



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



**Report Number:** 24-002871/D001.R000  
**Report Date:** 03/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/24 11:51

**Customer:** NW Natural Goods  
**Product identity:** HEMP - HB 0108  
**Client/Metric ID:** .  
**Laboratory ID:** 24-002871-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	25.0		mg/4g		CBD-Total per Serving Size 25.0 mg/4g
CBT per 4g	0.366		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 - HB 0108

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 24-002871-0001

**Evidence of Cooling:** No

**Temp:** 18.2

**Relinquished by:** ramos

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2402078	Analyze: 3/15/24 6:58:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	< LOQ		mg/4g	0.127	
CBC-A per 4g	< LOQ		mg/4g	0.127	
CBC-Total per 4g	< LOQ		mg/4g	0.238	
CBD per 4g	25.0		mg/4g	0.127	
CBD-A per 4g <sup>L</sup>	< LOQ		mg/4g	0.127	
CBD-Total per 4g <sup>L</sup>	25.0		mg/4g	0.238	
CBDV per 4g	< LOQ		mg/4g	0.127	
CBDV-A per 4g	< LOQ		mg/4g	0.127	
CBDV-Total per 4g	< LOQ		mg/4g	0.237	
CBE per 4g	< LOQ		mg/4g	0.127	
CBG per 4g	< LOQ		mg/4g	0.127	
CBG-A per 4g	< LOQ		mg/4g	0.127	
CBG-Total per 4g	< LOQ		mg/4g	0.237	
CBL per 4g	< LOQ		mg/4g	0.127	
CBL-A per 4g	< LOQ		mg/4g	0.127	
CBL-Total per 4g	< LOQ		mg/4g	0.238	
CBN per 4g	< LOQ		mg/4g	0.127	
CBT per 4g	0.366		mg/4g	0.127	
Δ8-THCV per 4g	< LOQ		mg/4g	0.127	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.127	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.127	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.254	
Δ8-THC per 4g <sup>L</sup>	< LOQ		mg/4g	0.127	
Δ9-THC per 4g <sup>L</sup>	< LOQ		mg/4g	0.127	
delta-9-THCP per 4g	< LOQ		mg/4g	0.127	
exo-THC per 4g	< LOQ		mg/4g	0.127	
THC-A per 4g <sup>L</sup>	< LOQ		mg/4g	0.127	
THC-Total per 4g	< LOQ		mg/4g	0.238	
THCV per 4g	< LOQ		mg/4g	0.127	
THCV-A per 4g	< LOQ		mg/4g	0.127	
THCV-Total per 4g	< LOQ		mg/4g	0.238	
Total Cannabinoids per 4g	25.4		mg/4g		

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 333-007-0430



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402015	03/17/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402015	03/17/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402016	03/18/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402016	03/18/24 AOAC 2014.05 (RAPID)		

**Solvents Method: Residual Solvents by GC/MS<sup>b</sup> Units µg/g Batch 2402107 Analyze 03/19/24 11:35 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 2402153 Analyze 03/21/24 11:43 AM**

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	0.0165	2402111	03/18/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium*	< LOQ	0.200	mg/kg	0.0165	2402111	03/18/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead*	< LOQ	0.500	mg/kg	0.0165	2402111	03/18/24 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury*	< LOQ	0.100	mg/kg	0.00827	2402111	03/18/24 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	2402164	03/18/24 AOAC 925.10 (mod.)		
Water Activity	0.674		Aw	0.030	2402090	03/18/24 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
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
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-1710355849

