



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



**Report Number:** 24-002695/D003.R000  
**Report Date:** 03/18/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/11/24 11:38

**Customer:** NW Natural Goods  
**Product identity:** HEMP - BB 0120  
**Client/Metric ID:** .  
**Laboratory ID:** 24-002695-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	25.5		mg/4g		CBD-Total per Serving Size 25.5 mg/4g
CBT per 4g	0.377		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 - BB 0120

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 24-002695-0001

**Evidence of Cooling:** No

**Temp:** 17.5

**Relinquished by:** shipping

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2401969	Analyze: 3/12/24 6:40:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	< LOQ		mg/4g	0.126	
CBC-A per 4g	< LOQ		mg/4g	0.126	
CBC-Total per 4g	< LOQ		mg/4g	0.237	
CBD per 4g	25.5		mg/4g	0.126	
CBD-A per 4g <sup>L</sup>	< LOQ		mg/4g	0.126	
CBD-Total per 4g <sup>L</sup>	25.5		mg/4g	0.237	
CBDV per 4g	< LOQ		mg/4g	0.126	
CBDV-A per 4g	< LOQ		mg/4g	0.126	
CBDV-Total per 4g	< LOQ		mg/4g	0.236	
CBE per 4g	< LOQ		mg/4g	0.126	
CBG per 4g	< LOQ		mg/4g	0.126	
CBG-A per 4g	< LOQ		mg/4g	0.126	
CBG-Total per 4g	< LOQ		mg/4g	0.236	
CBL per 4g	< LOQ		mg/4g	0.126	
CBL-A per 4g	< LOQ		mg/4g	0.126	
CBL-Total per 4g	< LOQ		mg/4g	0.237	
CBN per 4g	< LOQ		mg/4g	0.126	
CBT per 4g	0.377		mg/4g	0.126	
Δ8-THCV per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.252	
Δ8-THC per 4g <sup>L</sup>	< LOQ		mg/4g	0.126	
Δ9-THC per 4g <sup>L</sup>	< LOQ		mg/4g	0.126	
delta-9-THCP per 4g	< LOQ		mg/4g	0.126	
exo-THC per 4g	< LOQ		mg/4g	0.126	
THC-A per 4g <sup>L</sup>	< LOQ		mg/4g	0.126	
THC-Total per 4g	< LOQ		mg/4g	0.237	
THCV per 4g	< LOQ		mg/4g	0.126	
THCV-A per 4g	< LOQ		mg/4g	0.126	
THCV-Total per 4g	< LOQ		mg/4g	0.237	
Total Cannabinoids per 4g	25.9		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2401912	03/14/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2401912	03/14/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2401913	03/15/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2401913	03/15/24 AOAC 2014.05 (RAPID)		

**Solvents** Method: Residual Solvents by GC/MS<sup>b</sup> Units µg/g Batch 2402001 Analyze 03/14/24 11:39 AM

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 2402073 Analyze 03/18/24 01:16 PM

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



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**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic*	< LOQ	0.200	mg/kg	0.0193	2402010	03/14/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium*	< LOQ	0.200	mg/kg	0.0193	2402010	03/14/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead*	< LOQ	0.500	mg/kg	0.0193	2402010	03/14/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury*	< LOQ	0.100	mg/kg	0.00964	2402010	03/14/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2402024	03/14/24 AOAC 925.10 (mod.)		
Water Activity	0.674		Aw	0.030	2402008	03/14/24 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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

<sup>¥</sup> = TNI accredited analyte.

### Units of Measure

cfu/g = Colony forming units per gram

g = g

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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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
Dichlofluandil	0.1
Dichlorbenzamid	0.1
Dichlorvos	0.1
Diclofop	0.1
Diclofop methyl	0.1
Dicrotophos	0.1

