



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



Report Number: 23-000318/D002.R000
Report Date: 01/23/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/09/23 15:24

Customer: NW Natural Goods
Product identity: HEMP- EB 0060
Client/Metric ID: .
Laboratory ID: 23-000318-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.226		mg/4g		CBD-Total per Serving Size 23.6 mg/4g
CBD per 4g	23.6		mg/4g		
CBG per 4g	0.692		mg/4g		THC-Total per Serving Size <LOQ
CBN per 4g	4.92		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 0060

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-000318-0001

Evidence of Cooling: No

Temp: 13.5

Relinquished by: hinton

Serving Size #1: 4 g

Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) ^b					
Units mg/se Batch: 2300463 Analyze: 1/14/23 4:57:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.226		mg/4g	0.129	
CBC-A per 4g	< LOQ		mg/4g	0.129	
CBC-Total per 4g	< LOQ		mg/4g	0.242	
CBD per 4g	23.6		mg/4g	0.129	
CBD-A per 4g	< LOQ		mg/4g	0.129	
CBD-Total per 4g	23.6		mg/4g	0.242	
CBDV per 4g	< LOQ		mg/4g	0.129	
CBDV-A per 4g	< LOQ		mg/4g	0.129	
CBDV-Total per 4g	< LOQ		mg/4g	0.241	
CBE per 4g	< LOQ		mg/4g	0.129	
CBG per 4g	0.692		mg/4g	0.129	
CBG-A per 4g	< LOQ		mg/4g	0.129	
CBG-Total per 4g	0.692		mg/4g	0.241	
CBL per 4g	< LOQ		mg/4g	0.129	
CBL-A per 4g	< LOQ		mg/4g	0.129	
CBL-Total per 4g	< LOQ		mg/4g	0.242	
CBN per 4g	4.92		mg/4g	0.129	
CBT per 4g	< LOQ		mg/4g	0.129	
Δ8-THCV per 4g	< LOQ		mg/4g	0.129	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.129	
Δ8-THC per 4g	< LOQ		mg/4g	0.129	
Δ9-THC per 4g	< LOQ		mg/4g	0.129	
exo-THC per 4g	< LOQ		mg/4g	0.129	
THC-A per 4g	< LOQ		mg/4g	0.129	
THC-Total per 4g	< LOQ		mg/4g	0.242	
THCV per 4g	< LOQ		mg/4g	0.129	
THCV-A per 4g	< LOQ		mg/4g	0.129	
THCV-Total per 4g	< LOQ		mg/4g	0.242	
Total Cannabinoids per 4g	29.6		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300299	01/13/23 AOAC 991.14 (Petrifilm) [®]		
Total Coliforms	< LOQ		cfu/g	10	2300299	01/13/23 AOAC 991.14 (Petrifilm) [®]		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300300	01/14/23 AOAC 2014.05 (RAPID) [®]		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300300	01/14/23 AOAC 2014.05 (RAPID) [®]		

Solvents Method: Residual Solvents by GC/MS[®] Units µg/g Batch 2300638 Analyze 01/20/23 10:57 AM

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

Pesticides Method: AOAC 2007.01 & EN 15662 (mod)[®] Units mg/kg Batch 2300507 Analyze 01/17/23 11:01 AM

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

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ		mg/kg	0.0185	2300511	01/17/23 AOAC 2013.06 (mod.) [®]		
Cadmium	< LOQ		mg/kg	0.0185	2300511	01/17/23 AOAC 2013.06 (mod.) [®]		
Lead	< LOQ		mg/kg	0.0185	2300511	01/17/23 AOAC 2013.06 (mod.) [®]		
Mercury	< LOQ		mg/kg	0.00925	2300511	01/17/23 AOAC 2013.06 (mod.) [®]		



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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.3		g/100g	0.10	2300529	01/17/23 AOAC 925.10 (mod.) ^p		
Water Activity	0.704		Aw	0.030	2300359	01/11/23 AOAC 978.18 ^p		



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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.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

cfu/g = Colony forming units per gram

g = g

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

Aw = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis: Usable / Extract / Finished Product

Chain of Custody Reco

NWNATURALGOODS 23-000318

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

ORELAP ID: OR100028 ANAB ISO 17025 ID:



