



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



**Report Number:** 24-004003/D001.R000  
**Report Date:** 04/18/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/11/24 12:49

**Customer:** NW Natural Goods  
**Product identity:** HEMP - LM 0094  
**Client/Metric ID:** .  
**Laboratory ID:** 24-004003-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	25.0		mg/4g		CBD-Total per Serving Size 25.0 mg/4g
CBG per 4g	0.620		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 - LM 0094  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-004003-0001  
**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: 2402821		Analyze: 4/15/24 11:49:00 AM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	< LOQ		mg/4g	0.125		
CBC-A per 4g	< LOQ		mg/4g	0.125		
CBC-Total per 4g	< LOQ		mg/4g	0.235		
CBD per 4g	25.0		mg/4g	0.125		
CBD-A per 4g <sup>±</sup>	< LOQ		mg/4g	0.125		
CBD-Total per 4g <sup>±</sup>	25.0		mg/4g	0.235		
CBDV per 4g	< LOQ		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	< LOQ		mg/4g	0.125		
CBG per 4g	0.620		mg/4g	0.125		
CBG-A per 4g	< LOQ		mg/4g	0.125		
CBG-Total per 4g	0.620		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	0.235		
CBN per 4g	< LOQ		mg/4g	0.125		
CBT per 4g	< LOQ		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	0.250		
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	0.235		
THCV per 4g	< LOQ		mg/4g	0.125		
THCV-A per 4g	< LOQ		mg/4g	0.125		
THCV-Total per 4g	< LOQ		mg/4g	0.235		
Total Cannabinoids per 4g	25.6		mg/4g			



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402767	04/14/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402767	04/14/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402768	04/15/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402768	04/15/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2402902 Analyze 04/17/24 12:58 PM**

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) <sup>‡</sup>	< LOQ		200		
2-Methylpentane <sup>‡</sup>	< LOQ		30.0			2-Propanol (IPA) <sup>‡</sup>	< LOQ	5000	200	pass	
2,2-Dimethylbutane <sup>‡</sup>	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) <sup>‡</sup>	< LOQ		200		
2,3-Dimethylbutane <sup>‡</sup>	< LOQ		30.0			3-Methylpentane <sup>‡</sup>	< 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) <sup>‡</sup>	< 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) <sup>‡</sup>	< 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 <sup>‡</sup>	< LOQ		200		
Methanol <sup>‡</sup>	< LOQ	3000	200	pass		Methylene chloride <sup>‡</sup>	< LOQ	600	60.0	pass	
Methylpropane (Isobutane) <sup>‡</sup>	< LOQ		200			n-Butane <sup>‡</sup>	< 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 <sup>‡</sup>	< 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 2402897 Analyze 04/17/24 11:36 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	0.0184	2402842	04/15/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0184	2402842	04/15/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0184	2402842	04/15/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00920	2402842	04/15/24 AOAC 2013.06 (mod.) <sup>b</sup>	pass	

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Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Nutrition								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	16.9		g/100g	0.10	2402848	04/15/24 AOAC 925.10 (mod.)		Q6
Water Activity	0.637		Aw	0.030	2402792	04/12/24 AOAC 978.18		



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### Abbreviations

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

▷ = ISO/IEC 17025:2017 accredited method.

\* = TNI accredited analyte.

### Units of Measure

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/4g = Milligram per 4g

% = Percentage of sample

A<sub>w</sub> = Water Activity

% wt = µg/g divided by 10,000

### Glossary of Qualifiers

Q6: Quality control outside QC limits. Data acceptable based on remaining QC.

Approved Signatory

Derrick Tanner  
General Manager



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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
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
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
MCPP	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)

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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

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Hemp & Cannabis  
 Chain of Custody

Northwest-Natural-Goods-1712841130

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

						Testing											
						H0010 - Potency Cannabis (Basic+Expanded)	H0008 - Residual Solvents (Cannabis - Oregon)	H0013 - Cannabis Heavy Metals Pro Ie CR	N3600 - Water Activity & Moisture (as Loss on Dry/ing) (Food	P2300 - Multi-Residue Pesticide Pro Ie (Cannabis)	M283 - RAPID Yeast and Mold Count (RYM) Petri Im	M075 - E. coli/Coliform Count (EC) Petri Im					
<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 - LM0094</u> Cannabis Type (select if applicable): <u>Industrial</u> <b>Pick-Up Details</b> Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted]						<b>Receipt Information</b> [Redacted]					
#	Sample Name	Material	Reporting Unit	Amount Provided	Serving Size												
1	HEMP - LM0094	Cannabinoid Edible	mg/g & mg/serving	20 each	4g	✓	✓	✓	✓	✓	✓						

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	04/11/2024	06:12	Temp., °C	BR	04/11/2024	10:25	25	No
BR	04/11/2024	12:49	16.7	MEW	04/11/2024	14:02	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

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[www.columbialaboratories.com](http://www.columbialaboratories.com)



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



Report Number: 24-004003/D001.R000  
 Report Date: 04/18/2024  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 04/11/24 12:49

