



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

Customer: NW Natural Goods
Product identity: BEV - GF 024179-1

Client/Metric ID: .
Laboratory ID: 24-007086-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	18.2		mg/355ml		CBD-Total per Serving Size 18.2 mg/355ml
CBG per 355ml	11.4		mg/355ml		
					Delta-9-THC-Total per <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

Customer: NW Natural Goods
Product identity: BEV - GF 024179-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-007086-0001
Evidence of Cooling: No
Temp: 18.2
Relinquished by: client
Serving Size #1: 362.1 g
Density: 1.020 g/ml

Sample Results

Potency per 355ml	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2405033	Analyze: 7/3/24 9:55:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 355ml	< LOQ		mg/355ml	0.360	
CBC-A per 355ml	< LOQ		mg/355ml	0.360	
CBC-Total per 355ml	< LOQ		mg/355ml	0.676	
CBD per 355ml	18.2		mg/355ml	0.360	
CBD-A per 355ml [±]	< LOQ		mg/355ml	0.360	
CBD-Total per 355ml [±]	18.2		mg/355ml	0.676	
CBDV per 355ml	< LOQ		mg/355ml	0.360	
CBDV-A per 355ml	< LOQ		mg/355ml	0.360	
CBDV-Total per 355ml	< LOQ		mg/355ml	0.672	
CBE per 355ml	< LOQ		mg/355ml	0.360	
CBG per 355ml	11.4		mg/355ml	0.360	
CBG-A per 355ml	< LOQ		mg/355ml	0.360	
CBG-Total per 355ml	11.4		mg/355ml	0.672	
CBL per 355ml	< LOQ		mg/355ml	0.360	
CBL-A per 355ml	< LOQ		mg/355ml	0.360	
CBL-Total per 355ml	< LOQ		mg/355ml	0.676	
CBN per 355ml	< LOQ		mg/355ml	0.360	
CBT per 355ml	< LOQ		mg/355ml	0.360	
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.360	
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.360	
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.720	
Δ8-THC per 355ml [±]	< LOQ		mg/355ml	0.360	
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.360	
Δ9-THC per 355ml [±]	< LOQ		mg/355ml	0.360	
Δ9-THC-Total per 355ml	< LOQ		mg/355ml	0.676	
Δ9-THCP per 355ml	< LOQ		mg/355ml	0.360	
Δ9-THCV per 355ml	< LOQ		mg/355ml	0.360	
Δ9-THCV-A per 355ml	< LOQ		mg/355ml	0.360	
Δ9-THCV-Total per 355ml	< LOQ		mg/355ml	0.676	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

Potency per 355ml		Method: J AOAC 2015 V98-6 (mod) ^p		Units mg/se Batch: 2405033		Analyze: 7/3/24 9:55:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes		
exo-THC per 355ml	< LOQ		mg/355ml	0.360			
THC-A per 355ml ^l	< LOQ		mg/355ml	0.360			
Total Cannabinoids per 355ml	29.6		mg/355ml				

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2404920	07/01/24 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2404918	07/01/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2404918	07/01/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2404919	07/02/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2404919	07/02/24 AOAC 2014.05 (RAPID)		

