



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



**Report Number:** 24-007384/D001.R001  
**Report Date:** 08/08/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/08/24 13:18

This is an amended version of report# 24-007384/D001.R000.  
Reason: updated sample name

**Customer:** NW Natural Goods  
**Product identity:** HEMP - HB 0112  
**Client/Metric ID:** .  
**Laboratory ID:** 24-007384-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.164		mg/4g		CBD-Total per Serving Size 24.3 mg/4g
CBD per 4g	24.3		mg/4g		
CBDV per 4g	0.131		mg/4g		Delta-9-THC-Total per <LOQ
CBG per 4g	0.636		mg/4g		(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.



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**Customer:** NW Natural Goods  
**Product identity:** HEMP - HB 0112  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-007384-0001  
**Evidence of Cooling:** No  
**Temp:** 22.5 °C  
**Relinquished by:** client  
**Serving Size #1:** 4 g

### Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>		Units mg/se Batch: 2405208		Analyze: 7/10/24 6:08:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.164		mg/4g	0.122		
CBC-A per 4g	< LOQ		mg/4g	0.122		
CBC-Total per 4g	< LOQ		mg/4g	0.229		
CBD per 4g	24.3		mg/4g	0.122		
CBD-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.122		
CBD-Total per 4g <sup>1</sup>	24.3		mg/4g	0.229		
CBDV per 4g	0.131		mg/4g	0.122		
CBDV-A per 4g	< LOQ		mg/4g	0.122		
CBDV-Total per 4g	< LOQ		mg/4g	0.227		
CBE per 4g	< LOQ		mg/4g	0.122		
CBG per 4g	0.636		mg/4g	0.122		
CBG-A per 4g	< LOQ		mg/4g	0.122		
CBG-Total per 4g	0.636		mg/4g	0.227		
CBL per 4g	< LOQ		mg/4g	0.122		
CBL-A per 4g	< LOQ		mg/4g	0.122		
CBL-Total per 4g	< LOQ		mg/4g	0.229		
CBN per 4g	< LOQ		mg/4g	0.122		
CBT per 4g	< LOQ		mg/4g	0.122		
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.122		
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.122		
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.244		
Δ8-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.122		
Δ8-THCV per 4g	< LOQ		mg/4g	0.122		
Δ9-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.122		
Δ9-THC-Total per 4g	< LOQ		mg/4g	0.229		
Δ9-THCP per 4g	< LOQ		mg/4g	0.122		
Δ9-THCV per 4g	< LOQ		mg/4g	0.122		
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.122		
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.229		
exo-THC per 4g	< LOQ		mg/4g	0.122		
THC-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.122		
Total Cannabinoids per 4g	25.2		mg/4g			


**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2405130	07/11/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2405130	07/11/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2405131	07/12/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2405131	07/12/24 AOAC 2014.05 (RAPID)		

**Solvents** Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2405309 Analyze 07/15/24 01:53 PM

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

**Pesticides** Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2405267 Analyze 07/15/24 11:19 AM

Analyte	Result	Limits	Status	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes			



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**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>L</sup>	< LOQ	0.200	mg/kg	0.0155	2405269	07/12/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Cadmium <sup>L</sup>	< LOQ	0.200	mg/kg	0.0155	2405269	07/12/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Lead <sup>L</sup>	< LOQ	0.500	mg/kg	0.0155	2405269	07/12/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Mercury <sup>L</sup>	< LOQ	0.100	mg/kg	0.00775	2405269	07/12/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	20.6		g/100g	0.10	2405252	07/11/24 AOAC 925.10 (mod.)		
Water Activity	0.714		Aw	0.030	2405230	07/11/24 AOAC 978.18		



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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 = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

A<sub>w</sub> = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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Hemp & Cannabis  
Chain of Custody

Northwest-Natural-Goods-1720036096

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1608

Company Details						Testing												
Company: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]						Project Details Turnaround Time: <u>5 Business Days   Req. For Micro Testing   Standard</u> Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Compliance: <u>Compliance</u> Project Name / ID: <u>HEMP - HB 0112-2</u> Pick-Up Details Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted]						M275 - E. coli/Coliform Count (EC) Petri Im	P2320 - Multi-Residue Pesticide Profile (Cannabis)	N3600 - Water Activity & Moisture (as Loss on Drying) Food	H0010 - Potency Cannabis (Basic+Expanded)	H0013 - Cannabis Heavy Metals Profile OR	H0008 - Residual Solvents (Cannabis - Oregon)	M283 - RAPID Yeast and Mold Count (RYM) Petri Im
Receipt Information Prelog Storage: Canna Shelves Sample Condition: Satisfactory																		
#	Sample Name	Material	Amount Provided	Additional Test Requests and Sample Comments	Reporting Unit	Serving Size												
1	HEMP - HB 0112-2	Cannabinoid Edible	20 each	pick up for Monday 7/8	mg/g & mg/-serving	4g	✓	✓	✓	✓	✓	✓						

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	07/03/2024	12:48	Temp., °C	RAT	07/08/2024	12:29	NA	Yes
RAT	07/08/2024	12:56	22.50	det	07/08/2024	13:18	22.50	No