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2402821

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0336	0.0324	%	104	80.0	- 120	Acceptable		
CBDV	2	0.0359	0.0346	%	104	80.0	- 120	Acceptable		
CBE	2	0.0357	0.0348	%	103	80.0	- 120	Acceptable		
CBDA	1	0.0307	0.0308	%	99.5	90.0	- 110	Acceptable		
CBGA	1	0.0304	0.0306	%	99.3	80.0	- 120	Acceptable		
CBG	1	0.0344	0.0344	%	100	80.0	- 120	Acceptable		
CBD	1	0.0328	0.0330	%	99.3	90.0	- 110	Acceptable		
THCV	2	0.0371	0.0356	%	104	80.0	- 120	Acceptable		
d8THCV	2	0.0232	0.0226	%	102	80.0	- 120	Acceptable		
THCVA	2	0.0328	0.0317	%	104	80.0	- 120	Acceptable		
CBN	1	0.0320	0.0319	%	100	80.0	- 120	Acceptable		
exo-THC	2	0.0363	0.0355	%	102	80.0	- 120	Acceptable		
d9THC	1	0.0351	0.0342	%	103	90.0	- 110	Acceptable		
d8THC	1	0.0291	0.0300	%	97.1	90.0	- 110	Acceptable		
9S-d10THC	1	0.0322	0.0321	%	100	80.0	- 120	Acceptable		
CBL	2	0.0367	0.0352	%	104	80.0	- 120	Acceptable		
9R-d10THC	1	0.0305	0.0312	%	97.6	80.0	- 120	Acceptable		
CBC	2	0.0355	0.0353	%	101	80.0	- 120	Acceptable		
THCA	1	0.0305	0.0305	%	100.0	90.0	- 110	Acceptable		
CBCA	2	0.0339	0.0327	%	104	80.0	- 120	Acceptable		
CBLA	2	0.0352	0.0345	%	102	80.0	- 120	Acceptable		
d9THCP	2	0.0334	0.0330	%	101	80.0	- 120	Acceptable		
CBT	2	0.0344	0.0349	%	98.7	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  
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 503-254-1794



**Report Number:** 24-004003/D001.R000  
**Report Date:** 04/18/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/11/24 12:49

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

Laboratory Quality Control Results

AOAC 2015 V98-6		Batch ID: 2402821						
Sample Duplicate		Sample ID: 24-003969-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBG	0.0114	0.0130	0.00316	%	13.3	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
THCV	<LOQ	0.00353	0.00316	%	NA	< 20	Acceptable	R2
d8THCV	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBN	0.0116	0.0129	0.00316	%	11.0	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
d9THC	0.526	0.601	0.00316	%	13.4	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBC	0.00561	0.00648	0.00316	%	14.4	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00316	%	NA	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:

% - Percent



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 Purchase Order:  
 Received: 04/11/24 12:49

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2402902					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		511	584	µg/g	87.5	60 - 120	
Isobutane	ND	< 200		630	767	µg/g	82.1	60 - 120	
Butane	ND	< 200		648	782	µg/g	82.9	60 - 120	
2,2-Dimethylpropane	ND	< 200		718	939	µg/g	76.5	60 - 120	
Methanol	ND	< 200		1780	1600	µg/g	111.3	60 - 120	
Ethylene Oxide	ND	< 30		48.5	57.1	µg/g	84.9	60 - 120	
2-Methylbutane	ND	< 200		1760	1600	µg/g	110.0	60 - 120	
Pentane	ND	< 200		1770	1600	µg/g	110.6	60 - 120	
Ethanol	ND	< 200		1760	1600	µg/g	110.0	70 - 130	
Ethyl Ether	ND	< 200		1740	1600	µg/g	108.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		178	163	µg/g	109.2	60 - 120	
Acetone	ND	< 200		1760	1610	µg/g	109.3	60 - 120	
2-Propanol	ND	< 200		1760	1600	µg/g	110.0	60 - 120	
Acetonitrile	ND	< 100		532	481	µg/g	110.6	60 - 120	
2,3-Dimethylbutane	ND	< 30		175	161	µg/g	108.7	60 - 120	
Dichloromethane	ND	< 60		514	481	µg/g	106.9	60 - 120	
2-Methylpentane	ND	< 30		164	162	µg/g	101.2	60 - 120	
3-Methylpentane	ND	< 30		169	163	µg/g	103.7	60 - 120	
Hexane	ND	< 30		173	163	µg/g	106.1	60 - 120	
Ethyl acetate	ND	< 200		1750	1610	µg/g	108.7	60 - 120	
2-Butanol	ND	< 200		1730	1600	µg/g	108.1	60 - 120	
Tetrahydrofuran	ND	< 100		529	487	µg/g	108.6	60 - 120	
Cyclohexane	ND	< 200		1750	1610	µg/g	108.7	60 - 120	
Benzene	ND	< 1		5.05	4.88	µg/g	103.5	60 - 120	
Isopropyl Acetate	ND	< 200		1760	1610	µg/g	109.3	60 - 120	
Heptane	ND	< 200		1760	1600	µg/g	110.0	60 - 120	
1,4-Dioxane	ND	< 100		524	484	µg/g	108.3	60 - 120	
2-Ethoxyethanol	ND	< 30		172	162	µg/g	106.2	60 - 120	
Ethylene Glycol	ND	< 200		500	496	µg/g	100.8	60 - 120	
Toluene	ND	< 100		529	486	µg/g	108.8	60 - 120	
Ethylbenzene	ND	< 200		1010	961	µg/g	105.1	60 - 120	
m,p-Xylene	ND	< 200		1020	973	µg/g	104.8	60 - 120	
o-Xylene	ND	< 200		1010	963	µg/g	104.9	60 - 120	
Cumene	ND	< 30		170	164	µg/g	103.7	60 - 120	
1,2-Dichloroethane	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
Chloroform	ND	< 1		0.858	1	µg/g	85.8	70 - 130	
Trichloroethylene	ND	< 1		0.855	1	µg/g	85.5	70 - 130	
1,1-Dichloroethane	ND	< 1		1.02	1	µg/g	102.0	70 - 130	



**QC - Sample Duplicate**

**Sample ID: 24-004000-0001**

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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

**Abbreviations**

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation

**Units of Measure:**

µg/g- Microgram per gram or ppm



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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.