Analyte	LOQ (mg/kg)
Dieldrin	0.1
Diethofencarb	0.1
Difenoconazol	0.1
Diflubenzuron	0.1
Diflufenzopyr	0.1
Dimethenamid	0.1
Dimethoat	0.1
Dimethomorph	0.1
Dinoseb	0.1
Dinotefuran	0.1
Dioxathion	0.1
Diphenamid	0.1
Diphenylamine (DPA)	0.1
Disulfoton	0.1
Disulfoton-sulfone	0.1
Disulfoton-Sulfoxide	0.1
Diuron	0.1
DNOC	0.1
Edifenphos	0.1
Endosulfan (alpha isomer)	0.1
Endosulfan (beta isomer)	0.1
Endosulfan-sulfate	0.1
Endrin	0.1
EPN	0.1
EPTC	0.1
Esfenvalerate/Fenvalerate	0.1
Ethiofencarb	0.1
Ethion	0.1
Ethofumesate	0.1
Ethoprophos	0.1
Etofenprox	0.1
Etozazole	0.1
Etrimfos	0.1
Famoxadone	0.1
Famphur	0.1
Fenamiphos	0.1
Fenamiphos-Sulfone	0.1
Fenamiphos-Sulfoxide	0.1
Fenazaquin	0.1
Fenbuconazole	0.1
Fenhexamid	0.1
Fenobucarb	0.1
Fenoxycarb	0.1
Fenpropathrin	0.1
Fensulfothion	0.1
Fenthion	0.1
Fenuron	0.1
Fipronil	0.1

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



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P2320 Multi-Residue Pesticide Profile  
Cannabis

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

Analyte	LOQ (mg/kg)
Mandipropamid	0.1
MCPA	0.1
MCPB	0.1
MCPP	0.1
Mecabarm	0.1
Mepanipyrim	0.1
Mesotrione	0.1
Metaxyl	0.1
Methamidophos	0.1
Methiocarb	0.1
Methiocarb sulfone	0.1
Methiocarb sulfoxide	0.1
Methomyl	0.1
Methoxyfenozide	0.1
Metolachlor	0.1
Metolcarb	0.1
Metrafenone	0.1
Mevinphos	0.1
MGK 264	0.1
Molinat	0.1
Monocrotophos	0.1
Monolinuron	0.1
Myclobutanil	0.1
Naled	0.1
Napropamide	0.1
Neburon	0.1
Norflurazon	0.1
Novaluron	0.1
Omethoat	0.1
Oryzalin	0.1
Oxadiazon	0.1
Oxadixyl	0.1
Oxamyl	0.1
Oxamyl-oxime	0.1
Oxychlorane	0.1
Oxydemeton-Methyl	0.1
Oxyfluorfen	0.1
Paclobutrazol	0.1
Paraoxon-ethyl	0.1
Paraoxon-methyl	0.1
Parathion-methyl	0.1
Penconazole	0.1
Pendimethalin	0.1
Penflufen	0.1
Penthiopyrad	0.1
Permethrin	0.1
Perthane	0.1
Phenmedipham	0.1

Analyte	LOQ (mg/kg)
Phenothrin	0.1
Phenthoate	0.1
Phorate	0.1
Phorate-Sulfone	0.1
Phorate-Sulfoxide	0.1
Phosalone	0.1
Phosmet	0.1
Phosphamidon	0.1
Phoxim	0.1
Pinoxaden	0.1
Piperonyl Butoxide	0.1
Pirimicarb	0.1
Pirimiphos-ethyl	0.1
Pirimiphos-methyl	0.1
Prallethrin	0.1
Prochloraz	0.1
Procymidone	0.1
Profenofos	0.1
Promecarb	0.1
Prometon	0.1
Prometryn	0.1
Propachlor	0.1
Propamocarb	0.1
Propanil	0.1
Propazine	0.1
Propetamophos	0.1
Propham	0.1
Propiconazole	0.1
Propoxur	0.1
Propyzamide	0.1
Prothiofos	0.1
Pyraclostrobin	0.1
Pyraflufen Ethyl	0.1
Pyrazophos	0.1
Pyrethrin	0.1
Pyridaben	0.1
Pyrimethanil	0.1
Pyriproxifen	0.1
Pyroxasulfone	0.1
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
Safufenacil	0.1

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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
Sulfoxaflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbutylazine	0.1
Terbutryn	0.1
Tetrachlorvinphos	0.1
Tetraconazole	0.1
Tetramethrin	0.1
Thiabendazol	0.1
Thiabendazol-5-hydroxy	0.1
Thiacloprid	0.1
Thiamethoxam	0.1
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-1710165019**

ORELAP ID: **OR1000028** ANAB ISO 17025 ID: **AT1508**

<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 - BB 0120</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>Testing</b> H283 - PAP-D Yeast and No. of Count (P/N) Petrifilm P2320 - Mu-tr-Residue Pesticide Profile (Cannabis) H0033 - Cannabis Heavy Metals Profile OR H0010 - Potency/Cannabis (Basic Expanded) H0008 - Residue Solvents (Cannabis - Oregon) H076 - E. coli/Coliform Count (EC) Petrifilm N3800 - Water Activity & Moisture (as Loss on Drying) Food							
<b>Receipt Information</b> [Redacted] [Redacted] [Redacted]											
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size						
1	HEMP - BB 0120	Cannabinoid Edible	20 each	mg/g & mg/serving	4 g	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	03/11/2024	06:50	Temp., °C	BR	03/11/2024	10:19	25	No
BR	03/11/2024	10:49	17.5	BR	03/11/2024	11:38	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 CDC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

