



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

**Customer:** NW Natural Goods  
**Product identity:** HEMP - PR 0079  
**Client/Metric ID:** .  
**Laboratory ID:** 24-005312-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	19.6		mg/4g		CBD-Total per Serving Size 19.6 mg/4g
CBG per 4g	10.6		mg/4g		
					Delta-9-THC-Total per <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.



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

**Customer:** NW Natural Goods

**Product identity:** HEMP - PR 0079  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-005312-0001  
**Evidence of Cooling:** No  
**Temp:** 25 °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: 2403787	Analyze: 5/16/24 10:56:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	< LOQ		mg/4g	0.124	
CBC-A per 4g	< LOQ		mg/4g	0.124	
CBC-Total per 4g	< LOQ		mg/4g	0.232	
CBD per 4g	19.6		mg/4g	0.124	
CBD-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.124	
CBD-Total per 4g <sup>1</sup>	19.6		mg/4g	0.232	
CBDV per 4g	< LOQ		mg/4g	0.124	
CBDV-A per 4g	< LOQ		mg/4g	0.124	
CBDV-Total per 4g	< LOQ		mg/4g	0.231	
CBE per 4g	< LOQ		mg/4g	0.124	
CBG per 4g	10.6		mg/4g	0.124	
CBG-A per 4g	< LOQ		mg/4g	0.124	
CBG-Total per 4g	10.6		mg/4g	0.231	
CBL per 4g	< LOQ		mg/4g	0.124	
CBL-A per 4g	< LOQ		mg/4g	0.124	
CBL-Total per 4g	< LOQ		mg/4g	0.232	
CBN per 4g	< LOQ		mg/4g	0.124	
CBT per 4g	< LOQ		mg/4g	0.124	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.124	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.124	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.247	
Δ8-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.124	
Δ8-THCV per 4g	< LOQ		mg/4g	0.124	
Δ9-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.124	
Δ9-THC-Total per 4g	< LOQ		mg/4g	0.232	
Δ9-THCP per 4g	< LOQ		mg/4g	0.124	
Δ9-THCV per 4g	< LOQ		mg/4g	0.124	
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.124	
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.232	
exo-THC per 4g	< LOQ		mg/4g	0.124	
THC-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.124	
Total Cannabinoids per 4g	30.2		mg/4g		



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2403741	05/18/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2403741	05/18/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2403742	05/19/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2403742	05/19/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2403904 Analyze 05/21/24 02:00 PM**

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

**Pesticides Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2403916 Analyze 05/22/24 02:37 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>1</sup>	< LOQ	0.200	mg/kg	0.0194	2403842	05/17/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium <sup>1</sup>	< LOQ	0.200	mg/kg	0.0194	2403842	05/17/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead <sup>1</sup>	< LOQ	0.500	mg/kg	0.0194	2403842	05/17/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury <sup>1</sup>	< LOQ	0.100	mg/kg	0.00972	2403842	05/17/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.1		g/100g	0.10	2403803	05/16/24 AOAC 925.10 (mod.)		
Water Activity	0.647		Aw	0.030	2403806	05/17/24 AOAC 978.18		



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

**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<sub>w</sub> = 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:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09



P2320 Multi-Residue Pesticide Profile  
 Cannabis

Analyte	LOQ (mg/kg)
2,4-D	0.1
Abamectin	0.1
Acephate	0.2
Acequinocyl	0.2
Acetamiprid	0.1
Acetochlor	0.2
Acrinathrin	0.1
Alachlor	0.1
Aldicarb	0.1
Aldoxycarb	0.1
Aldrin	0.1
Ametoctradin	0.1
Ametryn	0.1
Anilazine	0.1
Aspon	0.1
Asulam	0.1
Atrazine	0.1
Atrazine-desethyl	0.1
Azinphos-ethyl	0.1
Azinphos-methyl	0.1
Azoxystrobin	0.1
Benalaxyl	0.1
Bendiocarb	0.1
Benoxacor	0.1
Bensulide	0.1
Bentazon	0.1
Bifenazate	0.1
Bifenox	0.1
Bifenthrin	0.1
Binapacryl	0.1
Boscalid	0.1
Bromacil	0.1
Bromophos-ethyl	0.1
Bromopropylate	0.1
Bromoxynil	0.1
Bupirimate	0.1
Buprofezin	0.1
Butachlor	0.1
Butylate	0.1
Cadusafos	0.1
Captan	0.2
Carbaryl	0.1
Carbendazim	0.1
Carbofuran	0.1
Carbofuran 3-hydroxy	0.1
Carbophenothion	0.1
Carbophenothion-methyl	0.1
Carboxin	0.1

