



Customer: NW Natural Goods
Product identity: HEMP - RB 0134
Client/Metric ID: .
Laboratory ID: 24-003870-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.178		mg/4g		CBD-Total per Serving Size 27.4 mg/4g
CBD per 4g	27.4		mg/4g		
CBG per 4g	0.700		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.


Customer: NW Natural Goods

Product identity: HEMP - RB 0134

Client/Metric ID: .

Sample Date:
Laboratory ID: 24-003870-0001

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: 2402753		Analyze: 4/10/24 10:41:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.178		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	27.4		mg/4g	0.125		
CBD-A per 4g ¹	< LOQ		mg/4g	0.125		
CBD-Total per 4g ¹	27.4		mg/4g	0.234		
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	0.700		mg/4g	0.125		
CBG-A per 4g	< LOQ		mg/4g	0.125		
CBG-Total per 4g	0.700		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	< 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	0.249		
Δ8-THC per 4g ¹	< LOQ		mg/4g	0.125		
Δ9-THC per 4g ¹	< 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 ¹	< 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	28.3		mg/4g			



Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402706	04/12/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402706	04/12/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402707	04/13/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402707	04/13/24 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS ^b Units µg/g Batch 2402826 Analyze 04/15/24 01:56 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane [‡]	< LOQ	380	100	pass		2-Butanol [‡]	< LOQ	5000	200	pass	
2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane) [‡]	< LOQ		200		
2-Methylpentane [‡]	< LOQ		30.0			2-Propanol (IPA) [‡]	< LOQ	5000	200	pass	
2,2-Dimethylbutane [‡]	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) [‡]	< LOQ		200		
2,3-Dimethylbutane [‡]	< LOQ		30.0			3-Methylpentane [‡]	< LOQ		30.0		
Acetone [‡]	< LOQ	5000	200	pass		Acetonitrile [‡]	< LOQ	410	100	pass	
Benzene [‡]	< LOQ	2.00	1.00	pass		Butanes (sum) [‡]	< LOQ	5000	400	pass	
Cyclohexane [‡]	< LOQ	3880	200	pass		Ethyl acetate [‡]	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether [‡]	< LOQ	5000	200	pass	
Ethylene glycol [‡]	< LOQ	620	200	pass		Ethylene oxide [‡]	< LOQ	50.0	20.0	pass	
Hexanes (sum) [‡]	< LOQ	290	150	pass		Isopropyl acetate [‡]	< LOQ	5000	200	pass	
Isopropylbenzene (Cumene) [‡]	< LOQ	70.0	30.0	pass		m,p-Xylene [‡]	< LOQ		200		
Methanol [‡]	< LOQ	3000	200	pass		Methylene chloride [‡]	< LOQ	600	60.0	pass	
Methylpropane (Isobutane) [‡]	< LOQ		200			n-Butane [‡]	< LOQ		200		
n-Heptane [‡]	< LOQ	5000	200	pass		n-Hexane [‡]	< LOQ		30.0		
n-Pentane [‡]	< LOQ		200			o-Xylene [‡]	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane [‡]	< LOQ	5000	200	pass	
Tetrahydrofuran [‡]	< LOQ	720	100	pass		Toluene [‡]	< LOQ	890	100	pass	
Total Xylenes [‡]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	

Pesticides Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2402819 Analyze 04/15/24 12:29 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 [‡]	< LOQ	0.200	mg/kg	0.0191	2402794	04/12/24 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0191	2402794	04/12/24 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0191	2402794	04/12/24 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00957	2402794	04/12/24 AOAC 2013.06 (mod.) ^b	pass	



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



Report Number: 24-003870/D001.R000
Report Date: 04/16/2024
ORELAP#: OR100028
Purchase Order:
Received: 04/09/24 13:24

Nutrition								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status Notes
Moisture (Loss on Drying)	18.1		g/100g	0.10	2402748	04/10/24	AOAC 925.10 (mod.)	
Water Activity	0.700		Aw	0.030	2402792	04/12/24	AOAC 978.18	

