22-000884/D005.R000  
**Report Date:** 02/01/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/25/22 10:49



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		Laboratory Control Sample			Batch ID: 2200753	
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acetate	0.008	< 0.250		1.023	1.000	102.3	75.8 - 126	
Acequinocyl	0.000	< 1.000		3.794	4.000	94.8	68.7 - 123	
Acetamiprid	0.000	< 0.100		0.389	0.400	97.3	82.4 - 119	
Aldicarb	0.000	< 0.200		0.797	0.800	99.7	69.8 - 130	
Abamectin	0.000	< 0.250		1.022	1.000	102.2	71.4 - 130	
Azoxystrobin	0.000	< 0.100		0.369	0.400	92.4	74.6 - 125	
Bifenazate	0.079	< 0.100		0.447	0.400	111.9	89.3 - 166	
Bifenthrin	0.000	< 0.100		0.393	0.400	98.2	70.4 - 124	
Boscalid	0.000	< 0.200		0.826	0.800	103.2	74.4 - 131	
Carbaryl	0.000	< 0.100		0.395	0.400	98.7	80.9 - 122	
Carbofuran	0.000	< 0.100		0.397	0.400	99.2	71.7 - 133	
Chlorantraniliprol	0.000	< 0.100		0.410	0.400	102.4	82.3 - 120	
Chlorfenapyr	0.045	< 0.500		1.917	2.000	95.9	71.8 - 133	
Chlorpyrifos	0.000	< 0.100		0.369	0.400	92.2	75.6 - 119	
Clofentazine	0.000	< 0.100		0.373	0.400	93.2	76.4 - 122	
Cyfluthrin	0.000	< 0.500		2.313	2.000	115.6	70.3 - 131	
Cypermethrin	0.000	< 0.500		1.958	2.000	97.9	75.4 - 126	
Daminozide	0.165	< 0.500		2.583	2.000	129.1	75.9 - 141	
Diazinon	0.000	< 0.100		0.380	0.400	95.1	72.3 - 134	
Dichlorvos	0.000	< 0.500		1.922	2.000	96.1	82.5 - 113	
Dimethoat	0.000	< 0.100		0.385	0.400	96.3	82.7 - 118	
Ethoprophos	0.000	< 0.100		0.387	0.400	96.8	74.9 - 126	
Etofenprox	0.000	< 0.200		0.762	0.800	95.2	72.8 - 135	
Etoxazol	0.000	< 0.100		0.401	0.400	100.3	72.1 - 132	
Fenoxycarb	0.000	< 0.100		0.392	0.400	98.0	81.7 - 119	
Fenpyroximat	0.000	< 0.200		0.774	0.800	96.8	80.2 - 122	
Fipronil	0.000	< 0.200		0.815	0.800	101.9	84.4 - 128	
Flonicamid	0.000	< 0.250		1.089	1.000	108.9	72.7 - 125	
Fludioxonil	0.000	< 0.200		0.791	0.800	98.9	72.2 - 134	
Hexythiazox	0.000	< 0.250		0.968	1.000	96.8	70.6 - 131	
Imazalil	0.000	< 0.100		0.413	0.400	103.2	74.7 - 132	
Imidacloprid	0.000	< 0.200		0.803	0.800	100.4	81.4 - 121	
Kresoxim-Methyl	0.000	< 0.200		0.789	0.800	98.6	77.8 - 125	
Malathion	0.000	< 0.100		0.398	0.400	99.6	78.3 - 129	
Metaxyl	0.000	< 0.100		0.381	0.400	95.2	81.1 - 121	
Methiocarb	0.000	< 0.100		0.394	0.400	98.6	82.2 - 120	
Methomyl	0.000	< 0.200		0.826	0.800	103.3	67.8 - 126	
MGK 264	0.000	< 0.100		0.389	0.400	97.1	77.6 - 124	
Myclobutanil	0.000	< 0.100		0.370	0.400	92.5	75.5 - 127	
Naled	0.000	< 0.250		0.954	1.000	95.4	75.7 - 124	
Oxamyl	0.000	< 0.500		1.980	2.000	99.0	72.6 - 124	
Paclobutrazol	0.000	< 0.200		0.749	0.800	93.6	78.4 - 122	
Parathion Methyl	0.000	< 0.200		0.778	0.800	97.3	80.2 - 128	
Permethrin	0.000	< 0.100		0.388	0.400	96.9	68.7 - 128	
Phosmet	0.000	< 0.100		0.404	0.400	101.0	79.6 - 123	
Piperonyl butoxide	0.000	< 0.500		2.083	2.000	104.2	71.2 - 132	
Prallethrin	0.000	< 0.100		0.365	0.400	91.3	78.5 - 123	
Propiconazole	0.000	< 0.200		0.778	0.800	97.2	81.7 - 121	
Propoxur	0.000	< 0.100		0.391	0.400	97.7	73.2 - 128	
Pyrethrins	0.000	< 0.100		0.406	0.413	98.3	72.6 - 135	
Pyridaben	0.000	< 0.100		0.380	0.400	95.0	72.0 - 127	
Spinosad	0.000	< 0.100		0.455	0.388	117.2	73.6 - 137	
Spiromesifen	0.000	< 0.100		0.458	0.400	114.5	75.9 - 127	
Spirotetramat	0.000	< 0.100		0.391	0.400	97.7	80.3 - 123	
Spiroxamine	0.000	< 0.200		0.755	0.800	94.3	76.4 - 121	
Tebuconazol	0.000	< 0.200		0.768	0.800	96.0	80.9 - 122	
Thiacloprid	0.000	< 0.100		0.387	0.400	96.7	83.1 - 121	
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.7	72.6 - 128	
Trifloxystrobin	0.000	< 0.100		0.376	0.400	94.1	77.4 - 127	