Analyte	LOQ (mg/kg)
Chlorantraniliprol	0.1
Chlordane, cis-	0.1
Chlordane, trans-	0.1
Chlorfenapyr	0.1
Chlorfenvinphos	0.1
Chlorobenzilate	0.1
Chlorpyrifos-ethyl	0.1
Chlorpyrifos-methyl	0.1
Chlorthal-dimethyl (Dacthal)	0.1
Clethodim	0.1
Clethodim sulfone	0.1
Clethodim sulfoxide	0.1
Clofentezine	0.1
Clomazone	0.1
Clopyralid	0.1
Clothianidin	0.1
Coumaphos	0.1
Crotoxyphos	0.1
Cyanofenphos	0.1
Cyanophos	0.1
Cyantraniliprole	0.1
Cyazofamid	0.1
Cyfluthrin	0.1
Cyhalothrin, lambda	0.1
Cymoxanil	0.1
Cypermethrin	0.1
Cyprodinil	0.1
DDD, o,p'-	0.1
DDD, p,p'-	0.1
DDE, o,p'-	0.1
DDE, p,p'-	0.1
DDT, o,p'-	0.1
DDT, p,p'-	0.1
DEET	0.1
Deltamethrin	0.1
Demeton-S	0.1
Demeton-s-methyl	0.1
Demeton-S-methyl-sulfone	0.1
Desmedipham	0.1
Diazinon	0.1
Dicamba	0.1
Dichlofenthion	0.1
Dichlofluanid	0.1
Dichlorbenzamid	0.1
Dichlorvos	0.1
Diclofop	0.1
Diclofop-methyl	0.1
Dicrotophos	0.1

Analyte	LOQ (mg/kg)
Dieldrin	0.1
Diethofencarb	0.1
Difenoconazol	0.1
Diffubenzuron	0.1
Diffufenzopyr	0.1
Dimethenamid	0.1
Dimethoat	0.1
Dimethomorph	0.1
Dinoseb	0.1
Dinotefuran	0.1
Dioxathion	0.1
Diphenamid	0.1
Diphenylamine (DPA)	0.1
Disulfoton	0.1
Disulfoton-sulfone	0.1
Disulfoton-Sulfoxide	0.1
Diuron	0.1
DNOC	0.1
Edifenphos	0.1
Endosulfan (alpha isomer)	0.1
Endosulfan (beta isomer)	0.1
Endosulfan-sulfate	0.1
Endrin	0.1
EPN	0.1
EPTC	0.1
Esfenvalerate/Fenvalerate	0.1
Ethiofencarb	0.1
Ethion	0.1
Ethofumesate	0.1
Ethoprophos	0.1
Etofenprox	0.1
Etoxazole	0.1
Etrimfos	0.1
Famoxadone	0.1
Famphur	0.1
Fenamiphos	0.1
Fenamiphos-Sulfone	0.1
Fenamiphos-Sulfoxide	0.1
Fenazaquin	0.1
Fenbuconazole	0.1
Fenhexamid	0.1
Fenobucarb	0.1
Fenoxycarb	0.1
Fenpropathrin	0.1
Fensulfothion	0.1
Fenthion	0.1
Fenuron	0.1
Fipronil	0.1

LOQ= Limit of Quantitation  
 mg/kg= milligram per kilogram (ppm)