**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_w = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory



Derrick Tanner
General Manager


 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
Crotoxypfos	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
Etioazole	0.1
Etrinfos	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)


 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
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
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
Mepanipyrim	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
Paraaxon-ethyl	0.1
Paraaxon-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
Saflufenacil	0.1

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



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
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)

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Updated: 09.12.2022



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



Report Number: 24-003870/D001.R000
Report Date: 04/16/2024
ORELAP#: OR100028
Purchase Order:
Received: 04/09/24 13:24



Hemp & Cannabis
Chain of Custody

Northwest-Natural-
Goods-1712605604

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT1508

Company Details Company: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]		Project Details		Testing							
		Turnaround Time: <u>5 Business Days</u> Req. For Micro Testing <u>Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Compliance: <u>Compliance</u> Project Name / ID: <u>HEMP - RB 0134</u> Cannabis Type (select if applicable): <u>Industrial</u> Pick-Up Details Pick-Up Location Name: <u>Northwest Natural Goods</u> [Redacted] [Redacted] [Redacted] Receipt Information		P2320 - Multi-Residue Pesticide Profile (Cannabis)	H0008 - Residual Solvents (Cannabis - Oregon)	H0010 - Potency Cannabis (Basic+Expanded)	M283 - RAPID Yeast and Mold Count (RYM) Petri Im	H0013 - Cannabis Heavy Metals Profile OR	N3600 - Water Activity & Moisture (as Loss on Drying) Food	M075 - E. coli/Coliform Count (EC) Petri Im	
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size						
1	HEMP - RB 0134	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	04/08/2024	12:46	Temp., °C	BR	04/09/2024	10:25	25	No
BR	04/09/2024	12:24	19.5	MEW	04/09/2024	13:24	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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info@columbialaboratories.com

Page 1 of 1
www.columbialaboratories.com


Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2402753				
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDA	2	0.0316	0.0324	%	97.7	80.0	- 120	Acceptable	
CBV	2	0.0320	0.0346	%	92.3	80.0	- 120	Acceptable	
CBE	2	0.0318	0.0348	%	91.2	80.0	- 120	Acceptable	
CBDA	1	0.0308	0.0308	%	99.8	90.0	- 110	Acceptable	
CBGA	1	0.0304	0.0306	%	99.5	80.0	- 120	Acceptable	
CBG	1	0.0339	0.0344	%	98.7	80.0	- 120	Acceptable	
CBD	1	0.0326	0.0330	%	98.8	90.0	- 110	Acceptable	
THCV	2	0.0350	0.0356	%	98.1	80.0	- 120	Acceptable	
d8THCV	2	0.0217	0.0226	%	95.9	80.0	- 120	Acceptable	
THCVA	2	0.0309	0.0317	%	97.5	80.0	- 120	Acceptable	
CBN	1	0.0311	0.0319	%	97.6	80.0	- 120	Acceptable	
exo-THC	2	0.0348	0.0355	%	98.0	80.0	- 120	Acceptable	
d9THC	1	0.0333	0.0342	%	97.4	90.0	- 110	Acceptable	
d8THC	1	0.0300	0.0300	%	99.9	90.0	- 110	Acceptable	
9Sa10THC	1	0.0314	0.0321	%	97.9	80.0	- 120	Acceptable	
CB	2	0.0340	0.0352	%	96.8	80.0	- 120	Acceptable	
9Ra10THC	1	0.0300	0.0312	%	96.1	80.0	- 120	Acceptable	
CB	2	0.0343	0.0353	%	97.3	80.0	- 120	Acceptable	
THCA	1	0.0310	0.0305	%	102	90.0	- 110	Acceptable	
CBGA	2	0.0327	0.0327	%	99.9	80.0	- 120	Acceptable	
CBLA	2	0.0336	0.0345	%	97.4	80.0	- 120	Acceptable	
d9THCP	2	0.0319	0.0330	%	96.6	80.0	- 120	Acceptable	
CB	2	0.0321	0.0349	%	92.1	80.0	- 120	Acceptable	
Method Blank									
Analyte		Result	LOQ	Units		Limits		Evaluation	Notes
CBDA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBV		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBE		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBDA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBGA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBG		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBD		<LOQ	0.00326	%		< 0.00326		Acceptable	
THCV		<LOQ	0.00326	%		< 0.00326		Acceptable	
d8THCV		<LOQ	0.00326	%		< 0.00326		Acceptable	
THCVA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBN		<LOQ	0.00326	%		< 0.00326		Acceptable	
exo-THC		<LOQ	0.00326	%		< 0.00326		Acceptable	
d9THC		<LOQ	0.00326	%		< 0.00326		Acceptable	
d8THC		<LOQ	0.00326	%		< 0.00326		Acceptable	
9Sa10THC		<LOQ	0.00326	%		< 0.00326		Acceptable	
CB		<LOQ	0.00326	%		< 0.00326		Acceptable	
9Ra10THC		<LOQ	0.00326	%		< 0.00326		Acceptable	
CB		<LOQ	0.00326	%		< 0.00326		Acceptable	
THCA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBGA		<LOQ	0.00326	%		< 0.00326		Acceptable	
CBLA		<LOQ	0.00326	%		< 0.00326		Acceptable	
d9THCP		<LOQ	0.00326	%		< 0.00326		Acceptable	
CB		<LOQ	0.00326	%		< 0.00326		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

