



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



**Report Number:** 23-001275/D002.R000  
**Report Date:** 02/07/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/31/23 10:44

**Customer:** NW Natural Goods  
**Product identity:** HEMP - EB 0065  
**Client/Metric ID:** .  
**Laboratory ID:** 23-001275-0001

### Summary

#### Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.246		mg/4g		CBD-Total per Serving Size 27.4 mg/4g
CBD per 4g	27.4		mg/4g		
CBG per 4g	0.792		mg/4g		THC-Total per Serving Size <LOQ
CBN per 4g	5.24		mg/4g		(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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**Product identity:** HEMP - EB 0065

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-001275-0001

**Evidence of Cooling:** No

**Temp:** 16.3 °C

**Relinquished by:** Hinton

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>					
Units mg/se Batch: 2301078 Analyze: 2/2/23 8:31:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.246		mg/4g	0.123	
CBC-A per 4g	< LOQ		mg/4g	0.123	
CBC-Total per 4g	0.246		mg/4g	0.231	
CBD per 4g	27.4		mg/4g	0.123	
CBD-A per 4g	< LOQ		mg/4g	0.123	
CBD-Total per 4g	27.4		mg/4g	0.231	
CBDV per 4g	< LOQ		mg/4g	0.123	
CBDV-A per 4g	< LOQ		mg/4g	0.123	
CBDV-Total per 4g	< LOQ		mg/4g	0.230	
CBE per 4g	< LOQ		mg/4g	0.123	
CBG per 4g	0.792		mg/4g	0.123	
CBG-A per 4g	< LOQ		mg/4g	0.123	
CBG-Total per 4g	0.792		mg/4g	0.230	
CBL per 4g	< LOQ		mg/4g	0.123	
CBL-A per 4g	< LOQ		mg/4g	0.123	
CBL-Total per 4g	< LOQ		mg/4g	0.231	
CBN per 4g	5.24		mg/4g	0.123	
CBT per 4g	< LOQ		mg/4g	0.123	
Δ8-THCV per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.123	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.247	
Δ8-THC per 4g	< LOQ		mg/4g	0.123	
Δ9-THC per 4g	< LOQ		mg/4g	0.123	
exo-THC per 4g	< LOQ		mg/4g	0.123	
THC-A per 4g	< LOQ		mg/4g	0.123	
THC-Total per 4g	< LOQ		mg/4g	0.231	
THCV per 4g	< LOQ		mg/4g	0.123	
THCV-A per 4g	< LOQ		mg/4g	0.123	
THCV-Total per 4g	< LOQ		mg/4g	0.232	
Total Cannabinoids per 4g	33.8		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300964	02/03/23 AOAC 991.14 (Petrifilm) <sup>®</sup>		
Total Coliforms	< LOQ		cfu/g	10	2300964	02/03/23 AOAC 991.14 (Petrifilm) <sup>®</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300965	02/04/23 AOAC 2014.05 (RAPID) <sup>®</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300965	02/04/23 AOAC 2014.05 (RAPID) <sup>®</sup>		

**Solvents Method: Residual Solvents by GC/MS<sup>®</sup> Units µg/g Batch 2301066 Analyze 02/03/23 11:33 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)<sup>®</sup> Units mg/kg Batch 2301069 Analyze 02/06/23 02:03 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	0.0161	2301089	02/03/23 AOAC 2013.06 (mod.) <sup>®</sup>	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0161	2301089	02/03/23 AOAC 2013.06 (mod.) <sup>®</sup>	pass	
Lead	< LOQ	0.500	mg/kg	0.0161	2301089	02/03/23 AOAC 2013.06 (mod.) <sup>®</sup>	pass	
Mercury	< LOQ	0.100	mg/kg	0.00807	2301089	02/03/23 AOAC 2013.06 (mod.) <sup>®</sup>	pass	



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**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.9		g/100g	0.10	2301040	02/02/23 AOAC 925.10 (mod.) <sup>p</sup>		
Water Activity	0.699		Aw	0.030	2300974	02/01/23 AOAC 978.18 <sup>p</sup>		



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These test results are representative of the individual sample selected and submitted by the client.