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



P2320 Multi-Residue Pesticide Profile  
Cannabis

Analyte	LOQ (mg/kg)
Flonicamid	0.1
Fluazifop	0.1
Fluazinam	0.1
Flucythrinate	0.1
Fludioxonil	0.1
Flufenacet	0.1
Flumioxazin	0.1
Fluopicolide	0.1
Fluopyram	0.1
Fluoxastrobin	0.1
Flupyradifurone	0.1
Fluridone	0.1
Fluroxypyr	0.1
Fluthiacet-methyl	0.1
Flutolanil	0.1
Flutriafol	0.1
Fluvalinate	0.1
Fluxapyroxad	0.1
Fomesafen	0.1
Formetanate	0.1
Furathiocarb	0.1
Haloxypop	0.1
Heptachlor	0.1
Heptachlor epoxide	0.1
Hexaconazole	0.1
Hexazinone	0.1
Hexythiazox	0.1
Hydropene	0.1
Imazalil	0.1
Imazethapyr	0.1
Imidacloprid	0.1
Indaziflam	0.1
Indoxacarb	0.1
Iprobenfos	0.1
Iprodion	0.1
Isobenzan	0.1
Isofenphos	0.1
Isofenphos-methyl	0.1
Isofenphos-oxon	0.1
Isoprocarb	0.1
Isoprotiolane	0.1
Isoproturon	0.1
Isoxaben	0.1
Kresoxim-methyl	0.1
Lindane	0.1
Linuron	0.1
Malaoxon	0.1
Malathion	0.1

Analyte	LOQ (mg/kg)
Mandipropamid	0.1
MCPA	0.1
MCPB	0.1
MCCP	0.1
Mecabam	0.1
Mepanipirim	0.1
Mesotrione	0.1
Metalaxyl	0.1
Methamidophos	0.1
Methiocarb	0.1
Methiocarb sulfone	0.1
Methiocarb sulfoxide	0.1
Methomyl	0.1
Methoxyfenozide	0.1
Metolachlor	0.1
Metolcarb	0.1
Metrafenone	0.1
Mevinphos	0.1
MGK 264	0.1
Molinate	0.1
Monocrotophos	0.1
Monolinuron	0.1
Myclobutanil	0.1
Naled	0.1
Napropamide	0.1
Neburon	0.1
Norflurazon	0.1
Novaluron	0.1
Omethoat	0.1
Oryzalin	0.1
Oxadiazon	0.1
Oxadixyl	0.1
Oxamyl	0.1
Oxamyl-oxime	0.1
Oxychlorane	0.1
Oxydemeton-Methyl	0.1
Oxyfluorfen	0.1
Paclbutrazol	0.1
Paraoxon-ethyl	0.1
Paraoxon-methyl	0.1
Parathion-methyl	0.1
Penconazole	0.1
Pendimethalin	0.1
Penflufen	0.1
Penthiopyrad	0.1
Permethrin	0.1
Perthane	0.1
Phenmedipham	0.1

Analyte	LOQ (mg/kg)
Phenothrin	0.1
Phenthoate	0.1
Phorate	0.1
Phorate-Sulfone	0.1
Phorate-Sulfoxide	0.1
Phosalone	0.1
Phosmet	0.1
Phosphamidon	0.1
Phoxim	0.1
Pinoxaden	0.1
Piperonyl Butoxide	0.1
Pirimicarb	0.1
Pirimiphos-ethyl	0.1
Pirimiphos-methyl	0.1
Prallethrin	0.1
Prochloraz	0.1
Procymidone	0.1
Profenofos	0.1
Promecarb	0.1
Prometon	0.1
Prometryn	0.1
Propachlor	0.1
Propamocarb	0.1
Propanil	0.1
Propazine	0.1
Propetamophos	0.1
Propham	0.1
Propiconazole	0.1
Propoxur	0.1
Propyzamide	0.1
Prothiofos	0.1
Pyraclostrobin	0.1
Pyraflufen Ethyl	0.1
Pyrazophos	0.1
Pyrethrin	0.1
Pyridaben	0.1
Pyrimethanil	0.1
Pyriproxifen	0.1
Pyroxasulfone	0.1
Pyroxsulam	0.1
Quinalphos	0.1
Quinclorac	0.1
Quinoxifen	0.1
Quintozene(PCNB)	0.2
Quizalofop	0.1
Resmethrin	0.1
Rotenone	0.1
Saflufenacil	0.1

