



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



**Report Number:** 24-006031/D001.R000  
**Report Date:** 06/10/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/03/24 12:43

**Customer:** NW Natural Goods  
**Product identity:** HEMP - LM 0098  
**Client/Metric ID:** .  
**Laboratory ID:** 24-006031-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.162		mg/4g		CBD-Total per Serving Size 24.0 mg/4g
CBD per 4g	24.0		mg/4g		
CBG per 4g	0.628		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.



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**Customer:** NW Natural Goods  
**Product identity:** HEMP - LM 0098  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-006031-0001  
**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: 2404278	Analyze: 6/5/24 4:36:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.162		mg/4g	0.130	
CBC-A per 4g	< LOQ		mg/4g	0.130	
CBC-Total per 4g	< LOQ		mg/4g	0.243	
CBD per 4g	24.0		mg/4g	0.130	
CBD-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.130	
CBD-Total per 4g <sup>1</sup>	24.0		mg/4g	0.243	
CBDV per 4g	< LOQ		mg/4g	0.130	
CBDV-A per 4g	< LOQ		mg/4g	0.130	
CBDV-Total per 4g	< LOQ		mg/4g	0.242	
CBE per 4g	< LOQ		mg/4g	0.130	
CBG per 4g	0.628		mg/4g	0.130	
CBG-A per 4g	< LOQ		mg/4g	0.130	
CBG-Total per 4g	0.628		mg/4g	0.242	
CBL per 4g	< LOQ		mg/4g	0.130	
CBL-A per 4g	< LOQ		mg/4g	0.130	
CBL-Total per 4g	< LOQ		mg/4g	0.243	
CBN per 4g	< LOQ		mg/4g	0.130	
CBT per 4g	< LOQ		mg/4g	0.130	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.130	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.130	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.259	
Δ8-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.130	
Δ8-THCV per 4g	< LOQ		mg/4g	0.130	
Δ9-THC per 4g <sup>1</sup>	< LOQ		mg/4g	0.130	
Δ9-THC-Total per 4g	< LOQ		mg/4g	0.243	
Δ9-THCP per 4g	< LOQ		mg/4g	0.130	
Δ9-THCV per 4g	< LOQ		mg/4g	0.130	
Δ9-THCV-A per 4g	< LOQ		mg/4g	0.130	
Δ9-THCV-Total per 4g	< LOQ		mg/4g	0.243	
exo-THC per 4g	< LOQ		mg/4g	0.130	
THC-A per 4g <sup>1</sup>	< LOQ		mg/4g	0.130	
Total Cannabinoids per 4g	24.8		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2404242	06/06/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2404242	06/06/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2404244	06/07/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2404244	06/07/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2404330 Analyze 06/06/24 03:48 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 2404358 Analyze 06/10/24 10:16 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>1</sup>	< LOQ	0.200	mg/kg	0.0172	2404313	06/06/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Cadmium <sup>1</sup>	< LOQ	0.200	mg/kg	0.0172	2404313	06/06/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Lead <sup>1</sup>	< LOQ	0.500	mg/kg	0.0172	2404313	06/06/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Mercury <sup>1</sup>	< LOQ	0.100	mg/kg	0.00860	2404313	06/06/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	



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**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	15.7		g/100g	0.10	2404333	06/06/24 AOAC 925.10 (mod.)		
Water Activity	0.600		Aw	0.030	2404318	06/06/24 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<sub>w</sub> = 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-1717423296