Company: Northwest Natural Goods Contact: Annie Nair Address: 11791 SE HWY 212 City: Clackamas State: OR Zip Code: 97015 <input checked="" type="checkbox"/> Email Results: annienair@nwnaturalgoods.com <input type="checkbox"/> Ph: () - <i>Billing Contact (if different)</i> Name: Email: Address: City: State: Zip: Ph: () -			Analysis Req NW Natural Goods <table border="1"> <tr> <td>Pesticides - OR 59 Compounds</td> <td>Pesticide Multi-Residue - 379 compounds</td> <td>Potency</td> <td>Residual Solvents</td> <td>Water Activity</td> <td>Moisture</td> <td>Micro: Yeast and Mold</td> <td>Micro: E.Coli and Total Coliform</td> <td>Heavy Metals</td> <td>Mycotoxins</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> </table>										Pesticides - OR 59 Compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	✓	✓	✓	✓	✓	✓	✓	✓	✓		Sampled by: Custom Reporting: Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>	
Pesticides - OR 59 Compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins																									
✓	✓	✓	✓	✓	✓	✓	✓	✓																										
Lab ID	Client Sample Identification	Sample date								Material Type †	Weight (Units)	Comments/Metrc ID																						
	HEMP - EB 0060	01/09/23									80g																							
Signature - Relinquished By: Annie Nair <i>MRA</i>			Date: 01/09/23	Time: 13:53	Signature - Received By: <i>MRA</i> <i>BS</i>			Date: 1/9 01/09/23	Time: 12:55 1524	Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): <u>13.5</u> Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage:																								

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way P: (503) 254-1794 | Fax: (503) 254-1452 Page _____ of _____
 Portland, OR 97230 info@columbiaboratories.com www.columbiaboratories.com



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Report Number: 23-000318/D002.R000
Report Date: 01/23/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/09/23 15:24