LOQ= Limit of Quantitation  
mg/kg= milligram per kilogram (ppm)



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



**Report Number:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09



P2320 Multi-Residue Pesticide Profile  
 Cannabis

Analyte	LOQ (mg/kg)
Sebuthylazin	0.1
Sethoxydim	0.1
Simazine	0.1
Simetryn	0.1
Spinetoram J/L	0.1
Spinosyn A/D	0.1
Spirodiclofen	0.1
Spiromesifen	0.1
Spirotetramat	0.1
Spiroxamine	0.1
Sulfentrazone	0.1
Sulfotep	0.1
Sulfoxafflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbuthylazine	0.1
Terbutryn	0.1
Tetrachlorvinphos	0.1
Tetraconazole	0.1
Tetramethrin	0.1
Thiabendazol	0.1
Thiabendazol-5-hydroxy	0.1
Thiacloprid	0.1
Thiamethoxam	0.1
Thiobencarb	0.1
Thiodicarb	0.1
Thiometon	0.1
Thiophanate-methyl	0.2
Tolfenpyrad	0.1
Tolyfluanid	0.1
Triadimefon	0.1
Triadimenol	0.1
Triazophos	0.1
Trifloxystrobin	0.1
Triflumizole	0.1
Triticonazole	0.1
Zoxamid	0.1

LOQ= Limit of Quantitation  
 mg/kg= milligram per kilogram (ppm)

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:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09



Hemp & Cannabis  
 Chain of Custody

Northwest-Natural-  
 Goods-1715724357

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT1508

Company Details		Project Details				Testing						
Company: <u>Northwest Natural Goods</u>		Turnaround Time: <u>5 Business Days</u> Req. For Micro Testing   Standard				H0010 - Potency Cannabis (Basel-Expanded)	H0008 - Residual Solvents (Cannabis - Oregon)	P2320 - Multi-Residue Pesticide Profile (Cannabis)	N0300 - Water Activity & Moisture (as Loss on Drying) Food	H0019 - Cannabis Heavy Metals Profile OR	M283 - RAPID Yeast and Mold Count (RYM) Petrifilm	M076 - E. coli/Coliform Count (EC) Petrifilm
[Redacted]		Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u>										
[Redacted]		Compliance: <u>Compliance</u>										
[Redacted]		Project Name / ID: <u>HEMP - PR0079</u>										
[Redacted]		Cannabis Type (select if applicable): <u>Industrial</u>										
[Redacted]		Pick-Up Details										
[Redacted]		Pick-Up Location Name: <u>Northwest Natural Goods</u>										
[Redacted]		Receipt Information										
[Redacted]		Pre-Log Storage: <u>Canna Shelves</u>										
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size							
1	HEMP - PR 0079	Cannabinoil 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	05/14/2024	15:05	Temp., °C	BR	05/15/2024	10:24	25	No
BR	05/15/2024	10:53	21.1	NR	05/15/2024	12:09	25	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:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

