



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



Report Number: 24-004789/D001.R000
Report Date: 05/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 05/02/24 13:45

Customer: NW Natural Goods
Product identity: HEMP - EB 0116
Client/Metric ID: .
Laboratory ID: 24-004789-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	25.2		mg/4g		CBD-Total per Serving Size 25.2 mg/4g
CBG per 4g	0.656		mg/4g		
CBN per 4g	4.72		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 - EB 0116

Client/Metric ID: .

Sample Date:
Laboratory ID: 24-004789-0001

Evidence of Cooling: No

Temp: 16.0

Relinquished by: client

Serving Size #1: 4 g

Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod)		Units mg/se Batch: 2403466		Analyze: 5/6/24 7:20:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	< LOQ		mg/4g	0.130		
CBC-A per 4g	< LOQ		mg/4g	0.130		
CBC-Total per 4g	< LOQ		mg/4g	0.245		
CBD per 4g	25.2		mg/4g	0.130		
CBD-A per 4g	< LOQ		mg/4g	0.130		
CBD-Total per 4g	25.2		mg/4g	0.245		
CBDV per 4g	< LOQ		mg/4g	0.130		
CBDV-A per 4g	< LOQ		mg/4g	0.130		
CBDV-Total per 4g	< LOQ		mg/4g	0.243		
CBE per 4g	< LOQ		mg/4g	0.130		
CBG per 4g	0.656		mg/4g	0.130		
CBG-A per 4g	< LOQ		mg/4g	0.130		
CBG-Total per 4g	0.656		mg/4g	0.243		
CBL per 4g	< LOQ		mg/4g	0.130		
CBL-A per 4g	< LOQ		mg/4g	0.130		
CBL-Total per 4g	< LOQ		mg/4g	0.245		
CBN per 4g	4.72		mg/4g	0.130		
CBT per 4g	< LOQ		mg/4g	0.130		
Δ8-THCV 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	0.261		
Δ8-THC per 4g	< LOQ		mg/4g	0.130		
Δ9-THC per 4g	< LOQ		mg/4g	0.130		
delta-9-THCP per 4g	< LOQ		mg/4g	0.130		
THC-A per 4g	< LOQ		mg/4g	0.130		
THC-Total per 4g	< LOQ		mg/4g	0.245		
THCV per 4g	< LOQ		mg/4g	0.130		
THCV-A per 4g	< LOQ		mg/4g	0.130		
THCV-Total per 4g	< LOQ		mg/4g	0.245		
Total Cannabinoids per 4g	30.6		mg/4g			



Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2403371	05/05/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2403371	05/05/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2403372	05/06/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2403372	05/06/24 AOAC 2014.05 (RAPID)		

Solvents Method: Residual Solvents by HS-GC-MS ^b Units µg/g Batch 2403517 Analyze 05/08/24 12:50 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 2403515 Analyze 05/08/24 11:25 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 [‡]	< LOQ	0.200	mg/kg	0.0169	2403523	05/08/24 AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0169	2403523	05/08/24 AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0169	2403523	05/08/24 AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00846	2403523	05/08/24 AOAC 2013.06 (mod.) ^b	pass	



Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.0		g/100g	0.10	2403444	05/06/24 AOAC 925.10 (mod.)		
Water Activity	0.672		Aw	0.030	2403446	05/06/24 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



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Report Number: 24-004789/D001.R000
Report Date: 05/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 05/02/24 13:45



Hemp & Cannabis
Chain of Custody

Northwest-Natural-
Goods-1714603433

ORELAP ID: OR100028 ANAB ISO17025 ID: AT1508

Company Details Company: <u>Northwest Natural Goods</u>		Project Details 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 - EB 0116</u> Cannabis Type (select if applicable): <u>Industrial</u> Pick-Up Details Pick-Up Location Name: <u>Northwest Natural Goods</u>			Testing							
					H0013 - Cannabis Heavy Metals Profile OR	H0010 - Potency Cannabis (Basic-Expanded)	M263 - RAPID Yeast and Mold Count (RYM) Petrifilm	H0006 - Residual Solvents (Cannabis - Oregon)	N3600 - Water Activity & Moisture (as Loss on Drying) Food	P2320 - Multi-Residue Pesticide Profile (Cannabis)	M076 - E. coli/Coliform Count (EC) Petrifilm	
		Receipt Information Pre-Log Storage: <u>Canna Shelves</u>										
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size							
1	HEMP - EB 0116	Cannabinoid Edible	20 each	mg/g & mg/serving	4 g	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time		Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	05/01/2024	15:43	Temp., °C	BR	05/02/2024	10:17	25	No
BR	05/02/2024	13:19	16	NR	05/02/2024	13:45	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 OOC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

