



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



Report Number: 24-010682/D001.R000
Report Date: 09/30/2024
ORELAP#: OR100028
Purchase Order:
Received: 09/23/24 11:30

Customer: NW Natural Goods
Product identity: HEMP - EB 0122
Client/Metric ID: .
Laboratory ID: 24-010682-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.221		mg/4g		CBD-Total per Serving Size 23.8 mg/4g
CBD per 4g	23.8		mg/4g		
CBDV per 4g	0.223		mg/4g		Delta-9-THC-Total per <LOQ
CBG per 4g	0.596		mg/4g		(Reported in milligrams per serving)
CBN per 4g	5.24		mg/4g		

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 0122
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-010682-0001
Evidence of Cooling: No
Temp: 20.4
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: 2407408		Analyze: 9/25/24 11:34:00 AM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.221		mg/4g	0.129		
CBC-A per 4g	< LOQ		mg/4g	0.129		
CBC-Total per 4g	< LOQ		mg/4g	0.241		
CBD per 4g	23.8		mg/4g	0.129		
CBD-A per 4g ¹	< LOQ		mg/4g	0.129		
CBD-Total per 4g ¹	23.8		mg/4g	0.241		
CBDV per 4g	0.223		mg/4g	0.129		
CBDV-A per 4g	< LOQ		mg/4g	0.129		
CBDV-Total per 4g	< LOQ		mg/4g	0.240		
CBE per 4g	< LOQ		mg/4g	0.129		
CBG per 4g	0.596		mg/4g	0.129		
CBG-A per 4g	< LOQ		mg/4g	0.129		
CBG-Total per 4g	0.596		mg/4g	0.240		
CBL per 4g	< LOQ		mg/4g	0.129		
CBL-A per 4g	< LOQ		mg/4g	0.129		
CBL-Total per 4g	< LOQ		mg/4g	0.241		
CBN per 4g	5.24		mg/4g	0.129		
CBT per 4g	< LOQ		mg/4g	0.129		
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.129		
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.129		
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.257		
Δ8-THC per 4g ¹	< LOQ		mg/4g	0.129		
Δ8-THCV per 4g	< LOQ		mg/4g	0.129		
Δ9-THC per 4g ¹	< LOQ		mg/4g	0.129		
Δ9-THC-Total per 4g	< LOQ		mg/4g	0.241		
Δ9-THCP per 4g	< LOQ		mg/4g	0.129		
Δ9-THCV per 4g	< LOQ		mg/4g	0.129		
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.129		
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.241		
exo-THC per 4g	< LOQ		mg/4g	0.129		
THC-A per 4g ¹	< LOQ		mg/4g	0.129		
Total Cannabinoids per 4g	30.0		mg/4g			


Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2407354	09/26/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2407354	09/26/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2407355	09/27/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2407355	09/27/24 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS^b Units µg/g Batch 2407455 Analyze 09/26/24 11:17 AM

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 2407465 Analyze 09/26/24 01:03 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	0.0180	2407513	09/27/24 AOAC 2013.06 (mod.) ^P	pass	
Cadmium ^L	< LOQ	0.200	mg/kg	0.0180	2407513	09/27/24 AOAC 2013.06 (mod.) ^P	pass	
Lead ^L	< LOQ	0.500	mg/kg	0.0180	2407513	09/27/24 AOAC 2013.06 (mod.) ^P	pass	
Mercury ^L	< LOQ	0.100	mg/kg	0.00899	2407513	09/27/24 AOAC 2013.06 (mod.) ^P	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.8		g/100g	0.10	2407470	09/25/24 AOAC 925.10 (mod.)		
Water Activity	0.722		Aw	0.030	2407404	09/24/24 AOAC 978.18		

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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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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