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1608

					Testing							
<b>Company Details</b> Company: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]		<b>Project Details</b> Turnaround Time: <u>5 Business Days   Req. For Micro Testing   Standard</u> Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Compliance: <u>Compliance</u> Project Name / ID: <u>HEMP - LM0098</u> <b>Pick-Up Details</b> Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted]			N3600 - Water Activity & Moisture (as Loss on Drying)   Food H0013 - Cannabis Heavy Metals Pro   le CR H0008 - Residual Solvents (Cannabis - Oregon) H0010 - Potency Cannabis (Basic+Expanded) P2320 - Multi-Residue Pesticide Pro   le (Cannabis) M075 - E. coli/Coliform Count (EC) Petri Im M283 - RAPID Yeast and Mold Count (RYM) Petri Im							
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size							
1	HEMP - LM0098	Cannabinoid Edible	20 each	mg/g & mg/serving	4g	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	06/03/2024	07:01	Temp., °C	BR	06/03/2024	10:20	25.00	No
BR	06/03/2024	10:47	17.30	rke	06/03/2024	12:43	25.00	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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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
Dichlofenthiol	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
Etoazole	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)



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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
Isoprocab	0.1
Isoprothiolane	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)

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





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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: 24-006031/D001.R000  
Report Date: 06/10/2024  
ORELAP#: OR100028  
Purchase Order:  
Received: 06/03/24 12:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2404278

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0291	0.0282	%	103	80.0 - 120	Acceptable	
CBDV	2	0.0332	0.0327	%	101	80.0 - 120	Acceptable	
CBE	2	0.0328	0.0322	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0305	0.0295	%	103	90.0 - 110	Acceptable	
CBGA	1	0.0302	0.0292	%	103	80.0 - 120	Acceptable	
CBG	1	0.0291	0.0288	%	101	80.0 - 120	Acceptable	
CBD	1	0.0317	0.0311	%	102	90.0 - 110	Acceptable	
THCV	2	0.0332	0.0328	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.0321	0.0318	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0315	0.0307	%	103	80.0 - 120	Acceptable	
CBN	1	0.0296	0.0293	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.0314	0.0317	%	99.0	80.0 - 120	Acceptable	
d9THC	1	0.0308	0.0310	%	99.3	90.0 - 110	Acceptable	
d8THC	1	0.0299	0.0303	%	98.8	90.0 - 110	Acceptable	
9S-d10THC	1	0.0294	0.0304	%	96.6	80.0 - 120	Acceptable	
CBL	2	0.0282	0.0286	%	98.4	80.0 - 120	Acceptable	
9S-HHC	3	0.0288	0.0304	%	94.6	80.0 - 120	Acceptable	
9R-d10THC	1	0.0289	0.0326	%	88.9	80.0 - 120	Acceptable	
CBC	2	0.0298	0.0307	%	97.2	80.0 - 120	Acceptable	
9R-HHC	3	0.0275	0.0285	%	96.4	80.0 - 120	Acceptable	
THCA	1	0.0314	0.0292	%	108	90.0 - 110	Acceptable	
CBCA	2	0.0323	0.0316	%	102	80.0 - 120	Acceptable	
CBLA	2	0.0328	0.0322	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0299	0.0313	%	95.5	80.0 - 120	Acceptable	
d8THCO	3	0.0313	0.0333	%	94.1	80.0 - 120	Acceptable	
CBT	2	0.0296	0.0320	%	92.4	80.0 - 120	Acceptable	
d9THCO	3	0.0295	0.0318	%	93.0	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBDV	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBE	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBDA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBGA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBG	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBD	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCV	<LOQ	0.00320	%	< 0.00320	Acceptable	
d8THCV	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCVA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBN	<LOQ	0.00320	%	< 0.00320	Acceptable	
exo-THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
d9THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
d8THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
9S-d10THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBL	<LOQ	0.00320	%	< 0.00320	Acceptable	
9S-HHC	<LOQ	0.00320	%	< 0.00320	Acceptable	
9R-d10THC	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBC	<LOQ	0.00320	%	< 0.00320	Acceptable	
9R-HHC	<LOQ	0.00320	%	< 0.00320	Acceptable	
THCA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBCA	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBLA	<LOQ	0.00320	%	< 0.00320	Acceptable	
d9THCP	<LOQ	0.00320	%	< 0.00320	Acceptable	
d8THCO	<LOQ	0.00320	%	< 0.00320	Acceptable	
CBT	<LOQ	0.00320	%	< 0.00320	Acceptable	
d9THCO	<LOQ	0.00320	%	< 0.00320	Acceptable	

