



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



**Report Number:** 23-009099/D002.R000  
**Report Date:** 08/10/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/02/23 11:29

**Customer:** NW Natural Goods  
**Product identity:** HEMP - PR 0056  
**Client/Metric ID:** .  
**Laboratory ID:** 23-009099-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.163		mg/4g		CBD-Total per Serving Size 20.6 mg/4g
CBD per 4g	20.6		mg/4g		
CBG per 4g	10.9		mg/4g		THC-Total per Serving Size <LOQ
(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 - PR 0056

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-009099-0001

**Evidence of Cooling:** No

**Temp:** 22.4

**Relinquished by:** ramos

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>		Units mg/se Batch: 2309755		Analyze: 8/4/23 7:53:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.163		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	20.6		mg/4g	0.129		
CBD-A per 4g	< LOQ		mg/4g	0.129		
CBD-Total per 4g	20.6		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	0.240		
CBE per 4g	< LOQ		mg/4g	0.129		
CBG per 4g	10.9		mg/4g	0.129		
CBG-A per 4g	< LOQ		mg/4g	0.129		
CBG-Total per 4g	10.9		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	0.242		
CBN per 4g	< LOQ		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		
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.129		
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.257		
Δ8-THC per 4g	< LOQ		mg/4g	0.129		
Δ9-THC per 4g	< LOQ		mg/4g	0.129		
delta-9-THCP 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	31.6		mg/4g			



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2309664	08/05/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2309664	08/05/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2309663	08/05/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2309663	08/05/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** Method: Residual Solvents by GC/MS<sup>B</sup> Units µg/g Batch 2309724 Analyze 08/04/23 12:37 PM

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

**Pesticides** Method: AOAC 2007.01 & EN 15662 (mod)<sup>B</sup> Units mg/kg Batch 2309848 Analyze 08/09/23 12:32 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 <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0181	2309845	08/08/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0181	2309845	08/08/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0181	2309845	08/08/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00906	2309845	08/08/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2309695	08/03/23 AOAC 925.10 (mod.) <sup>‡</sup>		
Water Activity	0.697		Aw	0.030	2309682	08/03/23 AOAC 978.18 <sup>‡</sup>		



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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.

<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 = 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  
Chain of Custody

Northwest-Natural-  
Goods-1690982122

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1608

	<b>Project Information</b> Project Name: <u>HEMP-PR-0056</u> PO Number: <u>NA</u> Turnaround Time: <u>2 Business Days (Req. For Micro Testing) Standard</u> Samples Delivered to Laboratory: <u>Schedule Pick-Up</u> Cannable Type: <u>Industrial</u>		Testing						
			H0100 Potency Cannabis/Edible - Extended Profile	F2020 Pesticides - Multi-Pesticide Profile	H0100 Pesticidal Solvents - CR	H0100 Heavy Metals Profile CR (As, Cd, Pb & Hg)	PC05 Total Coliforms - Excat	PC05 Yeast and Mold	N180 Moisture and Loss on Drying
#	Sample Name	Material	Amount Provided						
1	HEMP-PR-0056	Edible	20 units for sale	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp, °C	Received By	Date	Time	Received Temp, °C	Evidence of Cooling?
<i>Kristen Johnson</i>	8/2/2023	06:15		<i>BR</i>	8/2/2023	10:13		<i>No</i>
<i>BR</i>	8/2/2023	10:41	22.4	<i>rb</i>	8/2/2023	11:29		<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

P: (503) 254-1794 | Fax: (503) 254-1402  
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Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