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

P: (503) 254-1794  
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Page 1 of 1  
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Revision: 4 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2405208

Laboratory Control Sample

Analyte	LS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDA	2	0.0313	0.0314	%	99.6	80.0 - 120	Acceptable	
CBV	2	0.0296	0.0317	%	93.3	80.0 - 120	Acceptable	
CB	2	0.0294	0.0314	%	93.7	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.0307	%	98.4	90.0 - 110	Acceptable	
CBGA	1	0.0304	0.0312	%	97.4	80.0 - 120	Acceptable	
CBG	1	0.0337	0.0370	%	91.2	80.0 - 120	Acceptable	
CB	1	0.0345	0.0357	%	96.6	90.0 - 110	Acceptable	
THCV	2	0.0322	0.0335	%	96.1	80.0 - 120	Acceptable	
d8THCV	2	0.0319	0.0339	%	94.2	80.0 - 120	Acceptable	
THCVA	2	0.0305	0.0308	%	98.7	80.0 - 120	Acceptable	
CBN	1	0.0320	0.0339	%	94.4	80.0 - 120	Acceptable	
exo-THC	2	0.0269	0.0274	%	98.0	80.0 - 120	Acceptable	
d9THC	1	0.0331	0.0347	%	95.3	90.0 - 110	Acceptable	
d8THC	1	0.0292	0.0309	%	94.3	90.0 - 110	Acceptable	
9Sa10THC	1	0.0303	0.0324	%	93.5	80.0 - 120	Acceptable	
CB	2	0.0305	0.0318	%	95.9	80.0 - 120	Acceptable	
9SHHC	3	0.0315	0.0322	%	97.8	80.0 - 120	Acceptable	
9Ra10THC	1	0.0272	0.0318	%	85.6	80.0 - 120	Acceptable	
CB	2	0.0300	0.0321	%	93.5	80.0 - 120	Acceptable	
9RHHC	3	0.0315	0.0325	%	96.8	80.0 - 120	Acceptable	
THCA	1	0.0318	0.0313	%	102	90.0 - 110	Acceptable	
CBCA	2	0.0263	0.0323	%	81.2	80.0 - 120	Acceptable	
CBLA	2	0.0295	0.0324	%	90.8	80.0 - 120	Acceptable	
d9THCP	2	0.0298	0.0314	%	95.1	80.0 - 120	Acceptable	
d8THCO	3	0.0313	0.0317	%	98.7	80.0 - 120	Acceptable	
CB	2	0.0286	0.0320	%	89.6	80.0 - 120	Acceptable	
d9THCO	3	0.0285	0.0296	%	96.1	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBV	<LOQ	0.00307	%	< 0.00307	Acceptable	
CB	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBDA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBGA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBG	<LOQ	0.00307	%	< 0.00307	Acceptable	
CB	<LOQ	0.00307	%	< 0.00307	Acceptable	
THCV	<LOQ	0.00307	%	< 0.00307	Acceptable	
d8THCV	<LOQ	0.00307	%	< 0.00307	Acceptable	
THCVA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBN	<LOQ	0.00307	%	< 0.00307	Acceptable	
exo-THC	<LOQ	0.00307	%	< 0.00307	Acceptable	
d9THC	<LOQ	0.00307	%	< 0.00307	Acceptable	
d8THC	<LOQ	0.00307	%	< 0.00307	Acceptable	
9Sa10THC	<LOQ	0.00307	%	< 0.00307	Acceptable	
CB	<LOQ	0.00307	%	< 0.00307	Acceptable	
9SHHC	<LOQ	0.00307	%	< 0.00307	Acceptable	
9Ra10THC	<LOQ	0.00307	%	< 0.00307	Acceptable	
CB	<LOQ	0.00307	%	< 0.00307	Acceptable	
9RHHC	<LOQ	0.00307	%	< 0.00307	Acceptable	
THCA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBCA	<LOQ	0.00307	%	< 0.00307	Acceptable	
CBLA	<LOQ	0.00307	%	< 0.00307	Acceptable	
d9THCP	<LOQ	0.00307	%	< 0.00307	Acceptable	
d8THCO	<LOQ	0.00307	%	< 0.00307	Acceptable	
CB	<LOQ	0.00307	%	< 0.00307	Acceptable	
d9THCO	<LOQ	0.00307	%	< 0.00307	Acceptable	

