



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



Report Number: 24-009391/D001.R000
Report Date: 09/03/2024
ORELAP#: OR100028
Purchase Order:
Received: 08/26/24 11:43

Customer: NW Natural Goods
Product identity: HEMP - EB 0121
Client/Metric ID: .
Laboratory ID: 24-009391-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.183		mg/4g		CBD-Total per Serving Size 24.3 mg/4g
CBD per 4g	24.3		mg/4g		
CBG per 4g	0.592		mg/4g		Delta-9-THC-Total per <LOQ
CBN per 4g	5.00		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 - EB 0121
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-009391-0001
Evidence of Cooling: No
Temp: 25 °C
Relinquished by: BR
Serving Size #1: 4 g

Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se Batch: 2406569		Analyze: 8/27/24 6:14:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.183		mg/4g	0.131		
CBC-A per 4g	< LOQ		mg/4g	0.131		
CBC-Total per 4g	< LOQ		mg/4g	0.247		
CBD per 4g	24.3		mg/4g	0.131		
CBD-A per 4g ¹	< LOQ		mg/4g	0.131		
CBD-Total per 4g ¹	24.3		mg/4g	0.247		
CBDV per 4g	< LOQ		mg/4g	0.131		
CBDV-A per 4g	< LOQ		mg/4g	0.131		
CBDV-Total per 4g	< LOQ		mg/4g	0.245		
CBE per 4g	< LOQ		mg/4g	0.131		
CBG per 4g	0.592		mg/4g	0.131		
CBG-A per 4g	< LOQ		mg/4g	0.131		
CBG-Total per 4g	0.592		mg/4g	0.245		
CBL per 4g	< LOQ		mg/4g	0.131		
CBL-A per 4g	< LOQ		mg/4g	0.131		
CBL-Total per 4g	< LOQ		mg/4g	0.247		
CBN per 4g	5.00		mg/4g	0.131		
CBT per 4g	< LOQ		mg/4g	0.131		
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.131		
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.131		
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.263		
Δ8-THC per 4g ¹	< LOQ		mg/4g	0.131		
Δ8-THCV per 4g	< LOQ		mg/4g	0.131		
Δ9-THC per 4g ¹	< LOQ		mg/4g	0.131		
Δ9-THC-Total per 4g	< LOQ		mg/4g	0.247		
Δ9-THCP per 4g	< LOQ		mg/4g	0.131		
Δ9-THCV per 4g	< LOQ		mg/4g	0.131		
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.131		
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.247		
exo-THC per 4g	< LOQ		mg/4g	0.131		
THC-A per 4g ¹	< LOQ		mg/4g	0.131		
Total Cannabinoids per 4g	30.1		mg/4g			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2406506	08/29/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2406506	08/29/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2406507	08/30/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2406507	08/30/24 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS^b Units µg/g Batch 2406577 Analyze 08/28/24 12:45 PM

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

Pesticides Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2406663 Analyze 08/30/24 01:18 PM

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 ^L	< LOQ	0.200	mg/kg	0.0166	2406619	08/29/24 AOAC 2013.06 (mod.) ^P	pass	
Cadmium ^L	< LOQ	0.200	mg/kg	0.0166	2406619	08/29/24 AOAC 2013.06 (mod.) ^P	pass	
Lead ^L	< LOQ	0.500	mg/kg	0.0166	2406619	08/29/24 AOAC 2013.06 (mod.) ^P	pass	
Mercury ^L	< LOQ	0.100	mg/kg	0.00828	2406619	08/29/24 AOAC 2013.06 (mod.) ^P	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	20.3		g/100g	0.10	2406593	08/28/24 AOAC 925.10 (mod.)		Q6
Water Activity	0.726		Aw	0.030	2406521	08/27/24 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_w = Water Activity

% wt = µg/g divided by 10,000

Glossary of Qualifiers

Q6: Quality control outside QC limits. Data acceptable based on remaining QC.

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis
 Chain of Custody

Northwest-Natural-Goods-1724424334

Company Details					Testing											
Company: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]					Project Details Turnaround Time: <u>5 Business Days</u> Req. For Micro Testing <u>Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Project Name / ID: <u>HEMP - EB 021</u> Cannabis Type (select if applicable): <u>Industrial</u> Pick-Up Details Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted]					H0013 - Cannabis Heavy Metals Pro le CR	M075 - E coli/Coliform Count (EO) Petri Im	P2320 - Multi-Residue Pesticide Pro le (Cannabis)	H0010 - Potency Cannabis (Basic+Expanded)	N3600 - Water Activity & Moisture (as Loss on Drying) Food	M263 - RAPID Yeast and Mold Count (RYM) Petri Im	H0008 - Residual Solvents (Cannabis - Oregon)
Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>																
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size											
1	HEMP - EB 021	Cannabinoid Edible	20 each	mg/g & mg/serving	4g	✓	✓	✓	✓	✓	✓					