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis
 Chain of Custody

Northwest-Natural-
 Goods-1726771841

Company Details 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 0122</u> Cannabis Type (select if applicable): <u>Industrial</u> Pick-Up Details Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted]				Testing						
	Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>				P2320 - Multi-Residue Pesticide Profile (Cannabis)	H0010 - Potency Cannabis (Basic+Expanded)	M075 - E. coli/Coliform Count (EC) Petri Im	H0008 - Residual Solvents (Cannabis - Oregon)	H0013 - Cannabis Heavy Metals Profile CR	N3600 - Water Activity & Moisture (as Loss on Drying) Food	M283 - RAPID Yeast and Mold Count (RYM) Petri Im
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size						
1	HEMP - EB 0122	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>09/19/2024</i>	<i>11:50</i>	<i>Temp., °C</i>	<i>BR</i>	<i>09/23/2024</i>	<i>10:25</i>	<i>25</i>	<i>No</i>
<i>BR</i>	<i>09/23/2024</i>	<i>10:53</i>	<i>20.4</i>	<i>jack</i>	<i>09/23/2024</i>	<i>11:30</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
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 Portland, OR 97230

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2407408

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0313	0.0307	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0286	0.0287	%	99.4	80.0 - 120	Acceptable	
CBE	2	0.0347	0.0349	%	99.3	80.0 - 120	Acceptable	
CBDA	1	0.0357	0.0354	%	101	90.0 - 110	Acceptable	
CBGA	1	0.0351	0.0347	%	101	80.0 - 120	Acceptable	
CBG	1	0.0316	0.0311	%	102	80.0 - 120	Acceptable	
CBD	1	0.0345	0.0347	%	99.4	90.0 - 110	Acceptable	
THCV	2	0.0335	0.0336	%	99.7	80.0 - 120	Acceptable	
d8THCV	2	0.0343	0.0345	%	99.3	80.0 - 120	Acceptable	
THCVA	2	0.0305	0.0306	%	99.8	80.0 - 120	Acceptable	
CBN	1	0.0350	0.0348	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0317	0.0324	%	98.0	80.0 - 120	Acceptable	
d9THC	1	0.0330	0.0334	%	98.7	90.0 - 110	Acceptable	
d8THC	1	0.0267	0.0281	%	95.0	90.0 - 110	Acceptable	
9S-d10THC	1	0.0339	0.0350	%	96.9	80.0 - 120	Acceptable	
CBL	2	0.0290	0.0305	%	95.0	80.0 - 120	Acceptable	
9R-d10THC	1	0.0347	0.0362	%	95.9	80.0 - 120	Acceptable	
CBC	2	0.0338	0.0344	%	98.1	80.0 - 120	Acceptable	
THCA	1	0.0365	0.0355	%	103	90.0 - 110	Acceptable	
CBCA	2	0.0314	0.0319	%	98.4	80.0 - 120	Acceptable	
CBLA	2	0.0314	0.0323	%	97.1	80.0 - 120	Acceptable	
d9THCP	2	0.0308	0.0320	%	96.4	80.0 - 120	Acceptable	
CBT	2	0.0302	0.0332	%	91.0	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBDV	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBE	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBDA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBGA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBG	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBD	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCV	<LOQ	0.00305	%	< 0.00305	Acceptable	
d8THCV	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCVA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBN	<LOQ	0.00305	%	< 0.00305	Acceptable	
exo-THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
d9THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
d8THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
9S-d10THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBL	<LOQ	0.00305	%	< 0.00305	Acceptable	
9R-d10THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBC	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBCA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBLA	<LOQ	0.00305	%	< 0.00305	Acceptable	
d9THCP	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBT	<LOQ	0.00305	%	< 0.00305	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: 2407408						
Sample Duplicate		Sample ID: 24-010661-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBG	0.00847	0.00817	0.00326	%	3.65	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