P: (503)254-1794
info@columbiolaboratories.com

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www.columbiolaboratories.com


 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
Diclotophos	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)


 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
Pacllobutrazol	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


Laboratory Quality Control Results
J AOAC 2015 V98-6 **Batch ID: 2403466**
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0357	0.0358	%	99.6	80.0 - 120	Acceptable	
CBDV	2	0.0343	0.0340	%	101	80.0 - 120	Acceptable	
CBE	2	0.0311	0.0315	%	98.5	80.0 - 120	Acceptable	
CBDA	1	0.0312	0.0309	%	101	90.0 - 110	Acceptable	
CBGA	1	0.0307	0.0304	%	101	80.0 - 120	Acceptable	
CBG	1	0.0344	0.0344	%	100	80.0 - 120	Acceptable	
CBD	1	0.0338	0.0335	%	101	90.0 - 110	Acceptable	
THCV	2	0.0326	0.0336	%	97.1	80.0 - 120	Acceptable	
d8THCV	2	0.0345	0.0360	%	95.9	80.0 - 120	Acceptable	
THCVA	2	0.0313	0.0318	%	98.4	80.0 - 120	Acceptable	
CBN	1	0.0314	0.0320	%	98.2	80.0 - 120	Acceptable	
exo-THC	2	0.0326	0.0331	%	98.5	80.0 - 120	Acceptable	
d9THC	1	0.0319	0.0324	%	98.4	90.0 - 110	Acceptable	
d8THC	1	0.0319	0.0323	%	98.8	90.0 - 110	Acceptable	
9S-d10THC	1	0.0320	0.0322	%	99.2	80.0 - 120	Acceptable	
CBL	2	0.0309	0.0331	%	93.6	80.0 - 120	Acceptable	
9S-HHC	3	0.0293	0.0313	%	93.4	80.0 - 120	Acceptable	
9R-d10THC	1	0.0305	0.0314	%	97.3	80.0 - 120	Acceptable	
CBC	2	0.0343	0.0349	%	98.4	80.0 - 120	Acceptable	
9R-HHC	3	0.0280	0.0294	%	95.3	80.0 - 120	Acceptable	
THCA	1	0.0305	0.0304	%	100	90.0 - 110	Acceptable	
CBCA	2	0.0337	0.0336	%	100	80.0 - 120	Acceptable	
CBLA	2	0.0340	0.0339	%	100	80.0 - 120	Acceptable	
d9THCP	2	0.0314	0.0324	%	96.8	80.0 - 120	Acceptable	
d8THCO	3	0.0333	0.0343	%	97.1	80.0 - 120	Acceptable	
CBT	2	0.0335	0.0351	%	95.4	80.0 - 120	Acceptable	
d9THCO	3	0.0312	0.0327	%	95.4	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBDV	<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	
9S-d10THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBL	<LOQ	0.00326	%	< 0.00326	Acceptable	
9S-HHC	<LOQ	0.00326	%	< 0.00326	Acceptable	
9R-d10THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBC	<LOQ	0.00326	%	< 0.00326	Acceptable	
9R-HHC	<LOQ	0.00326	%	< 0.00326	Acceptable	
THCA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBCA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBLA	<LOQ	0.00326	%	< 0.00326	Acceptable	
d9THCP	<LOQ	0.00326	%	< 0.00326	Acceptable	
d8THCO	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBT	<LOQ	0.00326	%	< 0.00326	Acceptable	
d9THCO	<LOQ	0.00326	%	< 0.00326	Acceptable	

