



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



**Report Number:** 24-004581/D001.R000  
**Report Date:** 05/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/26/24 13:31

**Customer:** NW Natural Goods  
**Product identity:** BEV - BP 024115-1  
**Client/Metric ID:** .  
**Laboratory ID:** 24-004581-0001

### Summary

**Potency:**

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	25.0		mg/355ml		CBD-Total per Serving Size 25.0 mg/355ml
CBG per 355ml	0.572		mg/355ml		
CBN per 355ml	7.02		mg/355ml		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:** BEV - BP 024115-1  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-004581-0001  
**Evidence of Cooling:** No  
**Temp:** 15.3  
**Relinquished by:** client  
**Serving Size #1:** 362.1 g  
**Density:** 1.020 g/ml

### Sample Results

Potency per 355ml	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2403349	Analyze: 5/1/24 8:41:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 355ml	< LOQ		mg/355ml	0.359	
CBC-A per 355ml	< LOQ		mg/355ml	0.359	
CBC-Total per 355ml	< LOQ		mg/355ml	0.673	
CBD per 355ml	25.0		mg/355ml	0.359	
CBD-A per 355ml	< LOQ		mg/355ml	0.359	
CBD-Total per 355ml	25.0		mg/355ml	0.673	
CBDV per 355ml	< LOQ		mg/355ml	0.359	
CBDV-A per 355ml	< LOQ		mg/355ml	0.359	
CBDV-Total per 355ml	< LOQ		mg/355ml	0.670	
CBE per 355ml	< LOQ		mg/355ml	0.359	
CBG per 355ml	0.572		mg/355ml	0.359	
CBG-A per 355ml	< LOQ		mg/355ml	0.359	
CBG-Total per 355ml	< LOQ		mg/355ml	0.670	
CBL per 355ml	< LOQ		mg/355ml	0.359	
CBL-A per 355ml	< LOQ		mg/355ml	0.359	
CBL-Total per 355ml	< LOQ		mg/355ml	0.673	
CBN per 355ml	7.02		mg/355ml	0.359	
CBT per 355ml	< LOQ		mg/355ml	0.359	
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.359	
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.359	
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.359	
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.717	
Δ8-THC per 355ml	< LOQ		mg/355ml	0.359	
Δ9-THC per 355ml	< LOQ		mg/355ml	0.359	
delta-9-THCP per 355ml	< LOQ		mg/355ml	0.359	
exo-THC per 355ml	< LOQ		mg/355ml	0.359	
THC-A per 355ml	< LOQ		mg/355ml	0.359	
THC-Total per 355ml	< LOQ		mg/355ml	0.673	
THCV per 355ml	< LOQ		mg/355ml	0.359	
THCV-A per 355ml	< LOQ		mg/355ml	0.359	
THCV-Total per 355ml	< LOQ		mg/355ml	0.674	



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Potency per 355ml	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2403349	Analyze: 5/1/24	8:41:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 355ml	32.6		mg/355ml		

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2403204	04/29/24 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2403202	04/29/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2403202	04/29/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2403203	04/30/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2403203	04/30/24 AOAC 2014.05 (RAPID)		

Solvents	Method: Residual Solvents by HS-GC-MS <sup>b</sup>					Units µg/g	Batch 2403361	Analyze 05/02/24 01:02 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 2403359	Analyze 05/02/24 12:41 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 <sup>‡</sup>	< LOQ	0.200	mg/kg	0.00390	2403278	04/29/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.00390	2403278	04/29/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.00390	2403278	04/29/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00195	2403278	04/29/24 AOAC 2013.06 (mod.) <sup>P</sup>	pass	

**Mycotoxins**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1	< LOQ		µg/kg	5.00	2403321	05/01/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin B2	< LOQ		µg/kg	5.00	2403321	05/01/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin G1	< LOQ		µg/kg	5.00	2403321	05/01/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin G2	< LOQ		µg/kg	5.00	2403321	05/01/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2403321	05/01/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		05/03/24 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>	pass	



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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/ml = Gram per milliliter

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/355ml = Milligram per 355ml

% = Percentage of sample

% 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
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
Etoxazole	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)

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

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


 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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**Purchase Order:**  
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P2320 Multi-Residue Pesticide Profile  
 Cannabis

Analyte	LOQ (mg/kg)
Sebuthylazin	0.1
Sethoxydim	0.1
Simazine	0.1
Simetryn	0.1
Spinetoram J/L	0.1
Spinosyn A/D	0.1
Spirodiclofen	0.1
Spiromesifen	0.1
Spirotetramat	0.1
Spiroxamine	0.1
Sulfentrazone	0.1
Sulfotep	0.1
Sulfoxafflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbuthylazine	0.1
Terbutryn	0.1
Tetrachlorvinphos	0.1
Tetraconazole	0.1
Tetramethrin	0.1
Thiabendazol	0.1
Thiabendazol-5-hydroxy	0.1
Thiacloprid	0.1
Thiamethoxam	0.1
Thiobencarb	0.1
Thiodicarb	0.1
Thiometon	0.1
Thiophanate-methyl	0.2
Tolfenpyrad	0.1
Tolyfluanid	0.1
Triadimefon	0.1
Triadimenol	0.1
Triazophos	0.1
Trifloxystrobin	0.1
Triflumizole	0.1
Triticonazole	0.1
Zoxamid	0.1

