



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

**Customer:** NW Natural Goods  
**Product identity:** HEMP - EB 0112  
**Client/Metric ID:** .  
**Laboratory ID:** 24-003280-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.182		mg/4g		CBD-Total per Serving Size 23.3 mg/4g
CBD per 4g	23.3		mg/4g		
CBDV per 4g	0.184		mg/4g		THC-Total per Serving Size <LOQ
CBE per 4g	0.660		mg/4g		(Reported in milligrams per serving)
CBG per 4g	0.126		mg/4g		
CBN per 4g	4.92		mg/4g		
CBT per 4g	0.532		mg/4g		

**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:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

**Customer:** NW Natural Goods

**Product identity:** HEMP - EB 0112

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 24-003280-0001

**Evidence of Cooling:** No

**Temp:** 25 °C

**Serving Size #1:** 4 g

## Sample Results

Potency per 4g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2402383	Analyze: 3/27/24 7:14:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.182		mg/4g	0.125	
CBC-A per 4g	< LOQ		mg/4g	0.125	
CBC-Total per 4g	< LOQ		mg/4g	0.234	
CBD per 4g	23.3		mg/4g	0.125	
CBD-A per 4g <sup>±</sup>	< LOQ		mg/4g	0.125	
CBD-Total per 4g <sup>±</sup>	23.3		mg/4g	0.234	
CBDV per 4g	0.184		mg/4g	0.125	
CBDV-A per 4g	< LOQ		mg/4g	0.125	
CBDV-Total per 4g	< LOQ		mg/4g	0.233	
CBE per 4g	0.660		mg/4g	0.125	
CBG per 4g	0.126		mg/4g	0.125	
CBG-A per 4g	< LOQ		mg/4g	0.125	
CBG-Total per 4g	< LOQ		mg/4g	0.233	
CBL per 4g	< LOQ		mg/4g	0.125	
CBL-A per 4g	< LOQ		mg/4g	0.125	
CBL-Total per 4g	< LOQ		mg/4g	0.234	
CBN per 4g	4.92		mg/4g	0.125	
CBT per 4g	0.532		mg/4g	0.125	
Δ8-THCV per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.249	
Δ8-THC per 4g <sup>±</sup>	< LOQ		mg/4g	0.125	
Δ9-THC per 4g <sup>±</sup>	< LOQ		mg/4g	0.125	
delta-9-THCP per 4g	< LOQ		mg/4g	0.125	
exo-THC per 4g	< LOQ		mg/4g	0.125	
THC-A per 4g <sup>±</sup>	< LOQ		mg/4g	0.125	
THC-Total per 4g	< LOQ		mg/4g	0.234	
THCV per 4g	< LOQ		mg/4g	0.125	
THCV-A per 4g	< LOQ		mg/4g	0.125	
THCV-Total per 4g	< LOQ		mg/4g	0.234	
Total Cannabinoids per 4g	29.9		mg/4g		



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402339	03/29/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402339	03/29/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402340	03/30/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402340	03/30/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by GC/MS<sup>b</sup> Units µg/g Batch 2402407 Analyze 03/29/24 09:48 AM**

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)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA) <sup>‡</sup>	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone <sup>‡</sup>	< LOQ	5000	200	pass		Acetonitrile <sup>‡</sup>	< LOQ	410	100	pass	
Benzene <sup>‡</sup>	< LOQ	2.00	1.00	pass		Butanes (sum)	< 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)	< 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	< LOQ		200		
Methanol <sup>‡</sup>	< LOQ	3000	200	pass		Methylene chloride <sup>‡</sup>	< LOQ	600	60.0	pass	
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< 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	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane <sup>‡</sup>	< 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 2402430 Analyze 04/02/24 11:14 AM**

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

**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0346	2402389	03/28/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0346	2402389	03/28/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0346	2402389	03/28/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.0173	2402389	03/28/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.3		g/100g	0.10	2402387	03/27/24 AOAC 925.10 (mod.)		
Water Activity	0.688		Aw	0.030	2402368	03/27/24 AOAC 978.18		



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

### 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



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03



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
Dichlofluandil	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
Diflubenzuron	0.1
Diflufenzopyr	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
Etozazole	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)



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03



P2320 Multi-Residue Pesticide Profile  
 Cannabis

Analyte	LOQ (mg/kg)
Fonicamid	0.1
Fluazifop	0.1
Fluazinam	0.1
Flucythrinate	0.1
Fludioxonil	0.1
Flufenacet	0.1
Flumioxazin	0.1
Flupicolide	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
Haloxypol	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
Isufenphos	0.1
Isufenphos-methyl	0.1
Isufenphos-oxon	0.1
Isoprocab	0.1
Isoprothiolane	0.1
Isoproturon	0.1
Isoxaben	0.1
Kresoxim-methyl	0.1
Lindane	0.1
Linuron	0.1
Malaonox	0.1
Malathion	0.1