**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.

**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
Crotoxiphos	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
Malaonox	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: Usable / Extract / Finished Product**  
**Chain of Custody Record**

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

NWNATURALGOODS 23-001275



<b>Company:</b> Northwest Natural Goods <b>Contact:</b> Annie Nair <b>Address:</b> 11791 SE HWY 212 <b>City:</b> Clackamas <b>State:</b> OR <b>Zip Code:</b> 97015 <input checked="" type="checkbox"/> <b>Email Results:</b> annienair@nwnaturalgoods.com <input type="checkbox"/> <b>Ph:</b> ( ) - <i>Billing Contact (if different)</i> <b>Name:</b> <b>Email:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Ph:</b> ( ) -			<b>Analysis Requested</b> Pesticides - OR 59 Compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Water Activity Moisture Micro: Yeast and Mold Micro: E. Coli and Total Coliform Heavy Metals Mycotoxins										<b>PO Number:</b> NW Natural Goods <b>Project ID:</b> <b>Batch ID:</b> <b>Sampled by:</b> <b>Custom Reporting:</b>		
<b>Source Material:</b> <input type="checkbox"/> - Ind. Hemp product   <input type="checkbox"/> - Rec. Cannabis <b>Reporting Type:</b> <input type="checkbox"/> - Compliance   <input type="checkbox"/> - R&D <b>Report to:</b> <input type="checkbox"/> - METRC   <input type="checkbox"/> - ODA   <input type="checkbox"/> - USDA   <input type="checkbox"/> - Other:			<b>Turnaround time (TAT - Business Days):</b> <input checked="" type="checkbox"/> - 5BD   <input type="checkbox"/> - 3BD*   <input type="checkbox"/> - 2BD* <i>*Check for availability</i>												
Lab ID	Client Sample Identification	Sample date	Pesticides - OR 59 Compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Material Type †	Weight (Units)	Comments/Metrc ID
	HEMP - EB 0065	01/31/23	✓	✓	✓	✓	✓	✓	✓	✓	✓			80g	
<b>Signature - Relinquished By:</b> Annie Nair <b>Date:</b> 01/31/23 <b>Time:</b> 10:44			<b>Signature - Received By:</b> MRA <b>Date:</b> 1/31 <b>Time:</b> 10:17			<b>Signature - Received By:</b> RS <b>Date:</b> 01/31/23 <b>Time:</b> 10:44			<b>Lab Use Only:</b> <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (°C): 16.3 Sample in good condition: <input type="checkbox"/> Yes   <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: Prelog storage:						

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms  
 12423 NE Whitaker Way  
 Portland, OR 97230  
 P: (503) 254-1794 | Fax: (503) 254-1452  
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Report Number: 23-001275/D002.R000  
 Report Date: 02/07/2023  
 ORELAP#: OR100028  
 Purchase Order:  
 Received: 01/31/23 10:44