Abbreviations

ND - None Detected at or above MR



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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2405208						
Sample Duplicate		Sample ID: 24-0073500001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDAA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBG	0.0111	0.0109	0.00312	%	1.95	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THC	0.266	0.263	0.00312	%	1.30	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9SHHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CB	0.00473	0.00467	0.00312	%	1.37	< 20	Acceptable	
9RHHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBI	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00312	%	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: 2405309			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		535	584	µg/g	91.6 60 - 120
Isobutane	ND	< 200		679	767	µg/g	88.5 60 - 120
Butane	ND	< 200		685	782	µg/g	87.6 60 - 120
2,2-Dimethylpropane	ND	< 200		853	939	µg/g	90.8 60 - 120
Methanol	ND	< 200		1450	1600	µg/g	90.6 60 - 120
Ethylene Oxide	ND	< 30		528	57.1	µg/g	92.5 60 - 120
2-Methylbutane	ND	< 200		1410	1620	µg/g	87.0 60 - 120
Pentane	ND	< 200		1400	1610	µg/g	87.0 60 - 120
Ethanol	ND	< 200		1440	1600	µg/g	90.0 70 - 130
Ethyl Ether	ND	< 200		1410	1610	µg/g	87.6 60 - 120
2,2-Dimethylbutane	ND	< 30		162	190	µg/g	85.3 60 - 120
Acetone	ND	< 200		1440	1610	µg/g	89.4 60 - 120
2-Propanol	ND	< 200		1430	1610	µg/g	88.8 60 - 120
Ethyl Formate	ND	< 500		1370	1630	µg/g	84.0 70 - 130
Acetonitrile	ND	< 100		427	486	µg/g	87.9 60 - 120
Methyl Acetate	ND	< 500		1450	1610	µg/g	90.1 70 - 130
2,3-Dimethylbutane	ND	< 30		138	163	µg/g	84.7 60 - 120
Dichloromethane	ND	< 60		401	482	µg/g	83.2 60 - 120
2-Methylpentane	ND	< 30		144	178	µg/g	80.9 60 - 120
MTBE	ND	< 500		1430	1610	µg/g	88.8 70 - 130
3-Methylpentane	ND	< 30		417	490	µg/g	85.1 60 - 120
Hexane	ND	< 30		149	175	µg/g	85.1 60 - 120
1-Propanol	ND	< 500		1390	1610	µg/g	86.3 70 - 130
Methylethylketone	ND	< 500		1430	1610	µg/g	88.8 70 - 130
Ethyl acetate	ND	< 200		1380	1600	µg/g	86.3 60 - 120
2-Butanol	ND	< 200		1380	1610	µg/g	85.7 60 - 120
Tetrahydrofuran	ND	< 100		407	504	µg/g	80.8 60 - 120
Cyclohexane	ND	< 200		1330	1620	µg/g	82.1 60 - 120
2-methyl-1-propanol	ND	< 500		1250	1610	µg/g	77.6 70 - 130
Benzene	ND	< 1		3.96	5.08	µg/g	78.0 60 - 120
Isopropyl Acetate	ND	< 200		1350	1610	µg/g	83.9 60 - 120
Heptane	ND	< 200		1340	1610	µg/g	83.2 60 - 120
1-Butanol	ND	< 500		1230	1610	µg/g	76.4 70 - 130
Propyl Acetate	ND	< 500		1330	1610	µg/g	82.6 70 - 130
1,4-Dioxane	ND	< 100		382	488	µg/g	78.3 60 - 120
2-Ethoxyethanol	ND	< 30		135	163	µg/g	82.8 60 - 120
Methylisobutylketone	ND	< 500		1290	1620	µg/g	79.6 70 - 130
3-Methyl-1-butanol	ND	< 500		1160	1610	µg/g	72.0 70 - 130
Ethylene Glycol	ND	< 200		410	488	µg/g	84.0 60 - 120
Toluene	ND	< 100		391	492	µg/g	79.5 60 - 120
Isobutyl Acetate	ND	< 500		1280	1620	µg/g	79.0 70 - 130
1-Pentanol	ND	< 500		1180	1610	µg/g	73.3 70 - 130
Butyl Acetate	ND	< 500		1280	1650	µg/g	77.6 70 - 130
Ethylbenzene	ND	< 200		761	969	µg/g	78.5 60 - 120
m,p-Xylene	ND	< 200		768	981	µg/g	78.3 60 - 120
o-Xylene	ND	< 200		729	966	µg/g	75.5 60 - 120
Cumene	ND	< 30		117	167	µg/g	70.1 60 - 120
Anisole	ND	< 500		1030	1610	µg/g	64.0 70 - 130 Q6
DMSO	ND	< 500		1260	1610	µg/g	78.3 70 - 130
1,2-dimethoxyethane	ND	< 50		158	170	µg/g	92.9 70 - 130
Triethylamine	ND	< 500		1350	1620	µg/g	83.3 70 - 130
N,N-dimethylformamide	ND	< 150		415	499	µg/g	83.2 70 - 130
N,N-dimethylacetamide	ND	< 150		340	489	µg/g	69.5 70 - 130 Q6
Pyridine	ND	< 50		139	167	µg/g	83.2 70 - 130
Sulfolane	ND	< 50		103	169	µg/g	60.9 70 - 130 Q6
1,2-Dichloroethane	ND	< 1		0.823	1	µg/g	82.3 70 - 130
Chloroform	ND	< 1		0.785	1	µg/g	78.5 70 - 130
Trichloroethylene	ND	< 1		0.839	1	µg/g	83.9 70 - 130
1,1-Dichloroethane	ND	< 1		0.849	1	µg/g	84.9 70 - 130



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

QC- Sample Duplicate

Sample ID: 24-007384-0001

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:** 24-007384/D001.R001  
**Report Date:** 08/08/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/08/24 13:18





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.