Solvents		Method: Residual Solvents by HS-GC-MS ^p				Units µg/g		Batch 2405040		Analyze 07/03/24 12:17 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
1,4-Dioxane ^l	< LOQ	380	100	pass		2-Butanol ^l	< LOQ	5000	200	pass			
2-Ethoxyethanol ^l	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane) ^l	< LOQ		200				
2-Methylpentane ^l	< LOQ		30.0			2-Propanol (IPA) ^l	< LOQ	5000	200	pass			
2,2-Dimethylbutane ^l	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) ^l	< LOQ		200				
2,3-Dimethylbutane ^l	< LOQ		30.0			3-Methylpentane ^l	< LOQ		30.0				
Acetone ^l	< LOQ	5000	200	pass		Acetonitrile ^l	< LOQ	410	100	pass			
Benzene ^l	< LOQ	2.00	1.00	pass		Butanes (sum) ^l	< LOQ	5000	400	pass			
Cyclohexane ^l	< LOQ	3880	200	pass		Ethyl acetate ^l	< LOQ	5000	200	pass			
Ethyl benzene	< LOQ		200			Ethyl ether ^l	< LOQ	5000	200	pass			
Ethylene glycol ^l	< LOQ	620	200	pass		Ethylene oxide ^l	< LOQ	50.0	20.0	pass			
Hexanes (sum) ^l	< LOQ	290	150	pass		Isopropyl acetate ^l	< LOQ	5000	200	pass			
Isopropylbenzene (Cumene) ^l	< LOQ	70.0	30.0	pass		m,p-Xylene ^l	< LOQ		200				
Methanol ^l	< LOQ	3000	200	pass		Methylene chloride ^l	< LOQ	600	60.0	pass			
Methylpropane (Isobutane) ^l	< LOQ		200			n-Butane ^l	< LOQ		200				
n-Heptane ^l	< LOQ	5000	200	pass		n-Hexane ^l	< LOQ		30.0				
n-Pentane ^l	< LOQ		200			o-Xylene ^l	< LOQ		200				
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass			
Tetrahydrofuran ^l	< LOQ	720	100	pass		Toluene ^l	< LOQ	890	100	pass			
Total Xylenes ^l	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass			

Pesticides		Method: AOAC 2007.01 & EN 15662 (mod)		Units mg/kg		Batch 2405015		Analyze 07/03/24 09:46 AM	
Analyte	Result	Limits	Status	Notes					
Multi-Residue Pesticide Profile	< LOQ for all analytes								



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic ^L	< LOQ	0.200	mg/kg	0.00393	2405086	07/05/24 AOAC 2013.06 (mod.) ^P	pass	
Cadmium ^L	< LOQ	0.200	mg/kg	0.00393	2405086	07/05/24 AOAC 2013.06 (mod.) ^P	pass	
Lead ^L	< LOQ	0.500	mg/kg	0.00393	2405086	07/05/24 AOAC 2013.06 (mod.) ^P	pass	
Mercury ^L	< LOQ	0.100	mg/kg	0.00197	2405086	07/05/24 AOAC 2013.06 (mod.) ^P	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 ^L	< LOQ		µg/kg	5.00	2405031	07/03/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin B2 ^L	< LOQ		µg/kg	5.00	2405031	07/03/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G1 ^L	< LOQ		µg/kg	5.00	2405031	07/03/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G2 ^L	< LOQ		µg/kg	5.00	2405031	07/03/24 AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A ^L	< LOQ	20.0	µg/kg	5.00	2405031	07/03/24 AOAC 2007.01 & EN 15662 (mod)	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		07/08/24 AOAC 2007.01 & EN 15662 (mod) ^P	pass	



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

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 = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/355ml = Milligram per 355ml

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 24-007086/D001.R000
 Report Date: 07/08/2024
 ORELAP#: OR100028
 Purchase Order:
 Received: 06/27/24 11:03