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2301066					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		567	572	µg/g	99.1	60 - 120	
Isobutane	ND	< 200		747	731	µg/g	102.2	60 - 120	
Butane	ND	< 200		732	731	µg/g	100.1	60 - 120	
2,2-Dimethylpropane	ND	< 200		914	936	µg/g	97.6	60 - 120	
Methanol	ND	< 200		1780	1620	µg/g	109.9	60 - 120	
Ethylene Oxide	ND	< 30		55.6	56.2	µg/g	98.9	60 - 120	
2-Methylbutane	ND	< 200		1730	1610	µg/g	107.5	60 - 120	
Pentane	ND	< 200		1730	1600	µg/g	108.1	60 - 120	
Ethanol	ND	< 200		1770	1610	µg/g	109.9	70 - 130	
Ethyl Ether	ND	< 200		1770	1630	µg/g	108.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		190	171	µg/g	111.1	60 - 120	
Acetone	ND	< 200		1760	1630	µg/g	108.0	60 - 120	
2-Propanol	ND	< 200		1770	1620	µg/g	109.3	60 - 120	
Ethyl Formate	ND	< 500		1780	1670	µg/g	106.6	70 - 130	
Acetonitrile	ND	< 100		527	498	µg/g	105.8	60 - 120	
Methyl Acetate	ND	< 500		1740	1730	µg/g	100.6	70 - 130	
2,3-Dimethylbutane	ND	< 30		191	171	µg/g	111.7	60 - 120	
Dichloromethane	ND	< 60		524	483	µg/g	108.5	60 - 120	
2-Methylpentane	ND	< 30		174	168	µg/g	103.6	60 - 120	
MTBE	ND	< 500		1660	1650	µg/g	100.6	70 - 130	
3-Methylpentane	ND	< 30		167	167	µg/g	100.0	60 - 120	
Hexane	ND	< 30		234	182	µg/g	128.6	60 - 120	Q1
1-Propanol	ND	< 500		1580	1620	µg/g	97.5	70 - 130	
Methylethylketone	ND	< 500		1600	1620	µg/g	98.8	70 - 130	
Ethyl acetate	ND	< 200		1710	1610	µg/g	106.2	60 - 120	
2-Butanol	ND	< 200		1700	1600	µg/g	106.3	60 - 120	
Tetrahydrofuran	ND	< 100		509	483	µg/g	105.4	60 - 120	
Cyclohexane	ND	< 200		1700	1610	µg/g	105.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1540	1620	µg/g	95.1	70 - 130	
Benzene	ND	< 1		5.87	5.02	µg/g	116.9	60 - 120	
Isopropyl Acetate	ND	< 200		1730	1620	µg/g	106.8	60 - 120	
Heptane	ND	< 200		1700	1610	µg/g	105.6	60 - 120	
1-Butanol	ND	< 500		1580	1630	µg/g	96.9	70 - 130	
Propyl Acetate	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
1,4-Dioxane	ND	< 100		511	491	µg/g	104.1	60 - 120	
2-Ethoxyethanol	ND	< 30		176	181	µg/g	97.2	60 - 120	
Methylisobutylketone	ND	< 500		1510	1620	µg/g	93.2	70 - 130	
3-Methyl-1-butanol	ND	< 500		1500	1630	µg/g	92.0	70 - 130	
Ethylene Glycol	ND	< 200		392	484	µg/g	81.0	60 - 120	
Toluene	ND	< 100		494	485	µg/g	101.9	60 - 120	
Isobutyl Acetate	ND	< 500		1490	1630	µg/g	91.4	70 - 130	
1-Pentanol	ND	< 500		1410	1620	µg/g	87.0	70 - 130	
Butyl Acetate	ND	< 500		1420	1620	µg/g	87.7	70 - 130	
Ethylbenzene	ND	< 200		946	969	µg/g	97.6	60 - 120	
m,p-Xylene	ND	< 200		961	994	µg/g	96.7	60 - 120	
o-Xylene	ND	< 200		919	967	µg/g	95.0	60 - 120	
Cumene	ND	< 30		165	171	µg/g	96.5	60 - 120	
Anisole	ND	< 500		1430	1630	µg/g	87.7	70 - 130	
DMSO	ND	< 500		1380	1680	µg/g	82.1	70 - 130	
1,2-dimethoxyethane	ND	< 50		161	169	µg/g	95.3	70 - 130	
Triethylamine	ND	< 500		1540	1630	µg/g	94.5	70 - 130	
N,N-dimethylformamide	ND	< 150		429	482	µg/g	89.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		421	510	µg/g	82.5	70 - 130	
Pyridine	ND	< 50		181	203	µg/g	89.2	70 - 130	
Sulfone	ND	< 50		140	172	µg/g	81.4	70 - 130	
1,2-Dichloroethane	ND	< 1		1	1	µg/g	100.0	70 - 130	
Chloroform	ND	< 1		0.943	1	µg/g	94.3	70 - 130	
Trichloroethylene	ND	< 1		0.969	1	µg/g	96.9	70 - 130	
1,1-Dichloroethane	ND	< 1		0.958	1	µg/g	95.8	70 - 130	



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**Report Number:** 23-001275/D002.R000  
**Report Date:** 02/07/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/31/23 10:44

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

QC - Sample Duplicate		Sample ID: 23-001102-0001						
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	249	ND	200	µg/g	21.8	< 20	FAIL	R2
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

R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

**Units of Measure:**

µg/g- Microgram per gram or ppm



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 503-254-1794



**Report Number:** 23-001275/D002.R000  
**Report Date:** 02/07/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/31/23 10:44