Analyte	LOQ (mg/kg)
Mandipropamid	0.1
MCPA	0.1
MCPB	0.1
MCPP	0.1
Mecabarm	0.1
Mepanipyrim	0.1
Mesotrione	0.1
Metaxyl	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
Molinat	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
Paclobutrazol	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
Pyroxulam	0.1
Quinalphos	0.1
Quinclorac	0.1
Quinoxifen	0.1
Quintozene(PCNB)	0.2
Quizalofop	0.1
Resmethrin	0.1
Rotenone	0.1
Safufenacil	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:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03



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
Sulfoxaflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbutylazine	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
Thiodicarb	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)





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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03



Hemp & Cannabis  
Chain of Custody

Northwest-Natural-Goods-171409857

ORELAP ID: OR1000028 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   <u>Standard</u>				H008 - Residual Solvents (Cannabis - Oregon)	M075 - E. coli/Calforn Count (EQ) Petri. In	M633 - R04PFD Yeast and Mold Count (RMI) Petri. In	H0013 - Cannabis Heavy Metals Pro le CR	H0010 - Potency Cannabis (Base-Expanded)	P2320 - Multi-Residue Pesticide Pro le (Cannabis)	N3600 - Water Activity & Moisture (as Loss on Drying)   Food			
[Redacted]				Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u>													
[Redacted]				Compliance: <u>Compliance</u>													
[Redacted]				Project Name / ID: <u>HEMP - EB 012</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]				[Redacted]													
[Redacted]				[Redacted]													
[Redacted]				[Redacted]													
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size												
1	HEMP - EB 012	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?
<i>KRISTEN JOHNSON</i>	<i>03/25/2024</i>	<i>16:37</i>		<i>BR</i>	<i>03/26/2024</i>	<i>10:25</i>	<i>25.00</i>	<i>No</i>
<i>BR</i>	<i>03/26/2024</i>	<i>10:49</i>	<i>17.40</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  
[info.columbialaboratories.com](http://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:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2402383

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBVA	2	0.0329	0.0324	%	102	80.0 - 120	Acceptable	
CBV	2	0.0353	0.0346	%	102	80.0 - 120	Acceptable	
CBE	2	0.0351	0.0348	%	101	80.0 - 120	Acceptable	
CBDA	1	0.0321	0.0319	%	101	90.0 - 110	Acceptable	
CBSA	1	0.0317	0.0316	%	100	80.0 - 120	Acceptable	
CBG	1	0.0365	0.0366	%	99.7	80.0 - 120	Acceptable	
CBF	1	0.0354	0.0355	%	99.7	90.0 - 110	Acceptable	
THCV	2	0.0362	0.0356	%	102	80.0 - 120	Acceptable	
δ8THCV	2	0.0226	0.0226	%	99.7	80.0 - 120	Acceptable	
THCVA	2	0.0322	0.0317	%	102	80.0 - 120	Acceptable	
CBN	1	0.0333	0.0334	%	99.8	80.0 - 120	Acceptable	
exo-THC	2	0.0356	0.0355	%	100	80.0 - 120	Acceptable	
δ9THC	1	0.0364	0.0355	%	103	90.0 - 110	Acceptable	
δ8THC	1	0.0323	0.0339	%	95.3	90.0 - 110	Acceptable	
9SaTHC	1	0.0327	0.0333	%	98.1	80.0 - 120	Acceptable	
CBL	2	0.0342	0.0352	%	97.2	80.0 - 120	Acceptable	
9RaTHC	1	0.0316	0.0326	%	97.1	80.0 - 120	Acceptable	
CB	2	0.0353	0.0353	%	100	80.0 - 120	Acceptable	
THCA	1	0.0326	0.0320	%	102	90.0 - 110	Acceptable	
CBGA	2	0.0335	0.0327	%	102	80.0 - 120	Acceptable	
CBLA	2	0.0348	0.0345	%	101	80.0 - 120	Acceptable	
δ9THCP	2	0.0322	0.0330	%	97.6	80.0 - 120	Acceptable	
CB	2	0.0333	0.0349	%	95.4	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBV	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBE	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBDA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBSA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBG	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBF	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
δ8THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBN	<LOQ	0.00324	%	< 0.00324	Acceptable	
exo-THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
δ9THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
δ8THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
9SaTHC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBL	<LOQ	0.00324	%	< 0.00324	Acceptable	
9RaTHC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CB	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBGA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBLA	<LOQ	0.00324	%	< 0.00324	Acceptable	
δ9THCP	<LOQ	0.00324	%	< 0.00324	Acceptable	
CB	<LOQ	0.00324	%	< 0.00324	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:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2402383						
Sample Duplicate		Sample ID: 24-0032420001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	0.00553	0.00571	0.00322	%	3.06	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBDA	0.0703	0.0721	0.00322	%	2.52	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ8THCV	0.00873	0.00973	0.00322	%	10.8	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CBN	0.169	0.173	0.00322	%	2.57	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ9THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ8THC	0.654	0.673	0.00322	%	2.83	< 20	Acceptable	
9Saδ10THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
9Rδ10THC	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
THCA	0.00602	0.00621	0.00322	%	3.14	< 20	Acceptable	
CBGA	0.00493	0.00439	0.00322	%	11.5	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
δ9THCP	<LOQ	<LOQ	0.00322	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00322	%	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: 24-003280/D001.R000  
 Report Date: 04/03/2024  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 03/26/24 11:03