Laboratory Quality Control Results

Residual Solvents				Batch D: 2309724					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		493	584	µg/g	84.4	60	120
Isobutane	ND	< 200		654	767	µg/g	85.3	60	120
Butane	ND	< 200		629	782	µg/g	80.4	60	120
2,2 Dimethylpropane	ND	< 200		776	939	µg/g	82.6	60	120
Methanol	ND	< 200		1770	1640	µg/g	107.9	60	120
Ethylene Oxide	ND	< 30		56.3	57.1	µg/g	98.6	60	120
2 Methylbutane	ND	< 200		1470	1600	µg/g	91.9	60	120
Pentane	ND	< 200		1520	1620	µg/g	93.8	60	120
Ethanol	ND	< 200		1770	1610	µg/g	109.9	70	130
Ethyl Ether	ND	< 200		1530	1610	µg/g	95.0	60	120
2,2 Dimethylbutane	ND	< 30		162	168	µg/g	96.4	60	120
Acetone	ND	< 200		1590	1620	µg/g	98.1	60	120
2 Propanol	ND	< 200		1860	1600	µg/g	116.3	60	120
Ethyl Formate	ND	< 500		1410	1600	µg/g	88.1	70	130
Acetonitrile	ND	< 100		456	484	µg/g	94.2	60	120
Methyl Acetate	ND	< 500		1580	1610	µg/g	98.1	70	130
2,3 Dimethylbutane	ND	< 30		159	162	µg/g	98.1	60	120
Dichloromethane	ND	< 60		480	483	µg/g	99.4	60	120
2 Methylpentane	ND	< 30		172	174	µg/g	98.9	60	120
M BE	ND	< 500		1560	1610	µg/g	96.9	70	130
3 Methylpentane	ND	< 30		171	168	µg/g	101.8	60	120
Hexane	ND	< 30		161	168	µg/g	95.8	60	120
1 Propanol	ND	< 500		1760	1600	µg/g	110.0	70	130
Methylethylketone	ND	< 500		1610	1620	µg/g	99.4	70	130
Ethyl acetate	ND	< 200		1660	1600	µg/g	103.8	60	120
2 Butanol	ND	< 200		1850	1600	µg/g	115.6	60	120
etrahydrofuran	ND	< 100		502	514	µg/g	97.7	60	120
Cyclohexane	ND	< 200		1600	1600	µg/g	100.0	60	120
2 methyl 1 propanol	ND	< 500		1830	1610	µg/g	113.7	70	130
Benzene	ND	< 1		4.19	5.12	µg/g	81.8	60	120
Isopropyl Acetate	ND	< 200		1660	1620	µg/g	102.5	60	120
Heptane	ND	< 200		1550	1610	µg/g	96.3	60	120
1 Butanol	ND	< 500		1820	1600	µg/g	113.8	70	130
Propyl Acetate	ND	< 500		1610	1600	µg/g	100.6	70	130
1,4 Dioxane	ND	< 100		483	493	µg/g	98.0	60	120
2 Ethoxyethanol	ND	< 30		184	163	µg/g	112.9	60	120
Methylisobutylketone	ND	< 500		1650	1600	µg/g	103.1	70	130
3 Methyl 1 butanol	ND	< 500		1800	1610	µg/g	111.8	70	130
Ethylene Glycol	ND	< 200		280	483	µg/g	58.0	60	120 Q6
oluene	ND	< 100		487	493	µg/g	98.8	60	120
Isobutyl Acetate	ND	< 500		1610	1600	µg/g	100.6	70	130
1 Pentanol	ND	< 500		1870	1600	µg/g	116.9	70	130
Butyl Acetate	ND	< 500		1620	1600	µg/g	101.3	70	130
Ethylbenzene	ND	< 200		966	969	µg/g	99.7	60	120
m,p Xylene	ND	< 200		964	968	µg/g	99.6	60	120
o Xylene	ND	< 200		985	976	µg/g	100.9	60	120
Cumene	ND	< 30		166	162	µg/g	102.5	60	120
Anisole	ND	< 500		1550	1610	µg/g	96.3	70	130
DMSO	ND	< 500		1340	1610	µg/g	83.2	70	130
1,2 dimethoxyethane	ND	< 50		159	164	µg/g	97.0	70	130
riethylamine	ND	< 500		1350	1600	µg/g	84.4	70	130
N,N dimethylformamide	ND	< 150		493	484	µg/g	101.9	70	130
N,N dimethylacetamide	ND	< 150		475	489	µg/g	97.1	70	130
Pyridine	ND	< 50		159	172	µg/g	92.4	70	130
Sulfolane	ND	< 50		143	163	µg/g	87.7	70	130
1,2 Dichloroethane	ND	< 1		1.06	1	µg/g	106.0	70	130
Chloroform	ND	< 1		1.1	1	µg/g	110.0	70	130
richloroethylene	ND	< 1		1.26	1	µg/g	126.0	70	130
1,1 Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70	130