THCV	0.00380	0.00392	0.00326	%	3.04	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THC	0.263	0.262	0.00326	%	0.206	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBC	0.00466	0.00475	0.00326	%	2.01	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00326	%	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: 2407455					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		435	585	µg/g	74.4	60 - 120	
Isobutane	ND	< 200		559	770	µg/g	72.6	60 - 120	
Butane	ND	< 200		570	769	µg/g	74.1	60 - 120	
2,2-Dimethylpropane	ND	< 200		706	956	µg/g	73.8	60 - 120	
Methanol	ND	< 200		1320	1630	µg/g	81.0	60 - 120	
Ethylene Oxide	ND	< 30		43.9	57.7	µg/g	76.1	60 - 120	
2-Methylbutane	ND	< 200		1270	1620	µg/g	78.4	60 - 120	
Pentane	ND	< 200		1250	1620	µg/g	77.2	60 - 120	
Ethanol	ND	< 200		1350	1620	µg/g	83.3	70 - 130	
Ethyl Ether	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
2,2-Dimethylbutane	ND	< 30		144	179	µg/g	80.4	60 - 120	
Acetone	ND	< 200		1300	1620	µg/g	80.2	60 - 120	
2-Propanol	ND	< 200		1310	1620	µg/g	80.9	60 - 120	
Ethyl Formate	ND	< 500		1170	1610	µg/g	72.7	70 - 130	
Acetonitrile	ND	< 100		391	502	µg/g	77.9	60 - 120	
Methyl Acetate	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		147	180	µg/g	81.7	60 - 120	
Dichloromethane	ND	< 60		434	533	µg/g	81.4	60 - 120	
2-Methylpentane	ND	< 30		151	181	µg/g	83.4	60 - 120	
MTBE	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
3-Methylpentane	ND	< 30		148	177	µg/g	83.6	60 - 120	
Hexane	ND	< 30		147	182	µg/g	80.8	60 - 120	
1-Propanol	ND	< 500		1310	1610	µg/g	81.4	70 - 130	
Methylethylketone	ND	< 500		1350	1600	µg/g	84.4	70 - 130	
Ethyl acetate	ND	< 200		1330	1620	µg/g	82.1	60 - 120	
2-Butanol	ND	< 200		1320	1630	µg/g	81.0	60 - 120	
Tetrahydrofuran	ND	< 100		411	499	µg/g	82.4	60 - 120	
Cyclohexane	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
2-methyl-1-propanol	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
Benzene	ND	< 1		3.96	5.01	µg/g	79.0	60 - 120	
Isopropyl Acetate	ND	< 200		1310	1620	µg/g	80.9	60 - 120	
Heptane	ND	< 200		1270	1610	µg/g	78.9	60 - 120	
1-Butanol	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
Propyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
1,4-Dioxane	ND	< 100		398	493	µg/g	80.7	60 - 120	
2-Ethoxyethanol	ND	< 30		142	182	µg/g	78.0	60 - 120	
Methylisobutylketone	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
Ethylene Glycol	ND	< 200		322	501	µg/g	64.3	60 - 120	
Toluene	ND	< 100		400	501	µg/g	79.8	60 - 120	
Isobutyl Acetate	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
1-Pentanol	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
Butyl Acetate	ND	< 500		1340	1600	µg/g	83.8	70 - 130	
Ethylbenzene	ND	< 200		756	981	µg/g	77.1	60 - 120	
m,p-Xylene	ND	< 200		728	1000	µg/g	72.8	60 - 120	
o-Xylene	ND	< 200		834	981	µg/g	85.0	60 - 120	
Cumene	ND	< 30		153	177	µg/g	86.4	60 - 120	
Anisole	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
DMSO	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		127	161	µg/g	78.9	70 - 130	
Triethylamine	ND	< 500		1310	1600	µg/g	81.9	70 - 130	
N,N-dimethylformamide	ND	< 150		423	484	µg/g	87.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		507	497	µg/g	102.0	70 - 130	
Pyridine	ND	< 50		124	162	µg/g	76.5	70 - 130	
Sulfolane	ND	< 50		128	166	µg/g	77.1	70 - 130	
1,2-Dichloroethane	ND	< 1		0.864	1	µg/g	86.4	70 - 130	
Chloroform	ND	< 1		0.84	1	µg/g	84.0	70 - 130	
Trichloroethylene	ND	< 1		0.841	1	µg/g	84.1	70 - 130	
1,1-Dichloroethane	ND	< 1		0.858	1	µg/g	85.8	70 - 130	



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Report Number: 24-010682/D001.R000
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Received: 09/23/24 11:30

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QC - Sample Duplicate

Sample ID: 24-010616-0001

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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	370	404	200	µg/g	8.8	< 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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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.