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

Company Details					Project Details					Testing							
Company: <u>Northwest Natural Goods</u>					Turnaround Time: <u>5 Business Days</u>   Req. For Micro Testing   <u>Standard</u>					H001G - Cannabis Heavy Metals Pro le CR H0008 - Residual Solvents (Cannabis - Organic) H0010 - Potency/Cannabis (Basic-Expanded) M835 - RAPID Yeast and Mold Count (R/M) Petri Im P2020 - Multi-Residue Pesticide Pro le (Cannabis) M075 - E. coli/Coliform Count (EC) Petri Im N3600 - Water Activity & Moisture (as Loss on Drying)   Food	✓	✓	✓	✓	✓	✓	✓
Compliance: <u>Compliance</u>					Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u>												
Project Name / ID: <u>HEMP - HB 0108</u>					Cannabis Type (select if applicable): <u>Industrial</u>												
Pick-Up Details					Pick-Up Location Name: <u>Northwest Natural Goods</u>												
Receipt Information																	
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size												
1	HEMP - HB 0108	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?
<i>KRISTEN JOHNSON</i>	<i>03/13/2024</i>	<i>11:50</i>		<i>BR</i>	<i>03/14/2024</i>	<i>10:23</i>	<i>25</i>	<i>No</i>
<i>BR</i>	<i>03/14/2024</i>	<i>10:51</i>	<i>18.2</i>	<i>rbt</i>	<i>03/14/2024</i>	<i>11:51</i>	<i>25</i>	<i>No</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories  
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P: (503) 254-1794  
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12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 24-002871/D001.R000  
**Report Date:** 03/22/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/24 11:51

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

Laboratory Quality Control Results  
Batch ID: 2402078

JAOAC2015 V986										
Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBVA	2	0.0321	0.0324	%	99.3	80.0	- 120	Acceptable		
CBV	2	0.0351	0.0352	%	99.9	80.0	- 120	Acceptable		
CBE	2	0.0354	0.0359	%	98.4	80.0	- 120	Acceptable		
CBDA	1	0.0318	0.0319	%	99.8	90.0	- 110	Acceptable		
CBGA	1	0.0315	0.0316	%	99.7	80.0	- 120	Acceptable		
CBG	1	0.0365	0.0366	%	99.8	80.0	- 120	Acceptable		
CB	1	0.0352	0.0355	%	99.2	90.0	- 110	Acceptable		
THCV	2	0.0343	0.0345	%	99.6	80.0	- 120	Acceptable		
δ8THCV	2	0.0301	0.0304	%	98.9	80.0	- 120	Acceptable		
THCVA	2	0.0322	0.0323	%	99.7	80.0	- 120	Acceptable		
CBN	1	0.0334	0.0334	%	100	80.0	- 120	Acceptable		
exo-THC	2	0.0335	0.0338	%	99.0	80.0	- 120	Acceptable		
δ9THC	1	0.0361	0.0355	%	102	90.0	- 110	Acceptable		
δ8THC	1	0.0335	0.0339	%	98.8	90.0	- 110	Acceptable		
9SaTHC	1	0.0333	0.0333	%	100.0	80.0	- 120	Acceptable		
CB	2	0.0348	0.0340	%	102	80.0	- 120	Acceptable		
9RaTHC	1	0.0322	0.0326	%	98.7	80.0	- 120	Acceptable		
CB	2	0.0342	0.0352	%	97.1	80.0	- 120	Acceptable		
THCA	1	0.0322	0.0320	%	101	90.0	- 110	Acceptable		
CBGA	2	0.0342	0.0346	%	98.8	80.0	- 120	Acceptable		
CBLA	2	0.0342	0.0344	%	99.2	80.0	- 120	Acceptable		
δ9THCP	2	0.0331	0.0336	%	98.7	80.0	- 120	Acceptable		
CB	2	0.0340	0.0348	%	98.0	80.0	- 120	Acceptable		