Revision: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300463

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0334	0.033	%	99.9	80.0	- 120	Acceptable	
CBDV	2	0.0354	0.035	%	100	80.0	- 120	Acceptable	
CBE	2	0.0347	0.035	%	99.1	80.0	- 120	Acceptable	
CBDA	1	0.0312	0.032	%	97.4	90.0	- 110	Acceptable	
CBGA	1	0.0315	0.032	%	98.2	80.0	- 120	Acceptable	
CBG	1	0.0324	0.033	%	98.4	80.0	- 120	Acceptable	
CBD	1	0.0313	0.032	%	96.5	90.0	- 110	Acceptable	
THCV	2	0.0351	0.035	%	99.1	80.0	- 120	Acceptable	
d8THCV	2	0.0348	0.034	%	101	80.0	- 120	Acceptable	
THCVA	2	0.0328	0.033	%	99.5	80.0	- 120	Acceptable	
CBN	1	0.0335	0.034	%	98.7	80.0	- 120	Acceptable	
exo-THC	2	0.0324	0.032	%	100	80.0	- 120	Acceptable	
d9THC	1	0.0352	0.035	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0319	0.033	%	95.3	90.0	- 110	Acceptable	
CBL	2	0.0346	0.035	%	100	80.0	- 120	Acceptable	
d10THC	1	0.0154	0.016	%	97.6	80.0	- 120	Acceptable	
CB	2	0.0342	0.035	%	98.8	80.0	- 120	Acceptable	
THCA	1	0.0317	0.032	%	100	90.0	- 110	Acceptable	
CBCA	2	0.0342	0.034	%	99.4	80.0	- 120	Acceptable	
CBLA	2	0.0346	0.035	%	99.1	80.0	- 120	Acceptable	
CBT	2	0.0344	0.035	%	97.9	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDV	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBE	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBGA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBG	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBD	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBN	<LOQ	0.0006	%	< 0.0006	Acceptable	
exo-THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d9THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
d8THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBL	<LOQ	0.0006	%	< 0.0006	Acceptable	
d10THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CB	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBLA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBT	<LOQ	0.0006	%	< 0.0006	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: 2300463						
Sample Duplicate		Sample ID: 23-000249-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0172	0.0172	0.003	%	0.159	< 20	Acceptable	
CBD	0.587	0.590	0.003	%	0.512	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00543	0.00546	0.003	%	0.548	< 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	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2300638					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		545	572	µg/g	95.3	60 - 120	
Isobutane	ND	< 200		640	731	µg/g	87.6	60 - 120	
Butane	ND	< 200		625	731	µg/g	85.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		839	936	µg/g	89.6	60 - 120	
Methanol	ND	< 200		1680	1620	µg/g	103.7	60 - 120	
Ethylene Oxide	ND	< 30		49.8	56.2	µg/g	88.6	60 - 120	
2-Methylbutane	ND	< 200		1400	1610	µg/g	87.0	60 - 120	
Pentane	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
Ethanol	ND	< 200		1180	1610	µg/g	73.3	70 - 130	
Ethyl Ether	ND	< 200		1410	1630	µg/g	86.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		161	171	µg/g	94.2	60 - 120	
Acetone	ND	< 200		1510	1630	µg/g	92.6	60 - 120	
2-Propanol	ND	< 200		1520	1620	µg/g	93.8	60 - 120	
Ethyl Formate	ND	< 500		1600	1670	µg/g	95.8	70 - 130	
Acetonitrile	ND	< 100		435	498	µg/g	87.3	60 - 120	
Methyl Acetate	ND	< 500		1640	1730	µg/g	94.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		151	171	µg/g	88.3	60 - 120	
Dichloromethane	ND	< 60		433	483	µg/g	89.6	60 - 120	
2-Methylpentane	ND	< 30		143	168	µg/g	85.1	60 - 120	
MTBE	ND	< 500		1500	1650	µg/g	90.9	70 - 130	
3-Methylpentane	ND	< 30		133	167	µg/g	79.6	60 - 120	
Hexane	ND	< 30		202	182	µg/g	111.0	60 - 120	
1-Propanol	ND	< 500		1400	1620	µg/g	86.4	70 - 130	
Methylethylketone	ND	< 500		1610	1620	µg/g	99.4	70 - 130	
Ethyl acetate	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
2-Butanol	ND	< 200		1450	1600	µg/g	90.6	60 - 120	
Tetrahydrofuran	ND	< 100		386	483	µg/g	79.9	60 - 120	
Cyclohexane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
2-methyl-1-propanol	ND	< 500		1250	1620	µg/g	77.2	70 - 130	
Benzene	ND	< 1		4.05	5.02	µg/g	80.7	60 - 120	
Isopropyl Acetate	ND	< 200		1430	1620	µg/g	88.3	60 - 120	
Heptane	ND	< 200		1580	1610	µg/g	98.1	60 - 120	
1-Butanol	ND	< 500		1010	1630	µg/g	62.0	70 - 130	Q6
Propyl Acetate	ND	< 500		1290	1610	µg/g	80.1	70 - 130	
1,4-Dioxane	ND	< 100		415	491	µg/g	84.5	60 - 120	
2-Ethoxyethanol	ND	< 30		112	181	µg/g	61.9	60 - 120	
Methylisobutylketone	ND	< 500		1420	1620	µg/g	87.7	70 - 130	
3-Methyl-1-butanol	ND	< 500		1220	1630	µg/g	74.8	70 - 130	
Ethylene Glycol	ND	< 200		513	484	µg/g	106.0	60 - 120	
Toluene	ND	< 100		400	485	µg/g	82.5	60 - 120	
Isobutyl Acetate	ND	< 500		1550	1630	µg/g	95.1	70 - 130	
1-Pentanol	ND	< 500		1230	1620	µg/g	75.9	70 - 130	
Butyl Acetate	ND	< 500		1390	1620	µg/g	85.8	70 - 130	
Ethylbenzene	ND	< 200		838	969	µg/g	86.5	60 - 120	
m,p-Xylene	ND	< 200		853	994	µg/g	85.8	60 - 120	
o-Xylene	ND	< 200		770	967	µg/g	79.6	60 - 120	
Cumene	ND	< 30		129	171	µg/g	75.4	60 - 120	
Anisole	ND	< 500		1010	1630	µg/g	62.0	70 - 130	Q6
DMSO	ND	< 500		1410	1680	µg/g	83.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		159	169	µg/g	94.1	70 - 130	
Triethylamine	ND	< 500		1540	1630	µg/g	94.5	70 - 130	
N,N-dimethylformamide	ND	< 150		459	482	µg/g	95.2	70 - 130	
N,N-dimethylacetamide	ND	< 150		333	510	µg/g	65.3	70 - 130	Q6
Pyridine	ND	< 50		174	203	µg/g	85.7	70 - 130	
Sulfone	ND	< 50		133	172	µg/g	77.3	70 - 130	
1,2-Dichloroethane	ND	< 1		0.801	1	µg/g	80.1	70 - 130	
Chloroform	ND	< 1		0.83	1	µg/g	83.0	70 - 130	
Trichloroethylene	ND	< 1		0.825	1	µg/g	82.5	70 - 130	
1,1-Dichloroethane	ND	< 1		0.779	1	µg/g	77.9	70 - 130	



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 Legacy ID: CFL-E33Effective:

QC - Sample Duplicate Sample ID: 23-000249-0001

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	
Methyl ethyl ketone	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

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

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.