AOAC 2015 V98-6			Batch ID: 2402753					
Sample Duplicate			Sample ID: 24-003497-0001-01					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBDV	0.0830	0.0789	0.00307	%	4.97	< 20	Acceptable	
CBE	0.0590	0.0562	0.00307	%	4.79	< 20	Acceptable	
CBDIA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBG	0.0913	0.0871	0.00307	%	4.76	< 20	Acceptable	
CBD	5.77	5.49	0.00307	%	4.98	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBN	0.0197	0.0186	0.00307	%	5.99	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d9THC	0.200	0.191	0.00307	%	4.35	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBL	0.0290	0.0271	0.00307	%	6.63	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBC	0.00573	0.00518	0.00307	%	10.1	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00307	%	NA	< 20	Acceptable	
CBI	0.478	0.455	0.00307	%	4.91	< 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: 2402826			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		495	584	µg/g	84.8 60 - 120
Isobutane	ND	< 200		616	767	µg/g	80.3 60 - 120
Butane	ND	< 200		626	782	µg/g	80.1 60 - 120
2,2-Dimethylpropane	ND	< 200		726	939	µg/g	77.3 60 - 120
Methanol	ND	< 200		1550	1600	µg/g	96.9 60 - 120
Ethylene Oxide	ND	< 30		47.7	57.1	µg/g	83.5 60 - 120
2-Methylbutane	ND	< 200		1390	1600	µg/g	86.9 60 - 120
Pentane	ND	< 200		1400	1600	µg/g	87.5 60 - 120
Ethanol	ND	< 200		1380	1600	µg/g	86.3 70 - 130
Ethyl Ether	ND	< 200		1270	1600	µg/g	79.4 60 - 120
2,2-Dimethylbutane	ND	< 30		128	163	µg/g	78.5 60 - 120
Acetone	ND	< 200		1400	1610	µg/g	87.0 60 - 120
2-Propanol	ND	< 200		1380	1600	µg/g	86.3 60 - 120
Ethyl Formate	ND	< 500		1660	1620	µg/g	102.5 70 - 130
Acetonitrile	ND	< 100		414	481	µg/g	86.1 60 - 120
Methyl Acetate	ND	< 500		1520	1610	µg/g	94.4 70 - 130
2,3-Dimethylbutane	ND	< 30		139	161	µg/g	86.3 60 - 120
Dichloromethane	ND	< 60		364	481	µg/g	75.7 60 - 120
2-Methylpentane	ND	< 30		120	162	µg/g	74.1 60 - 120
MTBE	ND	< 500		1530	1610	µg/g	95.0 70 - 130
3-Methylpentane	ND	< 30		123	163	µg/g	75.5 60 - 120
Hexane	ND	< 30		124	163	µg/g	76.1 60 - 120
1-Propanol	ND	< 500		1610	1600	µg/g	100.6 70 - 130