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

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





**NW-Natural-Goods-  
Chain of Custody**  
1774077446

**Hemp & Cannabis  
Chain of Custody**

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

<b>Company Details</b> Company: NW Natural Goods		<b>Project Details</b> Turnaround Time: 5 Business Days   Req. For Micro Testing   Standard Relinquishment   Sampling, Courier & Shipping Options: Pick-Up Counter Service Compliance: Compliance	
<b>Pick-Up Details</b> Pick-Up Location Name: NW Natural Goods Pre-Log Storage: Carma Shelves		<b>Reporting Unit</b> mg/L & mg/serving	
<b>Sample Name</b> BEV-BF-02-2115-1	<b>Material</b> Cannabidiol Beverage	<b>Amount Provided</b> 4 each	<b>Serving Size</b> 355 g
Testing			
H0042 - Afrikahns+Chakra+H   CLOC	✓		
MTC0 - Micro Profile D	✓		
H0008 - Festival Sweets (Cannabis - Oregon)	✓		
H0013 - Cannabis Heavy Metals Profile CR	✓		
P2320 - Multi-Residue Pesticide Profile (Cannabis)	✓		
H0010 - Potency Cannabis (Basic+Expanded)	✓		

Reinquired By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
Chelsea Hood	04/25/2024	13:37	BR	04/26/2024	10:29	25	No
BR	04/26/2024	12:25	NR	04/26/2024	13:31	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 ORELAP. By signing their requisitory, you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

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12423 NE Whitaker Way  
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 503-254-1794



Report Number: 24-004581/D001.R000  
 Report Date: 05/03/2024  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 04/26/24 13:31

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2403349

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.00100	0.00109	%	92.4	80.0 - 120	Acceptable	
CBDV	2	0.00106	0.00103	%	103	80.0 - 120	Acceptable	
CBE	2	0.0009	0.0010	%	99.2	80.0 - 120	Acceptable	
CBDA	1	0.0009	0.0009	%	91.5	90.0 - 110	Acceptable	
CBGA	1	0.0008	0.0009	%	92.2	80.0 - 120	Acceptable	
CBG	1	0.00100	0.00104	%	96.2	80.0 - 120	Acceptable	
CBD	1	0.00102	0.00102	%	100.0	90.0 - 110	Acceptable	
THCV	2	0.00105	0.00102	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.00111	0.00109	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0009	0.0010	%	91.5	80.0 - 120	Acceptable	
CBN	1	0.0010	0.0010	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.00103	0.00100	%	103	80.0 - 120	Acceptable	
d9THC	1	0.00101	0.0010	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0010	0.0010	%	101	90.0 - 110	Acceptable	
9S-d10THC	1	0.0010	0.0010	%	101	80.0 - 120	Acceptable	
CBL	2	0.00103	0.0010	%	104	80.0 - 120	Acceptable	
9R-d10THC	1	0.0010	0.0009	%	100	80.0 - 120	Acceptable	
CBC	2	0.00108	0.00105	%	103	80.0 - 120	Acceptable	
THCA	1	0.0008	0.0009	%	91.3	90.0 - 110	Acceptable	
CBCA	2	0.0009	0.00100	%	87.4	80.0 - 120	Acceptable	
CBLA	2	0.0009	0.00102	%	92.6	80.0 - 120	Acceptable	
d9THCP	2	0.00101	0.0010	%	104	80.0 - 120	Acceptable	
CBT	2	0.00108	0.00107	%	101	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9S-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable	
9R-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
d9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBT	<LOQ	0.0001	%	< 0.0001	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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**Report Number:** 24-004581/D001.R000  
**Report Date:** 05/03/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/26/24 13:31