Abbreviations

ND - None Detected at or above MRI



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



**Report Number:** 24-006031/D001.R000  
**Report Date:** 06/10/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/03/24 12:43

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

**Laboratory Quality Control Results**

AOAC 2015 V98-6		Batch ID: 2404278						
Sample Duplicate		Sample ID: 24-005936-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBG	0.00840	0.00828	0.00312	%	1.45	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBN	0.130	0.128	0.00312	%	1.35	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THC	0.260	0.256	0.00312	%	1.76	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBC	0.00417	0.00410	0.00312	%	1.67	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00312	%	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: 24-006031/D001.R000  
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Revision: 2 Document ID: 7087  
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2404330			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec. Limits Notes
Propane	ND	< 200		569	584	µg/g	97.4 60 - 120
Isobutane	ND	< 200		716	767	µg/g	93.4 60 - 120
Butane	ND	< 200		732	782	µg/g	93.6 60 - 120
2,2-Dimethylpropane	ND	< 200		908	939	µg/g	96.7 60 - 120
Methanol	ND	< 200		2060	1600	µg/g	128.8 60 - 120 Q1
Ethylene Oxide	ND	< 30		55.8	57.1	µg/g	97.7 60 - 120
2-Methylbutane	ND	< 200		2020	1620	µg/g	124.7 60 - 120 Q1
Pertane	ND	< 200		2010	1610	µg/g	124.8 60 - 120 Q6
Ethanol	ND	< 200		2010	1600	µg/g	125.6 70 - 130 Q1
Ethyl Ether	ND	< 200		1940	1610	µg/g	120.5 60 - 120 Q1
2,2-Dimethylbutane	ND	< 30		233	190	µg/g	122.6 60 - 120 Q6
Acetone	ND	< 200		1980	1610	µg/g	123.0 60 - 120 Q1
2-Propanol	ND	< 200		2140	1610	µg/g	132.9 60 - 120 Q1
Ethyl Formate	ND	< 500		2430	1630	µg/g	149.1 70 - 130 Q1
Acetonitrile	ND	< 100		814	486	µg/g	167.5 60 - 120 Q1
Methyl Acetate	ND	< 500		2570	1610	µg/g	159.6 70 - 130 Q1
2,3-Dimethylbutane	ND	< 30		275	163	µg/g	168.7 60 - 120 Q1
Dichloromethane	ND	< 60		723	482	µg/g	150.0 60 - 120 Q1
2-Methylpentane	ND	< 30		294	178	µg/g	165.2 60 - 120 Q1
MTBE	ND	< 500		1780	1610	µg/g	110.6 70 - 130
3-Methylpentane	ND	< 30		795	490	µg/g	162.2 60 - 120 Q1
Hexane	ND	< 30		290	175	µg/g	165.7 60 - 120 Q1
1-Propanol	ND	< 500		1910	1610	µg/g	118.6 70 - 130
Methylethylketone	ND	< 500		1890	1610	µg/g	117.4 70 - 130
Ethyl acetate	ND	< 200		1970	1600	µg/g	123.1 60 - 120 Q1
2-Butanol	ND	< 200		2040	1610	µg/g	126.7 60 - 120 Q1
Tetrahydrofuran	ND	< 100		595	504	µg/g	118.1 60 - 120
Cyclohexane	ND	< 200		1920	1620	µg/g	118.5 60 - 120
2-methyl-1-propanol	ND	< 500		1850	1610	µg/g	114.9 70 - 130
Benzene	ND	< 1		5.67	5.08	µg/g	111.6 60 - 120
Isopropyl Acetate	ND	< 200		1950	1610	µg/g	121.1 60 - 120
Heptane	ND	< 200		1960	1610	µg/g	121.7 60 - 120
1-Butanol	ND	< 500		1870	1610	µg/g	116.1 70 - 130
Propyl Acetate	ND	< 500		1920	1610	µg/g	119.3 70 - 130
1,4-Dioxane	ND	< 100		573	488	µg/g	117.4 60 - 120
2-Ethoxyethanol	ND	< 30		205	163	µg/g	125.8 60 - 120
Methylisobutylketone	ND	< 500		1900	1620	µg/g	117.3 70 - 130
3-Methyl-1-butanol	ND	< 500		1860	1610	µg/g	115.5 70 - 130
Ethylene Glycol	ND	< 200		386	488	µg/g	79.1 60 - 120
Toluene	ND	< 100		573	492	µg/g	116.5 60 - 120
Isobutyl Acetate	ND	< 500		1910	1620	µg/g	117.9 70 - 130
1-Pertanol	ND	< 500		1890	1610	µg/g	117.4 70 - 130
Butyl Acetate	ND	< 500		2020	1650	µg/g	122.4 70 - 130
Ethylbenzene	ND	< 200		1150	969	µg/g	118.7 60 - 120
m,p-Xylene	ND	< 200		1150	981	µg/g	117.2 60 - 120
o-Xylene	ND	< 200		1100	966	µg/g	113.9 60 - 120
Cumene	ND	< 30		182	167	µg/g	109.0 60 - 120
Anisole	ND	< 500		1690	1610	µg/g	105.0 70 - 130
DMSO	ND	< 500		1760	1610	µg/g	109.3 70 - 130
1,2-dimethoxyethane	ND	< 50		205	170	µg/g	120.6 70 - 130
Triethylamine	ND	< 500		1450	1620	µg/g	89.5 70 - 130
N,N-dimethylformamide	ND	< 150		585	499	µg/g	117.2 70 - 130
N,N-dimethylacetamide	ND	< 150		568	489	µg/g	116.2 70 - 130
Pyridine	ND	< 50		171	167	µg/g	102.4 70 - 130
Sulfolane	ND	< 50		168	169	µg/g	99.4 70 - 130