Abbreviations

ND - None Detected at or above MRI


Laboratory Quality Control Results

AOAC 2015 V98-6			Batch ID: 2403466					
Sample Duplicate			Sample ID: 24-004749-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBG	0.00541	0.00524	0.00314	%	3.11	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBN	0.00528	0.00527	0.00314	%	0.230	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THC	0.256	0.256	0.00314	%	0.0339	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00314	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2403517			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		415	584	µg/g	71.1 60 - 120
Isobutane	ND	< 200		540	767	µg/g	70.4 60 - 120
Butane	ND	< 200		536	782	µg/g	68.5 60 - 120
2,2-Dimethylpropane	ND	< 200		690	939	µg/g	73.5 60 - 120
Methanol	ND	< 200		1190	1600	µg/g	74.4 60 - 120
Ethylene Oxide	ND	< 30		41.2	57.1	µg/g	72.2 60 - 120
2-Methylbutane	ND	< 200		1230	1600	µg/g	76.9 60 - 120
Pertane	ND	< 200		1250	1610	µg/g	77.6 60 - 120
Ethanol	ND	< 200		1240	1600	µg/g	77.5 70 - 130
Ethyl Ether	ND	< 200		1320	1600	µg/g	82.5 60 - 120
2,2-Dimethylbutane	ND	< 30		130	162	µg/g	80.2 60 - 120
Acetone	ND	< 200		1280	1600	µg/g	80.0 60 - 120
2-Propanol	ND	< 200		1230	1600	µg/g	76.9 60 - 120
Ethyl Formate	ND	< 500		3610	1630	µg/g	221.5 70 - 130 Q1
Acetonitrile	ND	< 100		352	487	µg/g	72.3 60 - 120
Methyl Acetate	ND	< 500		1320	1610	µg/g	82.0 70 - 130
2,3-Dimethylbutane	ND	< 30		119	161	µg/g	73.9 60 - 120
Dichloromethane	ND	< 60		388	483	µg/g	80.3 60 - 120
2-Methylpentane	ND	< 30		125	164	µg/g	76.2 60 - 120
MTBE	ND	< 500		1320	1610	µg/g	82.0 70 - 130
3-Methylpentane	ND	< 30		122	160	µg/g	76.3 60 - 120
Hexane	ND	< 30		133	171	µg/g	77.8 60 - 120
1-Propanol	ND	< 500		1300	1610	µg/g	80.7 70 - 130
Methylethylketone	ND	< 500		1280	1610	µg/g	79.5 70 - 130
Ethyl acetate	ND	< 200		1290	1620	µg/g	79.6 60 - 120
2-Butanol	ND	< 200		1300	1600	µg/g	81.3 60 - 120
Tetrahydrofuran	ND	< 100		417	481	µg/g	86.7 60 - 120
Cyclohexane	ND	< 200		1610	1610	µg/g	100.0 60 - 120
2-methyl-1-propanol	ND	< 500		1740	1610	µg/g	108.1 70 - 130
Benzene	ND	< 1		5.35	5.17	µg/g	103.5 60 - 120
Isopropyl Acetate	ND	< 200		1630	1600	µg/g	101.9 60 - 120
Heptane	ND	< 200		1700	1620	µg/g	104.9 60 - 120
1-Butanol	ND	< 500		1850	1610	µg/g	114.9 70 - 130
Propyl Acetate	ND	< 500		1740	1610	µg/g	108.1 70 - 130
1,4-Dioxane	ND	< 100		498	497	µg/g	100.2 60 - 120
2-Ethoxyethanol	ND	< 30		154	160	µg/g	96.3 60 - 120
Methylisobutylketone	ND	< 500		1810	1620	µg/g	111.7 70 - 130
3-Methyl-1-butanol	ND	< 500		1930	1610	µg/g	119.9 70 - 130
Ethylene Glycol	ND	< 200		408	483	µg/g	84.5 60 - 120
Toluene	ND	< 100		522	482	µg/g	108.3 60 - 120
Isobutyl Acetate	ND	< 500		1720	1620	µg/g	106.2 70 - 130
1-Pertanol	ND	< 500		1900	1610	µg/g	118.0 70 - 130
Butyl Acetate	ND	< 500		1810	1650	µg/g	109.7 70 - 130
Ethylbenzene	ND	< 200		1060	970	µg/g	109.3 60 - 120
m,p-Xylene	ND	< 200		1060	963	µg/g	110.1 60 - 120
o-Xylene	ND	< 200		1230	961	µg/g	128.0 60 - 120
Cumene	ND	< 30		221	164	µg/g	134.8 60 - 120 Q1
Anisole	ND	< 500		2320	1610	µg/g	144.1 70 - 130 Q1
DMSO	ND	< 500		1820	1610	µg/g	113.0 70 - 130
1,2-dimethoxyethane	ND	< 50		166	170	µg/g	97.6 70 - 130
Triethylamine	ND	< 500		1740	1620	µg/g	107.4 70 - 130
N,N-dimethylformamide	ND	< 150		540	499	µg/g	108.2 70 - 130
N,N-dimethylacetamide	ND	< 150		616	489	µg/g	126.0 70 - 130
Pyridine	ND	< 50		181	167	µg/g	108.4 70 - 130
Sulfolane	ND	< 50		229	169	µg/g	135.5 70 - 130 Q1
1,2-Dichloroethane	ND	< 1		1.19	1	µg/g	119.0 70 - 130
Chloroform	ND	< 1		1.05	1	µg/g	105.0 70 - 130
Trichloroethylene	ND	< 1		1.17	1	µg/g	117.0 70 - 130
1,1-Dichloroethane	ND	< 1		0.871	1	µg/g	87.1 70 - 130



QC- Sample Duplicate

Sample ID: 24-004603-0001-01

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	
Pertane	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	
Sulfone	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: 24-004789/D001.R000
Report Date: 05/09/2024
ORELAP#: OR100028
Purchase Order:
Received: 05/02/24 13:45





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.