



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.



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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) ^b	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 ¹	< LOQ		mg/4g	0.123	
CBD-Total per 4g ¹	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 ¹	0.172		mg/4g	0.123	
Δ8-THCV per 4g	< LOQ		mg/4g	0.123	
Δ9-THC per 4g ¹	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 ¹	< LOQ		mg/4g	0.123	
Total Cannabinoids per 4g	10.6		mg/4g		



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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^b 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 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 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 ¹	< LOQ	0.200	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) ^b	pass	
Cadmium ¹	< LOQ	0.200	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) ^b	pass	
Lead ¹	< LOQ	0.500	mg/kg	0.0176	2404490	06/13/24 AOAC 2013.06 (mod.) ^b	pass	
Mercury ¹	< LOQ	0.100	mg/kg	0.00879	2404490	06/13/24 AOAC 2013.06 (mod.) ^b	pass	



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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		



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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-1718109065

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1608

Company Details					Project Details							Testing						
Company: <u>Northwest Natural Goods</u>					Turnaround Time: <u>5 Business Days Req. For Micro Testing Standard</u>							H0013 - Cannabis Heavy Metals Profile DR						
[REDACTED]					Relinquishment Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u>							P2320 - Multi-Residue Pesticide Profile (Cannabis)						
[REDACTED]					Compliance: <u>Compliance</u>							N3600 - Water Activity & Moisture (as Loss on Drying) Food						
[REDACTED]					Project Name / ID: <u>HEMP-MB FULL SPEC B1</u>							H0010 - Potency Cannabis (Basic-Expanded)						
[REDACTED]					Cannabis Type (select if applicable): <u>Industrial</u>							H0008 - Residual Solvents (Cannabis - Oregon)						
[REDACTED]					Pick-Up Details							M075 - E. coli/Coliform Count (EC) Petrifilm						
[REDACTED]					Pick-Up Location Name: <u>Northwest Natural Goods</u>							M283 - RAPID Yeast and Mold Count (RYM) Petrifilm						
[REDACTED]					Receipt Information													
[REDACTED]					Pre-Log Storage: <u>Canna Shelves</u>													
[REDACTED]					Sample Condition: <u>Satisfactory</u>													
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size													
1	HEMP-MB FULL SPEC B1	Cannab no d Ed b e	20 each	mg/g & mg/serv ng	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

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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


 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



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 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
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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.