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2402407					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		478	584	µg/g	81.8	60 - 120	
Isobutane	ND	< 200		618	767	µg/g	80.6	60 - 120	
Butane	ND	< 200		605	782	µg/g	77.4	60 - 120	
2,2-Dimethylpropane	ND	< 200		717	939	µg/g	76.4	60 - 120	
Methanol	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
Ethylene Oxide	ND	< 30		45.3	57.1	µg/g	79.3	60 - 120	
2-Methylbutane	ND	< 200		1470	1600	µg/g	91.9	60 - 120	
Pentane	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Ethanol	ND	< 200		1450	1600	µg/g	90.6	70 - 130	
Ethyl Ether	ND	< 200		1440	1600	µg/g	90.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		145	163	µg/g	89.0	60 - 120	
Acetone	ND	< 200		1480	1610	µg/g	91.9	60 - 120	
2-Propanol	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Ethyl Formate	ND	< 500		1310	1620	µg/g	80.9	70 - 130	
Acetonitrile	ND	< 100		430	481	µg/g	89.4	60 - 120	
Methyl Acetate	ND	< 500		1320	1610	µg/g	82.0	70 - 130	
2,3-Dimethylbutane	ND	< 30		149	161	µg/g	92.5	60 - 120	
Dichloromethane	ND	< 60		413	481	µg/g	85.9	60 - 120	
2-Methylpentane	ND	< 30		141	162	µg/g	87.0	60 - 120	
MTBE	ND	< 500		1290	1610	µg/g	80.1	70 - 130	
3-Methylpentane	ND	< 30		140	163	µg/g	85.9	60 - 120	
Hexane	ND	< 30		139	163	µg/g	85.3	60 - 120	
1-Propanol	ND	< 500		1400	1600	µg/g	87.5	70 - 130	
Methylethylketone	ND	< 500		1360	1610	µg/g	84.5	70 - 130	
Ethyl acetate	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
2-Butanol	ND	< 200		1440	1600	µg/g	90.0	60 - 120	
Tetrahydrofuran	ND	< 100		421	487	µg/g	86.4	60 - 120	
Cyclohexane	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
2-methyl-1-propanol	ND	< 500		1330	1610	µg/g	82.6	70 - 130	
Benzene	ND	< 1		4.02	4.88	µg/g	82.4	60 - 120	
Isopropyl Acetate	ND	< 200		1490	1610	µg/g	92.5	60 - 120	
Heptane	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
1-Butanol	ND	< 500		1320	1610	µg/g	82.0	70 - 130	
Propyl Acetate	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
1,4-Dioxane	ND	< 100		407	484	µg/g	84.1	60 - 120	
2-Ethoxyethanol	ND	< 30		149	162	µg/g	92.0	60 - 120	
Methylisobutylketone	ND	< 500		1380	1630	µg/g	84.7	70 - 130	
3-Methyl-1-butanol	ND	< 500		1280	1610	µg/g	79.5	70 - 130	
Ethylene Glycol	ND	< 200		407	498	µg/g	82.1	60 - 120	
Toluene	ND	< 100		415	486	µg/g	85.4	60 - 120	
Isobutyl Acetate	ND	< 500		1360	1610	µg/g	84.5	70 - 130	
1-Pentanol	ND	< 500		1300	1600	µg/g	81.3	70 - 130	
Butyl Acetate	ND	< 500		1340	1600	µg/g	83.8	70 - 130	
Ethylbenzene	ND	< 200		782	961	µg/g	81.4	60 - 120	
m,p-Xylene	ND	< 200		793	973	µg/g	81.5	60 - 120	
o-Xylene	ND	< 200		821	963	µg/g	85.3	60 - 120	
Cumene	ND	< 30		132	164	µg/g	80.5	60 - 120	
Anisole	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
DMSO	ND	< 500		1280	1610	µg/g	79.5	70 - 130	
1,2-dimethoxyethane	ND	< 50		143	170	µg/g	84.1	70 - 130	
Triethylamine	ND	< 500		1140	1600	µg/g	71.3	70 - 130	
N,N-dimethylformamide	ND	< 150		357	482	µg/g	74.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		410	488	µg/g	84.0	70 - 130	
Pyridine	ND	< 50		134	164	µg/g	81.7	70 - 130	
Silfolane	ND	< 50		116	169	µg/g	68.6	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		1	1	µg/g	100.0	70 - 130	
Chloroform	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
Trichloroethylene	ND	< 1		1.05	1	µg/g	105.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.986	1	µg/g	98.6	70 - 130	



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

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

QC- Sample Duplicate		Sample ID: 24-003246-0001						
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  
 Q6- Quality control outside QClimits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03





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



**Report Number:** 24-003280/D001.R000  
**Report Date:** 04/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/26/24 11:03

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.