



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

This is an amended version of report# 24-006386/D001.R000.  
Reason: updated sample name

**Customer:** NW Natural Goods  
**Product identity:** HEMP -DMB0001  
**Client/Metric ID:** .  
**Laboratory ID:** 24-006386-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	0.261		mg/4g		Delta-9-THC-Total per 10.2 mg/4g
Δ8-THC per 4g	0.172		mg/4g		
Δ9-THC per 4g	10.2		mg/4g		CBD-Total per Serving Size 0.261 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.



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

**Customer:** NW Natural Goods

**Product identity:** HEMP -DMB0001  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-006386-0001  
**Evidence of Cooling:** No  
**Temp:** 16 °C  
**Serving Size #1:** 4 g

### Sample Results

Potency per 4g	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2404515	Analyze: 6/14/24 1:06:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	< LOQ		mg/4g	0.123	
CBC-A per 4g	< LOQ		mg/4g	0.123	
CBC-Total per 4g	< LOQ		mg/4g	0.232	
CBD per 4g	0.261		mg/4g	0.123	
CBD-A per 4g <sup>±</sup>	< LOQ		mg/4g	0.123	
CBD-Total per 4g <sup>±</sup>	0.261		mg/4g	0.232	
CBDV per 4g	< LOQ		mg/4g	0.123	
CBDV-A per 4g	< LOQ		mg/4g	0.123	
CBDV-Total per 4g	< LOQ		mg/4g	0.230	
CBE per 4g	< LOQ		mg/4g	0.123	
CBG per 4g	< LOQ		mg/4g	0.123	
CBG-A per 4g	< LOQ		mg/4g	0.123	
CBG-Total per 4g	< LOQ		mg/4g	0.230	
CBL per 4g	< LOQ		mg/4g	0.123	
CBL-A per 4g	< LOQ		mg/4g	0.123	
CBL-Total per 4g	< LOQ		mg/4g	0.232	
CBN per 4g	< LOQ		mg/4g	0.123	
CBT per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.247	
Δ8-THC per 4g <sup>±</sup>	0.172		mg/4g	0.123	
Δ8-THCV per 4g	< LOQ		mg/4g	0.123	
Δ9-THC per 4g <sup>±</sup>	10.2		mg/4g	0.123	
Δ9-THC-Total per 4g	10.2		mg/4g	0.232	
Δ9-THCP per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.123	
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.232	
exo-THC per 4g	< LOQ		mg/4g	0.123	
THC-A per 4g <sup>±</sup>	< LOQ		mg/4g	0.123	
Total Cannabinoids per 4g	10.6		mg/4g		



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2404430	06/14/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2404430	06/14/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2404431	06/15/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2404431	06/15/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2404483 Analyze 06/13/24 12:25 PM**

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

**Pesticides Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2404593 Analyze 06/18/24 12:14 PM**

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 <sup>±</sup>	< LOQ	0.200	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Cadmium <sup>±</sup>	< LOQ	0.200	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Lead <sup>±</sup>	< LOQ	0.500	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Mercury <sup>±</sup>	< LOQ	0.100	mg/kg	0.00879	2404490	06/13/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	19.7		g/100g	0.10	2404491	06/12/24 AOAC 925.10 (mod.)		
Water Activity	0.742		Aw	0.030	2404438	06/12/24 AOAC 978.18		



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

**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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

<sup>⊥</sup> = 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

Aw = Water Activity

% 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:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05



Hemp & Cannabis  
Chain of Custody

Northwest-Natural-  
Goods-1718109065

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

<b>Company Details</b> Company: <u>Northwest Natural Goods</u> Contact: <u>Kristen Johnson</u> Street Address: <u>11791 SE HWY 212</u> City, State, Zip: <u>Clackamas, OR 97015</u> Email: <u>kjohnson@nwnaturalgoods.com</u> Contact Phone: <u>3865699210</u> Company Phone: <u>3865699210</u>  <b>Billing Information</b> Billing Email: <u>ap@nwconfections.com</u>					<b>Project Details</b> 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-MB FULL SPEC B1</u> Cannabis Type (select if applicable): <u>Industrial</u> <b>Pick-Up Details</b> Pick-Up Location Name: <u>Northwest Natural Goods</u> Contact Phone: <u>3865699210</u> Address Line 1: <u>11791 SE HWY 212</u> City, State, Zip: <u>Clackamas, OR 97015</u> <b>Receipt Information</b> Pre-Log Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>					<b>Testing</b>						
					H0013 - Cannabis Heavy Metals Profile OR	P2320 - Multi-Residue Pesticide Profile (Cannabis)	N3600 - Water Activity & Moisture (as Loss on Drying)   Food	H0010 - Potency Cannabis (Basic+Expanded)	H0008 - Residual Solvents (Cannabis - Oregon)	M075 - E. coli/Coliform Count (EC) Petrifilm	M283 - RAPID Yeast and Mold Count (RYM) Petrifilm					
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size											
1	HEMP-MB FULL SPEC B1	Cannabinoid Edible	20 each	mg/g & mg/serving	4 g	✓	✓	✓	✓	✓	✓					