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



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Legacy ID: CFL-E33Effective:

QC- Sample Duplicate

Sample ID: 24-005888-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Isobutane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Butane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2,2-Dimethylpropane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Methanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethylene Oxide	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
2-Methylbutane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Pertane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethyl Ether	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2,2-Dimethylbutane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Acetone	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-Propanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Ethyl Formate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Acetonitrile	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Methyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
2,3-Dimethylbutane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Dichloromethane	ND	#N/A	60	µg/g	#N/A	< 20	#N/A	
2-Methylpentane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
MTBE	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
3-Methylpentane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Hexane	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
1-Propanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Methylethylketone	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethyl acetate	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-Butanol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Tetrahydrofuran	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Cyclohexane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
2-methyl-1-propanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Benzene	ND	#N/A	1	µg/g	#N/A	< 20	#N/A	
Isopropyl Acetate	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Heptane	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
1-Butanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Propyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1,4-Dioxane	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
2-Ethoxyethanol	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Methylisobutylketone	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
3-Methyl-1-butanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethylene Glycol	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Toluene	ND	#N/A	100	µg/g	#N/A	< 20	#N/A	
Isobutyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1-Pentanol	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Butyl Acetate	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
Ethylbenzene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
m,p-Xylene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
o-Xylene	ND	#N/A	200	µg/g	#N/A	< 20	#N/A	
Cumene	ND	#N/A	30	µg/g	#N/A	< 20	#N/A	
Anisole	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
DMSO	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
1,2-dimethoxyethane	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	
Triethylamine	ND	#N/A	500	µg/g	#N/A	< 20	#N/A	
N,N-dimethylformamide	ND	#N/A	150	µg/g	#N/A	< 20	#N/A	
N,N-dimethylacetamide	ND	#N/A	150	µg/g	#N/A	< 20	#N/A	
Pyridine	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	
Sulfolane	ND	#N/A	50	µg/g	#N/A	< 20	#N/A	

**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:** 24-006031/D001.R000  
**Report Date:** 06/10/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/03/24 12:43





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.