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

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2403787**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0285	0.0351	%	81.3	80.0	- 120	Acceptable		
CBDV	2	0.0324	0.0333	%	97.3	80.0	- 120	Acceptable		
CBE	2	0.0323	0.0309	%	104	80.0	- 120	Acceptable		
CBDA	1	0.0295	0.0302	%	97.7	90.0	- 110	Acceptable		
CBGA	1	0.0294	0.0298	%	98.5	80.0	- 120	Acceptable		
CBG	1	0.0284	0.0337	%	84.2	80.0	- 120	Acceptable		
CBD	1	0.0308	0.0329	%	93.5	90.0	- 110	Acceptable		
THCV	2	0.0331	0.0329	%	101	80.0	- 120	Acceptable		
d8THCV	2	0.0321	0.0353	%	90.9	80.0	- 120	Acceptable		
THCVA	2	0.0310	0.0312	%	99.3	80.0	- 120	Acceptable		
CBN	1	0.0293	0.0314	%	93.4	80.0	- 120	Acceptable		
exo-THC	2	0.0318	0.0324	%	97.9	80.0	- 120	Acceptable		
d9THC	1	0.0311	0.0322	%	96.5	90.0	- 110	Acceptable		
d8THC	1	0.0301	0.0315	%	95.3	90.0	- 110	Acceptable		
9S-d10THC	1	0.0305	0.0316	%	96.4	80.0	- 120	Acceptable		
CBL	2	0.0295	0.0324	%	90.9	80.0	- 120	Acceptable		
9R-d10THC	1	0.0293	0.0309	%	95.1	80.0	- 120	Acceptable		
CBC	2	0.0304	0.0342	%	88.8	80.0	- 120	Acceptable		
THCA	1	0.0298	0.0298	%	99.9	90.0	- 110	Acceptable		
CBCA	2	0.0319	0.0330	%	96.7	80.0	- 120	Acceptable		
CBLA	2	0.0323	0.0332	%	97.1	80.0	- 120	Acceptable		
d9THCP	2	0.0313	0.0318	%	98.6	80.0	- 120	Acceptable		
CBT	2	0.0315	0.0344	%	91.5	80.0	- 120	Acceptable		

Method Blank							
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBDV	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBE	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBDA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBGA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBG	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBD	<LOQ	0.00311	%	< 0.00311	Acceptable		
THCV	<LOQ	0.00311	%	< 0.00311	Acceptable		
d8THCV	<LOQ	0.00311	%	< 0.00311	Acceptable		
THCVA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBN	<LOQ	0.00311	%	< 0.00311	Acceptable		
exo-THC	<LOQ	0.00311	%	< 0.00311	Acceptable		
d9THC	<LOQ	0.00311	%	< 0.00311	Acceptable		
d8THC	<LOQ	0.00311	%	< 0.00311	Acceptable		
9S-d10THC	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBL	<LOQ	0.00311	%	< 0.00311	Acceptable		
9R-d10THC	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBC	<LOQ	0.00311	%	< 0.00311	Acceptable		
THCA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBCA	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBLA	<LOQ	0.00311	%	< 0.00311	Acceptable		
d9THCP	<LOQ	0.00311	%	< 0.00311	Acceptable		
CBT	<LOQ	0.00311	%	< 0.00311	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:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09