Revision: 1 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2301078

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0298	0.033	%	89.3	80.0	- 120	Acceptable	
CBDV	2	0.0321	0.033	%	96.2	80.0	- 120	Acceptable	
CBE	2	0.0311	0.033	%	93.3	80.0	- 120	Acceptable	
CBD	1	0.0372	0.037	%	101	90.0	- 110	Acceptable	
CBD <sup>A</sup>	1	0.0377	0.037	%	102	80.0	- 120	Acceptable	
CBC	1	0.0389	0.038	%	102	80.0	- 120	Acceptable	
CBD	1	0.0372	0.038	%	98.5	90.0	- 110	Acceptable	
THCV	2	0.0307	0.033	%	92.0	80.0	- 120	Acceptable	
δ8THCV	2	0.0308	0.033	%	92.3	80.0	- 120	Acceptable	
THCVA	2	0.0284	0.033	%	85.1	80.0	- 120	Acceptable	
CBN	1	0.0393	0.039	%	100	80.0	- 120	Acceptable	
exo-THC	2	0.0293	0.033	%	87.9	80.0	- 120	Acceptable	
δ9THC	1	0.0392	0.040	%	99.1	90.0	- 110	Acceptable	
δ8THC	1	0.0364	0.040	%	91.2	90.0	- 110	Acceptable	
9S-THC	1	0.0189	0.020	%	93.7	80.0	- 120	Acceptable	
CBL	2	0.0288	0.033	%	86.5	80.0	- 120	Acceptable	
9S-HHC	3	0.0316	0.033	%	94.8	80.0	- 120	Acceptable	
9R-THC	1	0.0174	0.018	%	95.2	80.0	- 120	Acceptable	
CBC	2	0.0294	0.033	%	88.3	80.0	- 120	Acceptable	
9R-HHC	3	0.0283	0.033	%	85.0	80.0	- 120	Acceptable	
THCA	1	0.0379	0.036	%	105	90.0	- 110	Acceptable	
CBCA	2	0.0304	0.033	%	91.1	80.0	- 120	Acceptable	
CBLA	2	0.0306	0.033	%	91.8	80.0	- 120	Acceptable	
δ8THCO	3	0.0331	0.033	%	99.3	80.0	- 120	Acceptable	
CBT	2	0.0286	0.033	%	85.9	80.0	- 120	Acceptable	
δ9THCO	3	0.0328	0.033	%	98.3	80.0	- 120	Acceptable	

Method Blank									
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes		
CBDVA	<LOQ	0.003	%	< 0.003		Acceptable			
CBDV	<LOQ	0.003	%	< 0.003		Acceptable			
CBE	<LOQ	0.003	%	< 0.003		Acceptable			
CBD	<LOQ	0.003	%	< 0.003		Acceptable			
CBD <sup>A</sup>	<LOQ	0.003	%	< 0.003		Acceptable			
CBC	<LOQ	0.003	%	< 0.003		Acceptable			
CBD	<LOQ	0.003	%	< 0.003		Acceptable			
THCV	<LOQ	0.003	%	< 0.003		Acceptable			
δ8THCV	<LOQ	0.003	%	< 0.003		Acceptable			
THCVA	<LOQ	0.003	%	< 0.003		Acceptable			
CBN	<LOQ	0.003	%	< 0.003		Acceptable			
exo-THC	<LOQ	0.003	%	< 0.003		Acceptable			
δ9THC	<LOQ	0.003	%	< 0.003		Acceptable			
δ8THC	<LOQ	0.003	%	< 0.003		Acceptable			
9S-THC	<LOQ	0.003	%	< 0.003		Acceptable			
CBL	<LOQ	0.003	%	< 0.003		Acceptable			
9S-HHC	<LOQ	0.003	%	< 0.003		Acceptable			
9R-THC	<LOQ	0.003	%	< 0.003		Acceptable			
CBC	<LOQ	0.003	%	< 0.003		Acceptable			
9R-HHC	<LOQ	0.003	%	< 0.003		Acceptable			
THCA	<LOQ	0.003	%	< 0.003		Acceptable			
CBCA	<LOQ	0.003	%	< 0.003		Acceptable			
CBLA	<LOQ	0.003	%	< 0.003		Acceptable			
δ8THCO	<LOQ	0.003	%	< 0.003		Acceptable			
CBT	<LOQ	0.003	%	< 0.003		Acceptable			
δ9THCO	<LOQ	0.003	%	< 0.003		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:** 23-001275/D002.R000  
**Report Date:** 02/07/2023  
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Revision: 1 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2301078						
Sample Duplicate		Sample ID: 23-001026-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0388	0.0389	0.003	%	0.437	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD <sup>A</sup>	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD <sup>B</sup>	0.0133	0.0134	0.003	%	1.38	< 20	Acceptable	
CBD	2.93	2.94	0.003	%	0.244	< 20	Acceptable	
THCV	0.0056	0.0054	0.003	%	2.65	< 20	Acceptable	
Δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV/A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0121	0.0122	0.003	%	0.783	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ9THC	0.210	0.213	0.003	%	1.14	< 20	Acceptable	
Δ8THC	0.0341	0.0327	0.003	%	4.30	< 20	Acceptable	
9S-Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-FHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.0042	0.0042	0.003	%	0.994	< 20	Acceptable	
9R-FHC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ8THCO	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0215	0.0219	0.003	%	1.65	< 20	Acceptable	
Δ9THCO	<LOQ	<LOQ	0.003	%	NA	< 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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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.