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	06/11/2024	05:31	Temp., °C	BR	06/11/2024	10:25	25	No
BR	06/11/2024	11:40	16	det	06/11/2024	12:05	16	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  
[info@columbialaboratories.com](mailto:info@columbialaboratories.com)

Page 1 of 1  
[www.columbialaboratories.com](http://www.columbialaboratories.com)



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2404483			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		580	584	µg/g	99.3 60 - 120
Isobutane	ND	< 200		733	767	µg/g	95.6 60 - 120
Butane	ND	< 200		737	782	µg/g	94.2 60 - 120
2,2-Dimethylpropane	ND	< 200		906	939	µg/g	96.5 60 - 120
Methanol	ND	< 200		2380	1600	µg/g	148.8 60 - 120 Q1
Ethylene Oxide	ND	< 30		56	57.1	µg/g	98.1 60 - 120
2-Methylbutane	ND	< 200		2270	1620	µg/g	140.1 60 - 120 Q1
Pertane	ND	< 200		1300	1610	µg/g	80.7 60 - 120
Ethanol	ND	< 200		1350	1600	µg/g	84.4 70 - 130
Ethyl Ether	ND	< 200		1310	1610	µg/g	81.4 60 - 120
2,2-Dimethylbutane	ND	< 30		154	190	µg/g	81.1 60 - 120
Acetone	ND	< 200		1420	1610	µg/g	88.2 60 - 120
2-Propanol	ND	< 200		1370	1610	µg/g	85.1 60 - 120
Ethyl Formate	ND	< 500		1240	1630	µg/g	76.1 70 - 130
Acetonitrile	ND	< 100		398	486	µg/g	81.9 60 - 120
Methyl Acetate	ND	< 500		1460	1610	µg/g	90.7 70 - 130
2,3-Dimethylbutane	ND	< 30		144	163	µg/g	88.3 60 - 120
Dichloromethane	ND	< 60		385	482	µg/g	79.9 60 - 120
2-Methylpentane	ND	< 30		149	178	µg/g	83.7 60 - 120
MTBE	ND	< 500		1420	1610	µg/g	88.2 70 - 130
3-Methylpentane	ND	< 30		438	490	µg/g	89.4 60 - 120
Hexane	ND	< 30		157	175	µg/g	89.7 60 - 120
1-Propanol	ND	< 500		1470	1610	µg/g	91.3 70 - 130
Methylethylketone	ND	< 500		1430	1610	µg/g	88.8 70 - 130
Ethyl acetate	ND	< 200		1360	1600	µg/g	85.0 60 - 120
2-Butanol	ND	< 200		1350	1610	µg/g	83.9 60 - 120
Tetrahydrofuran	ND	< 100		401	504	µg/g	79.6 60 - 120
Cyclohexane	ND	< 200		1320	1620	µg/g	81.5 60 - 120
2-methyl-1-propanol	ND	< 500		1300	1610	µg/g	80.7 70 - 130
Benzene	ND	< 1		3.94	5.08	µg/g	77.6 60 - 120
Isopropyl Acetate	ND	< 200		1360	1610	µg/g	84.5 60 - 120
Heptane	ND	< 200		1300	1610	µg/g	80.7 60 - 120
1-Butanol	ND	< 500		1360	1610	µg/g	84.5 70 - 130
Propyl Acetate	ND	< 500		1430	1610	µg/g	88.8 70 - 130
1,4-Dioxane	ND	< 100		388	488	µg/g	79.5 60 - 120
2-Ethoxyethanol	ND	< 30		133	163	µg/g	81.6 60 - 120
Methylisobutylketone	ND	< 500		1400	1620	µg/g	86.4 70 - 130
3-Methyl-1-butanol	ND	< 500		1320	1610	µg/g	82.0 70 - 130
Ethylene Glycol	ND	< 200		373	488	µg/g	76.4 60 - 120
Toluene	ND	< 100		530	492	µg/g	107.7 60 - 120
Isobutyl Acetate	ND	< 500		1390	1620	µg/g	85.8 70 - 130
1-Pentanol	ND	< 500		1310	1610	µg/g	81.4 70 - 130
Butyl Acetate	ND	< 500		1480	1650	µg/g	89.7 70 - 130
Ethylbenzene	ND	< 200		806	969	µg/g	83.2 60 - 120
m,p-Xylene	ND	< 200		814	981	µg/g	83.0 60 - 120
o-Xylene	ND	< 200		820	966	µg/g	84.9 60 - 120
Cumene	ND	< 30		151	167	µg/g	90.4 60 - 120
Anisole	ND	< 500		1350	1610	µg/g	83.9 70 - 130
DMSO	ND	< 500		1220	1610	µg/g	75.8 70 - 130
1,2-dimethoxyethane	ND	< 50		153	170	µg/g	90.0 70 - 130
Triethylamine	ND	< 500		908	1620	µg/g	56.0 70 - 130 Q6
N,N-dimethylformamide	ND	< 150		413	499	µg/g	82.8 70 - 130
N,N-dimethylacetamide	ND	< 150		398	489	µg/g	81.4 70 - 130
Pyridine	ND	< 50		125	167	µg/g	74.9 70 - 130
Sulfolane	ND	< 50		113	169	µg/g	66.9 70 - 130 Q6
1,2-Dichloroethane	ND	< 1		0.821	1	µg/g	82.1 70 - 130
Chloroform	ND	< 1		0.791	1	µg/g	79.1 70 - 130
Trichloroethylene	ND	< 1		0.786	1	µg/g	78.6 70 - 130
1,1-Dichloroethane	ND	< 1		0.724	1	µg/g	72.4 70 - 130