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>KRISTEN JOHNSON</i>	<i>08/23/2024</i>	<i>07:45</i>	<i>Temp., °C</i>	<i>BR</i>	<i>08/26/2024</i>	<i>10:20</i>	<i>25</i>	<i>No</i>
<i>BR</i>	<i>08/26/2024</i>	<i>10:55</i>	<i>17.3</i>	<i>jmk</i>	<i>08/26/2024</i>	<i>11:43</i>	<i>25</i>	<i>No</i>

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

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Received: 08/26/24 11:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2406569**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0304	0.0320	%	95.0	80.0	- 120	Acceptable		
CBDV	2	0.0326	0.0347	%	93.8	80.0	- 120	Acceptable		
CBE	2	0.0305	0.0331	%	92.3	80.0	- 120	Acceptable		
CBDA	1	0.0288	0.0302	%	95.5	90.0	- 110	Acceptable		
CBGA	1	0.0290	0.0301	%	96.6	80.0	- 120	Acceptable		
CBG	1	0.0326	0.0346	%	94.4	80.0	- 120	Acceptable		
CBD	1	0.0330	0.0354	%	93.1	90.0	- 110	Acceptable		
THCV	2	0.0334	0.0356	%	93.9	80.0	- 120	Acceptable		
d8THCV	2	0.0318	0.0351	%	90.8	80.0	- 120	Acceptable		
THCVA	2	0.0304	0.0318	%	95.6	80.0	- 120	Acceptable		
CBN	1	0.0314	0.0336	%	93.4	80.0	- 120	Acceptable		
exo-THC	2	0.0268	0.0300	%	89.4	80.0	- 120	Acceptable		
d9THC	1	0.0324	0.0359	%	90.3	90.0	- 110	Acceptable		
d8THC	1	0.0227	0.0245	%	92.4	90.0	- 110	Acceptable		
9S-d10THC	1	0.0290	0.0316	%	91.9	80.0	- 120	Acceptable		
CBL	2	0.0306	0.0346	%	88.5	80.0	- 120	Acceptable		
9R-d10THC	1	0.0279	0.0310	%	90.0	80.0	- 120	Acceptable		
CBC	2	0.0289	0.0320	%	90.4	80.0	- 120	Acceptable		
THCA	1	0.0302	0.0308	%	98.3	90.0	- 110	Acceptable		
CBCA	2	0.0290	0.0324	%	89.6	80.0	- 120	Acceptable		
CBLA	2	0.0293	0.0316	%	92.7	80.0	- 120	Acceptable		
d9THCP	2	0.0285	0.0327	%	87.4	80.0	- 120	Acceptable		
CBT	2	0.0283	0.0346	%	81.7	80.0	- 120	Acceptable		

Method Blank							
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBDV	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBE	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBDA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBGA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBG	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBD	<LOQ	0.00320	%	< 0.00320	Acceptable		
THCV	<LOQ	0.00320	%	< 0.00320	Acceptable		
d8THCV	<LOQ	0.00320	%	< 0.00320	Acceptable		
THCVA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBN	<LOQ	0.00320	%	< 0.00320	Acceptable		
exo-THC	<LOQ	0.00320	%	< 0.00320	Acceptable		
d9THC	<LOQ	0.00320	%	< 0.00320	Acceptable		
d8THC	<LOQ	0.00320	%	< 0.00320	Acceptable		
9S-d10THC	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBL	<LOQ	0.00320	%	< 0.00320	Acceptable		
9R-d10THC	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBC	<LOQ	0.00320	%	< 0.00320	Acceptable		
THCA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBCA	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBLA	<LOQ	0.00320	%	< 0.00320	Acceptable		
d9THCP	<LOQ	0.00320	%	< 0.00320	Acceptable		
CBT	<LOQ	0.00320	%	< 0.00320	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: 4 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