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Purchase Order:  
Received: 01/25/22 10:49

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: 2200753			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-000813-0024								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.002	1.020	0.943	1.000	7.8%	< 30	101.8%	94.1%	50 - 150	
Acequinocyl	0.000	3.960	4.522	4.000	13.3%	< 30	99.0%	113.1%	50 - 150	
Acetamiprid	0.000	0.252	0.229	0.400	9.6%	< 30	63.0%	57.3%	50 - 150	
Aldicarb	0.000	0.889	0.741	0.800	18.1%	< 30	111.1%	92.6%	50 - 150	
Abamectin	0.000	0.416	0.433	1.000	4.1%	< 30	41.6%	43.3%	50 - 150	Q
Azoxystrobin	0.000	0.372	0.354	0.400	5.1%	< 30	93.1%	88.5%	50 - 150	
Bifenazate	0.073	0.542	0.495	0.400	10.5%	< 30	117.2%	105.6%	50 - 150	
Bifenthrin	0.000	0.359	0.325	0.400	9.9%	< 30	89.7%	81.2%	50 - 150	
Boscalid	0.000	0.868	0.758	0.800	13.6%	< 30	108.6%	94.7%	50 - 150	
Carbaryl	0.000	0.368	0.364	0.400	1.0%	< 30	91.9%	91.0%	50 - 150	
Carbofuran	0.000	0.385	0.358	0.400	7.2%	< 30	96.3%	89.6%	50 - 150	
Chlorantraniliprol	0.000	0.328	0.309	0.400	5.9%	< 30	81.9%	77.2%	50 - 150	
Chlorfenapyr	0.000	1.618	1.269	2.000	24.2%	< 30	80.9%	63.4%	50 - 150	
Chlorpyrifos	0.000	0.360	0.346	0.400	3.8%	< 30	89.9%	86.5%	50 - 150	
Clofentezine	0.000	0.364	0.335	0.400	8.2%	< 30	90.9%	83.7%	50 - 150	
Cyfluthrin	0.000	2.093	1.910	2.000	9.1%	< 30	104.7%	95.5%	30 - 150	
Cypermethrin	0.000	2.073	1.940	2.000	6.6%	< 30	103.6%	97.0%	50 - 150	
Daminozide	0.155	2.357	2.389	2.000	1.4%	< 30	110.1%	111.7%	30 - 150	
Diazinon	0.000	0.375	0.343	0.400	9.1%	< 30	93.8%	85.6%	50 - 150	
Dichlorvos	0.000	1.846	1.807	2.000	2.1%	< 30	92.3%	90.4%	50 - 150	
Dimethoat	0.000	0.306	0.293	0.400	4.5%	< 30	76.5%	73.1%	50 - 150	
Ethoprophos	0.000	0.374	0.340	0.400	9.7%	< 30	93.6%	84.9%	50 - 150	
Etofenprox	0.000	0.775	0.731	0.800	5.8%	< 30	96.9%	91.4%	50 - 150	
Etoxazol	0.000	0.402	0.369	0.400	8.6%	< 30	100.6%	92.3%	50 - 150	
Fenoxycarb	0.000	0.385	0.360	0.400	6.7%	< 30	96.2%	89.9%	50 - 150	
Fenpyroximat	0.000	0.656	0.601	0.800	8.7%	< 30	82.0%	75.2%	50 - 150	
Fipronil	0.000	0.797	0.729	0.800	8.9%	< 30	99.6%	91.2%	50 - 150	
Fonicamid	0.000	1.161	1.175	1.000	1.2%	< 30	116.1%	117.5%	50 - 150	