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



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

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

QC- Sample Duplicate

Sample ID: 24-006296-0001

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:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2404515

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDVA	2	0.0319	0.0318	%	100	80.0 - 120	Acceptable	
CBDV	2	0.0318	0.0322	%	99.0	80.0 - 120	Acceptable	
CBE	2	0.0317	0.0318	%	99.7	80.0 - 120	Acceptable	
CBDA	1	0.0306	0.0307	%	99.9	90.0 - 110	Acceptable	
CBGA	1	0.0306	0.0304	%	101	80.0 - 120	Acceptable	
CBG	1	0.0300	0.0299	%	100	80.0 - 120	Acceptable	
CBD	1	0.0322	0.0323	%	99.7	90.0 - 110	Acceptable	
THCV	2	0.0336	0.0339	%	99.0	80.0 - 120	Acceptable	
d8THCV	2	0.0340	0.0343	%	99.1	80.0 - 120	Acceptable	
THCVA	2	0.0314	0.0312	%	100	80.0 - 120	Acceptable	
CBN	1	0.0306	0.0304	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.0270	0.0278	%	97.4	80.0 - 120	Acceptable	
d9THC	1	0.0320	0.0322	%	99.3	90.0 - 110	Acceptable	
d8THC	1	0.0310	0.0315	%	98.5	90.0 - 110	Acceptable	
9S-d10THC	1	0.0310	0.0316	%	97.9	80.0 - 120	Acceptable	
CBL	2	0.0302	0.0322	%	93.6	80.0 - 120	Acceptable	
9S-HHC	3	0.0303	0.0323	%	93.6	80.0 - 120	Acceptable	
9R-d10THC	1	0.0301	0.0338	%	88.9	80.0 - 120	Acceptable	
CBC	2	0.0317	0.0325	%	97.7	80.0 - 120	Acceptable	
9R-HHC	3	0.0306	0.0326	%	93.9	80.0 - 120	Acceptable	
THCA	1	0.0322	0.0304	%	106	90.0 - 110	Acceptable	
CBCA	2	0.0323	0.0328	%	98.7	80.0 - 120	Acceptable	
CBLA	2	0.0324	0.0329	%	98.6	80.0 - 120	Acceptable	
d9THCP	2	0.0299	0.0318	%	94.2	80.0 - 120	Acceptable	
d8THCO	3	0.0302	0.0318	%	94.9	80.0 - 120	Acceptable	
CBT	2	0.0289	0.0324	%	89.3	80.0 - 120	Acceptable	
d9THCO	3	0.0282	0.0297	%	94.9	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDV	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBE	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBGA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBG	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBD	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBN	<LOQ	0.00322	%	< 0.00322	Acceptable	
exo-THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9S-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBL	<LOQ	0.00322	%	< 0.00322	Acceptable	
9S-HHC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9R-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9R-HHC	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBLA	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THCP	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THCO	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBT	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THCO	<LOQ	0.00322	%	< 0.00322	Acceptable	

Abbreviations

ND - None Detected at or above MRI



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2404515						
Sample Duplicate		Sample ID: 24-0062810001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBD	0.00651	0.00659	0.00325	%	1.24	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d9THC	0.263	0.259	0.00325	%	1.53	< 20	Acceptable	
d8THC	0.00445	0.00424	0.00325	%	4.85	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**

% - Percent



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



**Report Number:** 24-006386/D001.R001  
**Report Date:** 06/28/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/11/24 12:05





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.