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Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

QC- Sample Duplicate

Sample ID: 23-008930-0001

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	
M BE	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	
oluene	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	
richloroethylene	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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Revision 4 Documen D 7148  
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2309755

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0311	0.0311	%	100	80.0	- 120	Acceptable	
CBDV	2	0.0310	0.0307	%	101	80.0	- 120	Acceptable	
CBE	2	0.0351	0.0349	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0351	0.0336	%	104	90.0	- 110	Acceptable	
CBGA	1	0.0352	0.0336	%	105	80.0	- 120	Acceptable	
CBG	1	0.0349	0.0344	%	101	80.0	- 120	Acceptable	
CBD	1	0.0352	0.0352	%	100	90.0	- 110	Acceptable	
THCV	2	0.0220	0.0222	%	98.8	80.0	- 120	Acceptable	
d8THCV	2	0.0278	0.0272	%	102	80.0	- 120	Acceptable	
THCVA	2	0.0312	0.0310	%	101	80.0	- 120	Acceptable	
CBN	1	0.0368	0.0351	%	105	80.0	- 120	Acceptable	
exo-THC	2	0.0317	0.0311	%	102	80.0	- 120	Acceptable	
d9THC	1	0.0350	0.0345	%	102	90.0	- 110	Acceptable	
d8THC	1	0.0328	0.0325	%	101	90.0	- 110	Acceptable	
9S-d10THC	1	0.0356	0.0354	%	101	80.0	- 120	Acceptable	
CBL	2	0.0313	0.0311	%	101	80.0	- 120	Acceptable	
9R-d10THC	1	0.0335	0.0323	%	104	80.0	- 120	Acceptable	
CBC	2	0.0318	0.0319	%	99.7	80.0	- 120	Acceptable	
THCA	1	0.0347	0.0331	%	105	90.0	- 110	Acceptable	
CBCA	2	0.0319	0.0325	%	98.2	80.0	- 120	Acceptable	
CBLA	2	0.0499	0.0500	%	99.7	80.0	- 120	Acceptable	
d9THCP	2	0.0314	0.0323	%	97.2	80.0	- 120	Acceptable	
CBT	2	0.0311	0.0314	%	99.1	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBDV	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBE	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBDA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBGA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBG	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBD	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCV	<LOQ	0.00313	%	< 0.00313	Acceptable	
d8THCV	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCVA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBN	<LOQ	0.00313	%	< 0.00313	Acceptable	
exo-THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
d9THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
d8THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
9S-d10THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBL	<LOQ	0.00313	%	< 0.00313	Acceptable	
9R-d10THC	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBC	<LOQ	0.00313	%	< 0.00313	Acceptable	
THCA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBCA	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBLA	<LOQ	0.00313	%	< 0.00313	Acceptable	
d9THCP	<LOQ	0.00313	%	< 0.00313	Acceptable	
CBT	<LOQ	0.00313	%	< 0.00313	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:** 23-009099/D002.R000  
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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/02/23 11:29

Revision 4 Documen D 7148  
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2309755						
Sample Duplicate		Sample ID: 23-009084-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBD	0.215	0.217	0.00333	%	0.750	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d9THC	0.207	0.207	0.00333	%	0.134	< 20	Acceptable	
d8THC	0.0578	0.0586	0.00333	%	1.46	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00333	%	NA	< 20	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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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.