Revision: 4 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2405033

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.00103	0.0010	%	108	80.0 - 120	Acceptable	
CBV	2	0.00103	0.0010	%	107	80.0 - 120	Acceptable	
CB	2	0.00101	0.0010	%	106	80.0 - 120	Acceptable	
CBDA	1	0.0010	0.0009	%	106	90.0 - 110	Acceptable	
CBGA	1	0.0010	0.0009	%	104	80.0 - 120	Acceptable	
CBG	1	0.0009	0.0009	%	104	80.0 - 120	Acceptable	
CB	1	0.00104	0.0010	%	106	90.0 - 110	Acceptable	
THCV	2	0.00110	0.00102	%	108	80.0 - 120	Acceptable	
d8THCV	2	0.00110	0.00103	%	107	80.0 - 120	Acceptable	
THCVA	2	0.00101	0.0009	%	107	80.0 - 120	Acceptable	
CBN	1	0.0010	0.0009	%	106	80.0 - 120	Acceptable	
exo-THC	2	0.0009	0.0008	%	105	80.0 - 120	Acceptable	
d9THC	1	0.0009	0.0010	%	96.8	90.0 - 110	Acceptable	
d8THC	1	0.0010	0.0010	%	105	90.0 - 110	Acceptable	
9Sa10THC	1	0.00101	0.0010	%	106	80.0 - 120	Acceptable	
CB	2	0.00102	0.0010	%	106	80.0 - 120	Acceptable	
9SHHC	3	0.00104	0.0010	%	105	80.0 - 120	Acceptable	
9Ra10THC	1	0.0009	0.00102	%	91.8	80.0 - 120	Acceptable	
CB	2	0.00105	0.0010	%	107	80.0 - 120	Acceptable	
9RHHC	3	0.00105	0.0010	%	105	80.0 - 120	Acceptable	
THCA	1	0.0009	0.0009	%	97.1	90.0 - 110	Acceptable	
CBCA	2	0.00103	0.0010	%	105	80.0 - 120	Acceptable	
CBLA	2	0.00102	0.0010	%	104	80.0 - 120	Acceptable	
d9THCP	2	0.00104	0.0010	%	109	80.0 - 120	Acceptable	
d8THCO	3	0.00102	0.0010	%	105	80.0 - 120	Acceptable	
CB	2	0.00104	0.0010	%	107	80.0 - 120	Acceptable	
d9THCO	3	0.0010	0.0009	%	107	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<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	
CB	<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	
9Sa10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
9SHHC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9Ra10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
9RHHC	<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	
d9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCO	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THCO	<LOQ	0.0001	%	< 0.0001	Acceptable	

Abbreviations

ND - None Detected at or above MR



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03

Revision: 4 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2405033						
Sample Duplicate		Sample ID: 24-0070650001						
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	
CBD4	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.00311	0.00316	0.0001	%	1.50	< 20	Acceptable	
CBD	0.00616	0.00625	0.0001	%	1.56	< 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	
9Sa10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB1	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9SHHC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB2	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9RHHC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB1	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THCO	<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:

% - Percent


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2405040			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec. Limits Notes
Propane	ND	< 200		528	584	µg/g	90.4 60 - 120
Isobutane	ND	< 200		679	767	µg/g	88.5 60 - 120
Butane	ND	< 200		697	782	µg/g	89.1 60 - 120
2,2-Dimethylpropane	ND	< 200		870	939	µg/g	92.7 60 - 120
Methanol	ND	< 200		1700	1600	µg/g	106.3 60 - 120
Ethylene Oxide	ND	< 30		55.2	57.1	µg/g	96.7 60 - 120
2-Methylbutane	ND	< 200		1690	1620	µg/g	104.3 60 - 120
Pertane	ND	< 200		1690	1610	µg/g	105.0 60 - 120
Ethanol	ND	< 200		1690	1600	µg/g	105.6 70 - 130
Ethyl Ether	ND	< 200		1690	1610	µg/g	105.0 60 - 120
2,2-Dimethylbutane	ND	< 30		200	190	µg/g	105.3 60 - 120
Acetone	ND	< 200		1730	1610	µg/g	107.5 60 - 120
2-Propanol	ND	< 200		1720	1610	µg/g	106.8 60 - 120
Ethyl Formate	ND	< 500		1250	1630	µg/g	76.7 70 - 130
Acetonitrile	ND	< 100		507	486	µg/g	104.3 60 - 120
Methyl Acetate	ND	< 500		1350	1610	µg/g	83.9 70 - 130
2,3-Dimethylbutane	ND	< 30		167	163	µg/g	102.5 60 - 120
Dichloromethane	ND	< 60		497	482	µg/g	103.1 60 - 120
2-Methylpentane	ND	< 30		195	178	µg/g	109.6 60 - 120
MTBE	ND	< 500		1370	1610	µg/g	85.1 70 - 130
3-Methylpentane	ND	< 30		514	490	µg/g	104.9 60 - 120
Hexane	ND	< 30		186	175	µg/g	106.3 60 - 120
1-Propanol	ND	< 500		1360	1610	µg/g	84.5 70 - 130
Methylethylketone	ND	< 500		1360	1610	µg/g	84.5 70 - 130
Ethyl acetate	ND	< 200		1680	1600	µg/g	105.0 60 - 120
2-Butanol	ND	< 200		1700	1610	µg/g	105.6 60 - 120
Tetrahydrofuran	ND	< 100		539	504	µg/g	106.9 60 - 120
Cyclohexane	ND	< 200		1690	1620	µg/g	104.3 60 - 120
2-methyl-1-propanol	ND	< 500		1220	1610	µg/g	75.8 70 - 130
Benzene	ND	< 1		5.11	5.08	µg/g	100.6 60 - 120
Isopropyl Acetate	ND	< 200		1690	1610	µg/g	105.0 60 - 120
Heptane	ND	< 200		1690	1610	µg/g	105.0 60 - 120
1-Butanol	ND	< 500		1180	1610	µg/g	73.3 70 - 130
Propyl Acetate	ND	< 500		1220	1610	µg/g	75.8 70 - 130
1,4-Dioxane	ND	< 100		512	488	µg/g	104.9 60 - 120
2-Ethoxyethanol	ND	< 30		172	163	µg/g	105.5 60 - 120
Methylisobutylketone	ND	< 500		1250	1620	µg/g	77.2 70 - 130
3-Methyl-1-butanol	ND	< 500		1220	1610	µg/g	75.8 70 - 130
Ethylene Glycol	ND	< 200		486	488	µg/g	99.6 60 - 120
Toluene	ND	< 100		522	492	µg/g	106.1 60 - 120
Isobutyl Acetate	ND	< 500		1210	1620	µg/g	74.7 70 - 130
1-Pentanol	ND	< 500		1190	1610	µg/g	73.9 70 - 130
Butyl Acetate	ND	< 500		1280	1650	µg/g	77.6 70 - 130
Ethylbenzene	ND	< 200		1040	969	µg/g	107.3 60 - 120
m,p-Xylene	ND	< 200		1060	981	µg/g	108.1 60 - 120
o-Xylene	ND	< 200		1020	966	µg/g	105.6 60 - 120
Cumene	ND	< 30		179	167	µg/g	107.2 60 - 120
Anisole	ND	< 500		1280	1610	µg/g	79.5 70 - 130
DMSO	ND	< 500		1380	1610	µg/g	85.7 70 - 130
1,2-dimethoxyethane	ND	< 50		132	170	µg/g	77.6 70 - 130
Triethylamine	ND	< 500		1200	1620	µg/g	74.1 70 - 130
N,N-dimethylformamide	ND	< 150		377	499	µg/g	75.6 70 - 130
N,N-dimethylacetamide	ND	< 150		357	489	µg/g	73.0 70 - 130
Pyridine	ND	< 50		136	167	µg/g	81.4 70 - 130
Sulfolane	ND	< 50		106	169	µg/g	62.7 70 - 130 Q6
1,2-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0 70 - 130
Chloroform	ND	< 1		1.13	1	µg/g	113.0 70 - 130
Trichloroethylene	ND	< 1		1.2	1	µg/g	120.0 70 - 130
1,1-Dichloroethane	ND	< 1		1.06	1	µg/g	106.0 70 - 130



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



Report Number: 24-007086/D001.R000
 Report Date: 07/08/2024
 ORELAP#: OR100028
 Purchase Order:
 Received: 06/27/24 11:03

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

QC- Sample Duplicate

Sample ID: 24-007023-0001

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	
Pertane	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	
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

Units of Measure:

µg/g- Microgram per gram or ppm



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



Report Number: 24-007086/D001.R000
Report Date: 07/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 06/27/24 11:03





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.