Fludioxonil	0.000	0.817	0.727	0.800	11.7%	< 30	102.1%	90.8%	50 - 150	
Hexythiazox	0.000	1.011	0.915	1.000	10.0%	< 30	101.1%	91.5%	50 - 150	
Imazalil	0.000	0.433	0.417	0.400	3.8%	< 30	108.2%	104.2%	50 - 150	
Imidacloprid	0.000	0.798	0.774	0.800	3.1%	< 30	99.8%	96.8%	50 - 150	
Kresoxim-Methyl	0.000	0.747	0.732	0.800	2.0%	< 30	93.4%	91.5%	50 - 150	
Malathion	0.000	0.392	0.357	0.400	9.4%	< 30	98.0%	89.2%	50 - 150	
Metaxyl	0.000	0.395	0.361	0.400	9.2%	< 30	98.8%	90.1%	50 - 150	
Methiocarb	0.000	0.396	0.355	0.400	10.8%	< 30	98.9%	88.8%	50 - 150	
Methomyl	0.000	0.891	0.858	0.800	3.9%	< 30	111.4%	107.2%	50 - 150	
MGK 264	0.000	0.365	0.333	0.400	9.3%	< 30	91.4%	83.3%	50 - 150	
Myclobutanil	0.000	0.363	0.364	0.400	0.4%	< 30	90.7%	91.1%	50 - 150	
Naled	0.000	0.921	0.866	1.000	6.2%	< 30	92.1%	86.6%	50 - 150	
Oxamyl	0.000	2.306	2.134	2.000	7.8%	< 30	115.3%	106.7%	50 - 150	
Paclobutrazol	0.000	0.728	0.718	0.800	1.4%	< 30	91.0%	89.8%	50 - 150	
Parathion Methyl	0.000	0.989	0.771	0.800	24.7%	< 30	123.6%	96.4%	30 - 150	
Permethrin	0.000	0.248	0.204	0.400	19.5%	< 30	62.1%	51.1%	50 - 150	
Phosmet	0.000	0.432	0.374	0.400	14.5%	< 30	108.1%	93.4%	50 - 150	
Piperonyl butoxide	0.000	2.083	1.985	2.000	4.8%	< 30	104.2%	99.3%	50 - 150	
Prallethrin	0.000	0.378	0.358	0.400	5.5%	< 30	94.4%	89.4%	50 - 150	
Propiconazole	0.000	0.763	0.690	0.800	10.0%	< 30	95.3%	86.2%	50 - 150	
Propoxur	0.000	0.384	0.349	0.400	9.4%	< 30	95.9%	87.3%	50 - 150	
Pyrethrins	0.000	0.357	0.336	0.413	6.2%	< 30	86.6%	81.3%	50 - 150	
Pyridaben	0.000	0.419	0.376	0.400	10.7%	< 30	104.8%	94.1%	50 - 150	
Spinosad	0.000	0.475	0.448	0.388	5.8%	< 30	122.3%	115.4%	50 - 150	
Spiromesifen	0.000	0.349	0.337	0.400	3.5%	< 30	87.4%	84.4%	50 - 150	
Spirotetramat	0.000	0.394	0.374	0.400	5.3%	< 30	98.6%	93.5%	50 - 150	
Spiroxamine	0.000	0.769	0.711	0.800	7.8%	< 30	96.1%	88.8%	50 - 150	
Tebuconazol	0.000	0.781	0.735	0.800	6.0%	< 30	97.6%	91.9%	50 - 150	
Thiacloprid	0.000	0.391	0.368	0.400	6.1%	< 30	97.8%	92.1%	50 - 150	
Thiamethoxam	0.000	0.424	0.440	0.400	3.7%	< 30	105.9%	109.9%	50 - 150	
Trifloxystrobin	0.000	0.380	0.356	0.400	6.6%	< 30	95.1%	89.0%	50 - 150	