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

**Laboratory Quality Control Results**

AOAC 2015 V98-6		Batch ID: 2403787						
Sample Duplicate		Sample ID: 24-005303-0003						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBG	0.770	0.777	0.00319	%	0.857	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00319	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00319	%	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: 2403904			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		576	584	µg/g	98.6 60 - 120
Isobutane	ND	< 200		733	767	µg/g	95.6 60 - 120
Butane	ND	< 200		748	782	µg/g	95.7 60 - 120
2,2-Dimethylpropane	ND	< 200		906	939	µg/g	96.5 60 - 120
Methanol	ND	< 200		1580	1600	µg/g	98.8 60 - 120
Ethylene Oxide	ND	< 30		56	57.1	µg/g	98.1 60 - 120
2-Methylbutane	ND	< 200		1600	1600	µg/g	100.0 60 - 120
Pentane	ND	< 200		1610	1610	µg/g	100.0 60 - 120
Ethanol	ND	< 200		1600	1600	µg/g	100.0 70 - 130
Ethyl Ether	ND	< 200		1600	1600	µg/g	100.0 60 - 120
2,2-Dimethylbutane	ND	< 30		158	162	µg/g	97.5 60 - 120
Acetone	ND	< 200		1590	1600	µg/g	99.4 60 - 120
2-Propanol	ND	< 200		1610	1600	µg/g	100.6 60 - 120
Ethyl Formate	ND	< 500		1560	1630	µg/g	95.7 70 - 130
Acetonitrile	ND	< 100		478	487	µg/g	98.2 60 - 120
Methyl Acetate	ND	< 500		1590	1610	µg/g	98.8 70 - 130
2,3-Dimethylbutane	ND	< 30		153	161	µg/g	95.0 60 - 120
Dichloromethane	ND	< 60		474	483	µg/g	98.1 60 - 120
2-Methylpentane	ND	< 30		152	164	µg/g	92.7 60 - 120
MTBE	ND	< 500		1640	1610	µg/g	101.9 70 - 130
3-Methylpentane	ND	< 30		155	160	µg/g	96.9 60 - 120
Hexane	ND	< 30		166	171	µg/g	97.1 60 - 120
1-Propanol	ND	< 500		1740	1610	µg/g	108.1 70 - 130
Methylethylketone	ND	< 500		1680	1610	µg/g	104.3 70 - 130
Ethyl acetate	ND	< 200		1630	1620	µg/g	100.6 60 - 120
2-Butanol	ND	< 200		1640	1600	µg/g	102.5 60 - 120
Tetrahydrofuran	ND	< 100		483	481	µg/g	100.4 60 - 120
Cyclohexane	ND	< 200		1620	1610	µg/g	100.6 60 - 120
2-methyl-1-propanol	ND	< 500		1820	1610	µg/g	113.0 70 - 130
Benzene	ND	< 1		5.29	5.17	µg/g	102.3 60 - 120
Isopropyl Acetate	ND	< 200		1630	1600	µg/g	101.9 60 - 120
Heptane	ND	< 200		1630	1620	µg/g	100.6 60 - 120
1-Butanol	ND	< 500		1800	1610	µg/g	111.8 70 - 130
Propyl Acetate	ND	< 500		1800	1610	µg/g	111.8 70 - 130
1,4-Dioxane	ND	< 100		505	497	µg/g	101.6 60 - 120
2-Ethoxyethanol	ND	< 30		163	160	µg/g	101.9 60 - 120
Methylisobutylketone	ND	< 500		1830	1620	µg/g	113.0 70 - 130
3-Methyl-1-butanol	ND	< 500		1940	1610	µg/g	120.5 70 - 130
Ethylene Glycol	ND	< 200		402	483	µg/g	83.2 60 - 120
Toluene	ND	< 100		499	482	µg/g	103.5 60 - 120
Isobutyl Acetate	ND	< 500		1820	1620	µg/g	112.3 70 - 130
1-Pentanol	ND	< 500		1940	1610	µg/g	120.5 70 - 130
Butyl Acetate	ND	< 500		1960	1650	µg/g	118.8 70 - 130
Ethylbenzene	ND	< 200		1010	970	µg/g	104.1 60 - 120
m,p-Xylene	ND	< 200		1010	963	µg/g	104.9 60 - 120
o-Xylene	ND	< 200		1000	961	µg/g	104.1 60 - 120
Cumene	ND	< 30		171	164	µg/g	104.3 60 - 120
Anisole	ND	< 500		2000	1610	µg/g	124.2 70 - 130
DMSO	ND	< 500		1770	1610	µg/g	109.9 70 - 130
1,2-dimethoxyethane	ND	< 50		181	170	µg/g	106.5 70 - 130
Triethylamine	ND	< 500		1340	1620	µg/g	82.7 70 - 130
N,N-dimethylformamide	ND	< 150		625	499	µg/g	125.3 70 - 130
N,N-dimethylacetamide	ND	< 150		629	489	µg/g	128.6 70 - 130
Pyridine	ND	< 50		183	167	µg/g	109.6 70 - 130
Sulfolane	ND	< 50		189	169	µg/g	111.8 70 - 130
1,2-Dichloroethane	ND	< 1		1.08	1	µg/g	108.0 70 - 130
Chloroform	ND	< 1		1.19	1	µg/g	119.0 70 - 130
Trichloroethylene	ND	< 1		1.09	1	µg/g	109.0 70 - 130
1,1-Dichloroethane	ND	< 1		1.23	1	µg/g	123.0 70 - 130



QC- Sample Duplicate

Sample ID: 24-005312-0001

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	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:** 24-005312/D001.R000  
**Report Date:** 05/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/15/24 12:09





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.