AOAC 2015 V98-6		Batch ID: 2406569						
Sample Duplicate		Sample ID: 24-009292-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBG	0.0145	0.0150	0.00315	%	3.05	< 20	Acceptable	
CBD	0.602	0.612	0.00315	%	1.69	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBN	0.123	0.125	0.00315	%	1.59	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBC	0.00452	0.00463	0.00315	%	2.29	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00315	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00315	%	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: 2406577			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		639	585	µg/g	109.2 60 - 120
Isobutane	ND	< 200		815	770	µg/g	105.8 60 - 120
Butane	ND	< 200		855	769	µg/g	111.2 60 - 120
2,2-Dimethylpropane	ND	< 200		1110	956	µg/g	116.1 60 - 120
Methanol	ND	< 200		1740	1630	µg/g	106.7 60 - 120
Ethylene Oxide	ND	< 30		62.9	57.7	µg/g	109.0 60 - 120
2-Methylbutane	ND	< 200		1690	1620	µg/g	104.3 60 - 120
Pentane	ND	< 200		1680	1620	µg/g	103.7 60 - 120
Ethanol	ND	< 200		1780	1620	µg/g	109.9 70 - 130
Ethyl Ether	ND	< 200		1690	1620	µg/g	104.3 60 - 120
2,2-Dimethylbutane	ND	< 30		198	179	µg/g	110.6 60 - 120
Acetone	ND	< 200		1740	1620	µg/g	107.4 60 - 120
2-Propanol	ND	< 200		1720	1620	µg/g	106.2 60 - 120
Ethyl Formate	ND	< 500		1540	1610	µg/g	95.7 70 - 130
Acetonitrile	ND	< 100		533	502	µg/g	106.2 60 - 120
Methyl Acetate	ND	< 500		1730	1610	µg/g	107.5 70 - 130
2,3-Dimethylbutane	ND	< 30		187	180	µg/g	103.9 60 - 120
Dichloromethane	ND	< 60		559	533	µg/g	104.9 60 - 120
2-Methylpentane	ND	< 30		211	181	µg/g	116.6 60 - 120
MTBE	ND	< 500		1770	1600	µg/g	110.6 70 - 130
3-Methylpentane	ND	< 30		187	177	µg/g	105.6 60 - 120
Hexane	ND	< 30		188	182	µg/g	103.3 60 - 120
1-Propanol	ND	< 500		1820	1610	µg/g	113.0 70 - 130
Methylethylketone	ND	< 500		1760	1600	µg/g	110.0 70 - 130
Ethyl acetate	ND	< 200		1670	1620	µg/g	103.1 60 - 120
2-Butanol	ND	< 200		1670	1630	µg/g	102.5 60 - 120
Tetrahydrofuran	ND	< 100		507	499	µg/g	101.6 60 - 120
Cyclohexane	ND	< 200		1630	1610	µg/g	101.2 60 - 120
2-methyl-1-propanol	ND	< 500		1730	1600	µg/g	108.1 70 - 130
Benzene	ND	< 1		5.31	5.01	µg/g	106.0 60 - 120
Isopropyl Acetate	ND	< 200		1680	1620	µg/g	103.7 60 - 120
Heptane	ND	< 200		1650	1610	µg/g	102.5 60 - 120
1-Butanol	ND	< 500		1740	1600	µg/g	108.8 70 - 130
Propyl Acetate	ND	< 500		1660	1600	µg/g	103.8 70 - 130
1,4-Dioxane	ND	< 100		497	493	µg/g	100.8 60 - 120
2-Ethoxyethanol	ND	< 30		174	182	µg/g	95.6 60 - 120
Methylisobutylketone	ND	< 500		1640	1610	µg/g	101.9 70 - 130
3-Methyl-1-butanol	ND	< 500		1700	1600	µg/g	106.3 70 - 130
Ethylene Glycol	ND	< 200		465	501	µg/g	92.8 60 - 120
Toluene	ND	< 100		488	501	µg/g	97.4 60 - 120
Isobutyl Acetate	ND	< 500		1760	1600	µg/g	110.0 70 - 130
1-Pentanol	ND	< 500		1920	1600	µg/g	120.0 70 - 130
Butyl Acetate	ND	< 500		1740	1600	µg/g	108.8 70 - 130
Ethylbenzene	ND	< 200		963	981	µg/g	98.2 60 - 120
m,p-Xylene	ND	< 200		1000	1000	µg/g	100.0 60 - 120
o-Xylene	ND	< 200		896	981	µg/g	91.3 60 - 120
Cumene	ND	< 30		159	177	µg/g	89.8 60 - 120
Anisole	ND	< 500		1510	1610	µg/g	93.8 70 - 130
DMSO	ND	< 500		1510	1600	µg/g	94.4 70 - 130
1,2-dimethoxyethane	ND	< 50		166	161	µg/g	103.1 70 - 130
Triethylamine	ND	< 500		1730	1600	µg/g	108.1 70 - 130
N,N-dimethylformamide	ND	< 150		554	484	µg/g	114.5 70 - 130
N,N-dimethylacetamide	ND	< 150		474	497	µg/g	95.4 70 - 130
Pyridine	ND	< 50		195	162	µg/g	120.4 70 - 130
Sulfolane	ND	< 50		147	166	µg/g	88.6 70 - 130
1,2-Dichloroethane	ND	< 1		0.92	1	µg/g	92.0 70 - 130
Chloroform	ND	< 1		0.928	1	µg/g	92.8 70 - 130
Trichloroethylene	ND	< 1		0.843	1	µg/g	84.3 70 - 130
1,1-Dichloroethane	ND	< 1		0.974	1	µg/g	97.4 70 - 130



QC - Sample Duplicate

Sample ID: 24-009376-0001

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	9160	9470	200	µg/g	3.3	< 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	
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



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Portland, OR 97230
503-254-1794



Report Number: 24-009391/D001.R000
Report Date: 09/03/2024
ORELAP#: OR100028
Purchase Order:
Received: 08/26/24 11:43





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.