P: (503) 254-1794  
[info@columbialaboratories.com](mailto:info@columbialaboratories.com)

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2401969

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0317	0.0324	%	98.0	80.0	- 120	Acceptable	
CBDV	2	0.0347	0.0352	%	98.5	80.0	- 120	Acceptable	
CBE	2	0.0350	0.0359	%	97.4	80.0	- 120	Acceptable	
CBDA	1	0.0310	0.0319	%	97.3	90.0	- 110	Acceptable	
CBGA	1	0.0307	0.0316	%	97.3	80.0	- 120	Acceptable	
CBG	1	0.0352	0.0366	%	96.0	80.0	- 120	Acceptable	
CBD	1	0.0340	0.0355	%	95.7	90.0	- 110	Acceptable	
THCV	2	0.0335	0.0345	%	97.2	80.0	- 120	Acceptable	
d8THCV	2	0.0297	0.0304	%	97.5	80.0	- 120	Acceptable	
THCVA	2	0.0317	0.0323	%	98.1	80.0	- 120	Acceptable	
CBN	1	0.0320	0.0334	%	95.8	80.0	- 120	Acceptable	
exo-THC	2	0.0326	0.0338	%	96.4	80.0	- 120	Acceptable	
d9THC	1	0.0336	0.0355	%	94.8	90.0	- 110	Acceptable	
d8THC	1	0.0320	0.0339	%	94.4	90.0	- 110	Acceptable	
9S-d10THC	1	0.0311	0.0333	%	93.3	80.0	- 120	Acceptable	
CBL	2	0.0326	0.0340	%	95.7	80.0	- 120	Acceptable	
9R-d10THC	1	0.0303	0.0326	%	93.1	80.0	- 120	Acceptable	
CBC	2	0.0331	0.0352	%	94.2	80.0	- 120	Acceptable	
THCA	1	0.0320	0.0320	%	99.9	90.0	- 110	Acceptable	
CBCA	2	0.0339	0.0346	%	97.8	80.0	- 120	Acceptable	
CBLA	2	0.0333	0.0344	%	96.7	80.0	- 120	Acceptable	
d9THCP	2	0.0306	0.0336	%	91.2	80.0	- 120	Acceptable	
CBT	2	0.0305	0.0348	%	87.9	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBDV	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBE	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBDA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBGA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBG	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBD	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCV	<LOQ	0.00305	%	< 0.00305	Acceptable	
d8THCV	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCVA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBN	<LOQ	0.00305	%	< 0.00305	Acceptable	
exo-THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
d9THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
d8THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
9S-d10THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBL	<LOQ	0.00305	%	< 0.00305	Acceptable	
9R-d10THC	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBC	<LOQ	0.00305	%	< 0.00305	Acceptable	
THCA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBCA	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBLA	<LOQ	0.00305	%	< 0.00305	Acceptable	
d9THCP	<LOQ	0.00305	%	< 0.00305	Acceptable	
CBT	<LOQ	0.00305	%	< 0.00305	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:** 24-002695/D003.R000  
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**Received:** 03/11/24 11:38