Methylethylketone	ND	< 500		1630	1610	µg/g	101.2 70 - 130
Ethyl acetate	ND	< 200		1390	1610	µg/g	86.3 60 - 120
2-Butanol	ND	< 200		1320	1600	µg/g	82.5 60 - 120
Tetrahydrofuran	ND	< 100		352	487	µg/g	72.3 60 - 120
Cyclohexane	ND	< 200		1040	1610	µg/g	64.6 60 - 120
2-methyl-1-propanol	ND	< 500		1440	1610	µg/g	89.4 70 - 130
Benzene	ND	< 1		2.91	4.88	µg/g	59.6 60 - 120 Q6
Isopropyl Acetate	ND	< 200		1220	1610	µg/g	75.8 60 - 120
Heptane	ND	< 200		1190	1600	µg/g	74.4 60 - 120
1-Butanol	ND	< 500		1510	1610	µg/g	93.8 70 - 130
Propyl Acetate	ND	< 500		1570	1610	µg/g	97.5 70 - 130
1,4-Dioxane	ND	< 100		292	484	µg/g	60.3 60 - 120
2-Ethoxyethanol	ND	< 30		131	162	µg/g	80.9 60 - 120
Methylisobutylketone	ND	< 500		1560	1630	µg/g	95.7 70 - 130
3-Methyl-1-butanol	ND	< 500		1510	1610	µg/g	93.8 70 - 130
Ethylene Glycol	ND	< 200		375	496	µg/g	75.6 60 - 120
Toluene	ND	< 100		306	486	µg/g	63.0 60 - 120
Isobutyl Acetate	ND	< 500		1560	1610	µg/g	96.9 70 - 130
1-Pentanol	ND	< 500		1560	1600	µg/g	97.5 70 - 130
Butyl Acetate	ND	< 500		1570	1600	µg/g	98.1 70 - 130
Ethylbenzene	ND	< 200		600	961	µg/g	62.4 60 - 120
m,p-Xylene	ND	< 200		606	973	µg/g	62.3 60 - 120
o-Xylene	ND	< 200		563	963	µg/g	58.5 60 - 120 Q6
Cumene	ND	< 30		93.5	164	µg/g	57.0 60 - 120 Q6
Anisole	ND	< 500		1510	1600	µg/g	94.4 70 - 130
DMSO	ND	< 500		1520	1610	µg/g	94.4 70 - 130
1,2-dimethoxyethane	ND	< 50		163	170	µg/g	95.9 70 - 130
Triethylamine	ND	< 500		1280	1600	µg/g	80.0 70 - 130
N,N-dimethylformamide	ND	< 150		439	482	µg/g	91.1 70 - 130
N,N-dimethylacetamide	ND	< 150		457	488	µg/g	93.6 70 - 130
Pyridine	ND	< 50		140	164	µg/g	85.4 70 - 130
Sulfolane	ND	< 50		138	169	µg/g	81.7 70 - 130
1,2-Dichloroethane	ND	< 1		1.1	1	µg/g	110.0 70 - 130
Chloroform	ND	< 1		1.15	1	µg/g	115.0 70 - 130
Trichloroethylene	ND	< 1		0.969	1	µg/g	96.9 70 - 130
1,1-Dichloroethane	ND	< 1		1.13	1	µg/g	113.0 70 - 130



QC- Sample Duplicate

Sample ID: 24-003849-0001

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: 24-003870/D001.R000
Report Date: 04/16/2024
ORELAP#: OR100028
Purchase Order:
Received: 04/09/24 13:24





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.