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Revision: Document ID:  
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2200784				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		432	401	µg/g	107.7	70	130
Isobutane	ND	< 200		480	498	µg/g	96.4	70	130
Butane	ND	< 200		488	493	µg/g	99.0	70	130
2,2-Dimethylpropane	ND	< 200		739	628	µg/g	117.7	70	130
Methanol	ND	< 200		1750	1610	µg/g	108.7	70	130
Ethylene Oxide	ND	< 30		39.3	37.2	µg/g	105.6	70	130
2-Methylbutane	ND	< 200		1720	1630	µg/g	105.5	70	130
Pentane	ND	< 200		1770	1610	µg/g	109.9	70	130
Ethanol	ND	< 200		1710	1630	µg/g	104.9	70	130
Ethyl Ether	ND	< 200		1660	1610	µg/g	103.1	70	130
2,2-Dimethylbutane	ND	< 30		195	165	µg/g	115.2	70	130
Acetone	ND	< 200		1790	1610	µg/g	111.2	70	130
2-Propanol	ND	< 200		1780	1610	µg/g	110.6	70	130
Ethyl Formate	ND	< 500		1200	1620	µg/g	74.1	70	130
Acetonitrile	ND	< 100		606	498	µg/g	121.7	70	130
Methyl Acetate	ND	< 500		1750	1810	µg/g	96.7	70	130
2,3-Dimethylbutane	ND	< 30		194	162	µg/g	119.8	70	130
Dichloromethane	ND	< 60		531	498	µg/g	106.6	70	130
2-Methylpentane	ND	< 30		206	167	µg/g	123.4	70	130
MTBE	ND	< 500		1630	1610	µg/g	101.2	70	130
3-Methylpentane	ND	< 30		189	179	µg/g	105.6	70	130
Hexane	ND	< 30		185	164	µg/g	112.8	70	130
1-Propanol	ND	< 500		1970	1620	µg/g	121.6	70	130
Methylethylketone	ND	< 500		1820	1770	µg/g	102.8	70	130
Ethyl acetate	ND	< 200		1720	1620	µg/g	106.2	70	130
2-Butanol	ND	< 200		1770	1600	µg/g	110.6	70	130
Tetrahydrofuran	ND	< 100		546	500	µg/g	109.2	70	130
Cyclohexane	ND	< 200		1690	1610	µg/g	105.0	70	130
2-methyl-1-propanol	ND	< 500		1810	1610	µg/g	112.4	70	130
Benzene	ND	< 1		5.97	5.63	µg/g	106.2	70	130
Isopropyl Acetate	ND	< 200		1790	1610	µg/g	111.2	70	130
Heptane	ND	< 200		1860	1610	µg/g	115.5	70	130
1-Butanol	ND	< 500		1740	1620	µg/g	107.4	70	130
Propyl Acetate	ND	< 500		2140	1620	µg/g	132.1	70	130
1,4-Dioxane	ND	< 100		569	502	µg/g	113.3	70	130
2-Ethoxyethanol	ND	< 30		213	164	µg/g	129.9	70	130
Methylisobutylketone	ND	< 500		2060	1620	µg/g	127.2	70	130
3-Methyl-1-butanol	ND	< 500		2040	1620	µg/g	125.9	70	130
Ethylene Glycol	ND	< 200		634	502	µg/g	126.3	70	130
Toluene	ND	< 200		534	488	µg/g	109.4	70	130
Isobutyl Acetate	ND	< 500		1860	1700	µg/g	109.4	70	130
1-Pentanol	ND	< 500		1890	1630	µg/g	116.0	70	130
Butyl Acetate	ND	< 500		1970	1660	µg/g	118.7	70	130
Ethylbenzene	ND	< 200		1070	965	µg/g	110.9	70	130
m,p-Xylene	ND	< 200		1120	990	µg/g	113.1	70	130
o-Xylene	ND	< 200		1090	971	µg/g	112.3	70	130
Cumene	ND	< 30		195	179	µg/g	108.9	70	130
Anisole	ND	< 500		1880	1650	µg/g	113.9	70	130
DMSO	ND	< 500		1680	1630	µg/g	103.1	70	130
1,2-dimethoxyethane	ND	< 50		232	183	µg/g	126.8	70	130
Triethylamine	ND	< 500		1740	1620	µg/g	107.4	70	130
N,N-dimethylformamide	ND	< 150		620	495	µg/g	125.3	70	130
N,N-dimethylacetamide	ND	< 150		694	502	µg/g	138.2	70	130
Pyridine	ND	< 50		198	186	µg/g	106.5	70	130
1,2-Dichloroethane	ND	< 1		1.28	1	µg/g	128.0	70	130
Chloroform	ND	< 1		1.22	1	µg/g	122.0	70	130
Trichloroethylene	ND	< 1		1.21	1	µg/g	121.0	70	130
Ethylene Oxide	ND	< 1		1.19	1	µg/g	119.0	70	130
Dichloromethane	ND	< 1		1.05	1	µg/g	105.0	70	130
Benzene	ND	< 1		1.18	1	µg/g	118.0	70	130



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**Purchase Order:**  
**Received:** 01/25/22 10:49

Revision: Document ID:  
 Legacy ID: Effective:

QC - Sample Duplicate Sample ID: 22-000875-0001

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	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	
Methylcyclohexane	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	200	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	
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	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Benzene	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

**Units of Measure:**

µg/g - Microgram per gram or ppm



12423 NE Whitaker Way  
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 503-254-1794



**Report Number:** 22-000884/D005.R000  
**Report Date:** 02/01/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/25/22 10:49

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.