Revision: 4 Document ID: 7148  
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2401969						
Sample Duplicate		Sample ID: 24-002675-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBG	0.0249	0.0265	0.00329	%	6.27	< 20	Acceptable	
CBD	0.00405	0.00434	0.00329	%	6.94	< 20	Acceptable	
THCV	0.00762	0.00804	0.00329	%	5.45	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBN	0.0172	0.0182	0.00329	%	6.13	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d9THC	0.919	1.03	0.00329	%	11.2	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBC	0.0175	0.0185	0.00329	%	5.99	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00329	%	NA	< 20	Acceptable	
CBT	0.00367	0.00390	0.00329	%	5.92	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2402001					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		567	584	µg/g	97.1	60 - 120	
Isobutane	ND	< 200		741	767	µg/g	96.6	60 - 120	
Butane	ND	< 200		755	782	µg/g	96.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		868	939	µg/g	92.4	60 - 120	
Methanol	ND	< 200		1670	1600	µg/g	104.4	60 - 120	
Ethylene Oxide	ND	< 30		53.2	57.1	µg/g	93.2	60 - 120	
2-Methylbutane	ND	< 200		1610	1600	µg/g	100.6	60 - 120	
Pentane	ND	< 200		1600	1600	µg/g	100.0	60 - 120	
Ethanol	ND	< 200		1620	1600	µg/g	101.3	70 - 130	
Ethyl Ether	ND	< 200		1500	1600	µg/g	93.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		144	163	µg/g	88.3	60 - 120	
Acetone	ND	< 200		1470	1610	µg/g	91.3	60 - 120	
2-Propanol	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
Ethyl Formate	ND	< 500		1660	1620	µg/g	102.5	70 - 130	
Acetonitrile	ND	< 100		447	481	µg/g	92.9	60 - 120	
Methyl Acetate	ND	< 500		1710	1610	µg/g	106.2	70 - 130	
2,3-Dimethylbutane	ND	< 30		150	161	µg/g	93.2	60 - 120	
Dichloromethane	ND	< 60		403	481	µg/g	83.8	60 - 120	
2-Methylpentane	ND	< 30		149	162	µg/g	92.0	60 - 120	
MTBE	ND	< 500		1620	1610	µg/g	100.6	70 - 130	
3-Methylpentane	ND	< 30		156	163	µg/g	95.7	60 - 120	
Hexane	ND	< 30		159	163	µg/g	97.5	60 - 120	
1-Propanol	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
Methylethylketone	ND	< 500		1610	1610	µg/g	100.0	70 - 130	
Ethyl acetate	ND	< 200		1560	1610	µg/g	96.9	60 - 120	
2-Butanol	ND	< 200		1550	1600	µg/g	96.9	60 - 120	
Tetrahydrofuran	ND	< 100		412	487	µg/g	84.6	60 - 120	
Cyclohexane	ND	< 200		1270	1610	µg/g	78.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Benzene	ND	< 1		3.68	4.88	µg/g	75.4	60 - 120	
Isopropyl Acetate	ND	< 200		1480	1610	µg/g	91.9	60 - 120	
Heptane	ND	< 200		1460	1600	µg/g	91.3	60 - 120	
1-Butanol	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Propyl Acetate	ND	< 500		1690	1610	µg/g	105.0	70 - 130	
1,4-Dioxane	ND	< 100		390	484	µg/g	80.6	60 - 120	
2-Ethoxyethanol	ND	< 30		199	162	µg/g	122.8	60 - 120	Q1
Methylisobutylketone	ND	< 500		1660	1630	µg/g	101.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
Ethylene Glycol	ND	< 200		564	496	µg/g	113.7	60 - 120	
Toluene	ND	< 100		380	486	µg/g	78.2	60 - 120	
Isobutyl Acetate	ND	< 500		1660	1610	µg/g	103.1	70 - 130	
1-Pentanol	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
Butyl Acetate	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
Ethylbenzene	ND	< 200		751	961	µg/g	78.1	60 - 120	
m,p-Xylene	ND	< 200		752	973	µg/g	77.3	60 - 120	
o-Xylene	ND	< 200		728	963	µg/g	75.6	60 - 120	
Cumene	ND	< 30		118	164	µg/g	72.0	60 - 120	
Anisole	ND	< 500		1340	1600	µg/g	83.8	70 - 130	
DMSO	ND	< 500		1460	1610	µg/g	90.7	70 - 130	
1,2-dimethoxyethane	ND	< 50		385	170	µg/g	108.8	70 - 130	
Triethylamine	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
N,N-dimethylformamide	ND	< 150		428	482	µg/g	88.8	70 - 130	
N,N-dimethylacetamide	ND	< 150		484	488	µg/g	99.2	70 - 130	
Pyridine	ND	< 50		153	164	µg/g	93.3	70 - 130	
Sulfone	ND	< 50		132	169	µg/g	78.1	70 - 130	
1,2-Dichloroethane	ND	< 1		1.12	1	µg/g	112.0	70 - 130	
Chloroform	ND	< 1		1.07	1	µg/g	107.0	70 - 130	
Trichloroethylene	ND	< 1		1	1	µg/g	100.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.21	1	µg/g	121.0	70 - 130	



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QC - Sample Duplicate		Sample ID: 24-002695-0001						
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	
Methyl ethyl ketone	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:** 24-002695/D003.R000  
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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.