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

**Laboratory Quality Control Results**

AOAC 2015 V98-6		Batch ID: 2403349						
Sample Duplicate		Sample ID: 24-004498-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.0002	0.0002	0.0001	%	2.22	< 20	Acceptable	
CBD	0.00653	0.00637	0.0001	%	2.54	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0001	%	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: 2403361			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec Limits Notes
Propane	ND	< 200		589	584	µg/g	100.9 60 - 120
Isobutane	ND	< 200		706	767	µg/g	92.0 60 - 120
Butane	ND	< 200		696	782	µg/g	89.0 60 - 120
2,2-Dimethylpropane	ND	< 200		880	939	µg/g	93.7 60 - 120
Methanol	ND	< 200		1670	1600	µg/g	104.4 60 - 120
Ethylene Oxide	ND	< 30		52.9	57.1	µg/g	92.6 60 - 120
2-Methylbutane	ND	< 200		1620	1600	µg/g	101.3 60 - 120
Pentane	ND	< 200		1520	1600	µg/g	95.0 60 - 120
Ethanol	ND	< 200		1530	1600	µg/g	95.6 70 - 130
Ethyl Ether	ND	< 200		1730	1600	µg/g	108.1 60 - 120
2,2-Dimethylbutane	ND	< 30		172	163	µg/g	105.5 60 - 120
Acetone	ND	< 200		1690	1610	µg/g	105.0 60 - 120
2-Propanol	ND	< 200		1640	1600	µg/g	102.5 60 - 120
Ethyl Formate	ND	< 500		1630	1620	µg/g	100.6 70 - 130
Acetonitrile	ND	< 100		481	481	µg/g	100.0 60 - 120
Methyl Acetate	ND	< 500		1670	1610	µg/g	103.7 70 - 130
2,3-Dimethylbutane	ND	< 30		164	161	µg/g	101.9 60 - 120
Dichloromethane	ND	< 60		492	481	µg/g	102.3 60 - 120
2-Methylpentane	ND	< 30		164	162	µg/g	101.2 60 - 120
MTBE	ND	< 500		1660	1610	µg/g	103.1 70 - 130
3-Methylpentane	ND	< 30		167	163	µg/g	102.5 60 - 120
Hexane	ND	< 30		172	163	µg/g	105.5 60 - 120
1-Propanol	ND	< 500		1680	1600	µg/g	105.0 70 - 130
Methylethylketone	ND	< 500		1720	1610	µg/g	106.8 70 - 130
Ethyl acetate	ND	< 200		1680	1610	µg/g	104.3 60 - 120
2-Butanol	ND	< 200		1680	1600	µg/g	105.0 60 - 120
Tetrahydrofuran	ND	< 100		524	487	µg/g	107.6 60 - 120
Cyclohexane	ND	< 200		1770	1610	µg/g	109.9 60 - 120
2-methyl-1-propanol	ND	< 500		1840	1610	µg/g	114.3 70 - 130
Benzene	ND	< 1		5.2	4.88	µg/g	106.6 60 - 120
Isopropyl Acetate	ND	< 200		1750	1610	µg/g	108.7 60 - 120
Heptane	ND	< 200		1780	1600	µg/g	111.3 60 - 120
1-Butanol	ND	< 500		1820	1610	µg/g	113.0 70 - 130
Propyl Acetate	ND	< 500		1880	1610	µg/g	116.8 70 - 130
1,4-Dioxane	ND	< 100		524	484	µg/g	108.3 60 - 120
2-Ethoxyethanol	ND	< 30		164	162	µg/g	101.2 60 - 120
Methylisobutylketone	ND	< 500		1890	1630	µg/g	116.0 70 - 130
3-Methyl-1-butanol	ND	< 500		1900	1610	µg/g	118.0 70 - 130
Ethylene Glycol	ND	< 200		406	496	µg/g	81.9 60 - 120
Toluene	ND	< 100		534	486	µg/g	109.9 60 - 120
Isobutyl Acetate	ND	< 500		1860	1610	µg/g	115.5 70 - 130
1-Pentanol	ND	< 500		1870	1600	µg/g	116.9 70 - 130
Butyl Acetate	ND	< 500		1880	1600	µg/g	117.5 70 - 130
Ethylbenzene	ND	< 200		1080	961	µg/g	112.4 60 - 120
m,p-Xylene	ND	< 200		1100	973	µg/g	113.1 60 - 120
o-Xylene	ND	< 200		1120	963	µg/g	116.3 60 - 120
Cumene	ND	< 30		187	164	µg/g	114.0 60 - 120
Anisole	ND	< 500		2000	1600	µg/g	125.0 70 - 130
DMSO	ND	< 500		1730	1610	µg/g	107.5 70 - 130
1,2-dimethoxyethane	ND	< 50		190	170	µg/g	111.8 70 - 130
Triethylamine	ND	< 500		1890	1600	µg/g	118.1 70 - 130
N,N-dimethylformamide	ND	< 150		541	482	µg/g	112.2 70 - 130
N,N-dimethylacetamide	ND	< 150		588	488	µg/g	120.5 70 - 130
Pyridine	ND	< 50		185	164	µg/g	112.8 70 - 130
Sulfolane	ND	< 50		189	169	µg/g	111.8 70 - 130



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Report Date: 05/03/2024  
ORELAP#: OR100028  
Purchase Order:  
Received: 04/26/24 13:31

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

QC- Sample Duplicate

Sample ID: 24-004549-0001

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	244	248	200	µg/g	1.6	< 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	

**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.