Method Blank										
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes			
CBVA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBV	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBE	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBDA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBGA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBG	<LOQ	0.00318	%	< 0.00318		Acceptable				
CB	<LOQ	0.00318	%	< 0.00318		Acceptable				
THCV	<LOQ	0.00318	%	< 0.00318		Acceptable				
δ8THCV	<LOQ	0.00318	%	< 0.00318		Acceptable				
THCVA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBN	<LOQ	0.00318	%	< 0.00318		Acceptable				
exo-THC	<LOQ	0.00318	%	< 0.00318		Acceptable				
δ9THC	<LOQ	0.00318	%	< 0.00318		Acceptable				
δ8THC	<LOQ	0.00318	%	< 0.00318		Acceptable				
9SaTHC	<LOQ	0.00318	%	< 0.00318		Acceptable				
CB	<LOQ	0.00318	%	< 0.00318		Acceptable				
9RaTHC	<LOQ	0.00318	%	< 0.00318		Acceptable				
CB	<LOQ	0.00318	%	< 0.00318		Acceptable				
THCA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBGA	<LOQ	0.00318	%	< 0.00318		Acceptable				
CBLA	<LOQ	0.00318	%	< 0.00318		Acceptable				
δ9THCP	<LOQ	0.00318	%	< 0.00318		Acceptable				
CB	<LOQ	0.00318	%	< 0.00318		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: 4 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2402078						
Sample Duplicate		Sample ID: 24-0027660001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CE	0.00702	0.00670	0.00321	%	4.78	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBS	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBD	0.630	0.615	0.00321	%	2.46	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBN	0.124	0.121	0.00321	%	2.35	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00321	%	NA	< 20	Acceptable	
CB	0.0102	0.01000	0.00321	%	2.11	< 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: 2402107					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		574	584	µg/g	98.3	60 - 120	
Isobutane	ND	< 200		733	767	µg/g	95.6	60 - 120	
Butane	ND	< 200		727	782	µg/g	93.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		798	939	µg/g	85.0	60 - 120	
Methanol	ND	< 200		1620	1600	µg/g	101.3	60 - 120	
Ethylene Oxide	ND	< 30		55.8	57.1	µg/g	97.7	60 - 120	
2-Methylbutane	ND	< 200		1600	1600	µg/g	100.0	60 - 120	
Pentane	ND	< 200		1570	1600	µg/g	98.1	60 - 120	
Ethanol	ND	< 200		1510	1600	µg/g	94.4	70 - 130	
Ethyl Ether	ND	< 200		1400	1600	µg/g	87.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		141	163	µg/g	86.5	60 - 120	
Acetone	ND	< 200		1460	1610	µg/g	90.7	60 - 120	
2-Propanol	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Ethyl Formate	ND	< 500		1510	1620	µg/g	93.2	70 - 130	
Acetonitrile	ND	< 100		447	481	µg/g	92.9	60 - 120	
Methyl Acetate	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
2,3-Dimethylbutane	ND	< 30		137	161	µg/g	85.1	60 - 120	
Dichloromethane	ND	< 60		349	481	µg/g	72.6	60 - 120	
2-Methylpentane	ND	< 30		132	162	µg/g	81.5	60 - 120	
MTBE	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
3-Methylpentane	ND	< 30		134	163	µg/g	82.2	60 - 120	
Hexane	ND	< 30		144	163	µg/g	88.3	60 - 120	
1-Propanol	ND	< 500		1820	1600	µg/g	113.8	70 - 130	
Methyl ethyl ketone	ND	< 500		1770	1610	µg/g	109.9	70 - 130	
Ethyl acetate	ND	< 200		1560	1610	µg/g	96.9	60 - 120	
2-Butanol	ND	< 200		1570	1600	µg/g	98.1	60 - 120	
Tetrahydrofuran	ND	< 100		408	487	µg/g	83.4	60 - 120	
Cyclohexane	ND	< 200		1200	1610	µg/g	74.5	60 - 120	
2-methyl-1-propanol	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Benzene	ND	< 1		3.53	4.88	µg/g	72.3	60 - 120	
Isopropyl Acetate	ND	< 200		1480	1610	µg/g	91.9	60 - 120	
Heptane	ND	< 200		1480	1600	µg/g	91.3	60 - 120	
1-Butanol	ND	< 500		1580	1610	µg/g	98.1	70 - 130	
Propyl Acetate	ND	< 500		1720	1610	µg/g	106.8	70 - 130	
1,4-Dioxane	ND	< 100		365	484	µg/g	75.4	60 - 120	
2-Ethoxyethanol	ND	< 30		295	162	µg/g	126.5	60 - 120	Q1
Methylisobutylketone	ND	< 500		1750	1630	µg/g	107.4	70 - 130	
3-Methyl-1-butanol	ND	< 500		1580	1610	µg/g	98.9	70 - 130	
Ethylene Glycol	ND	< 200		598	498	µg/g	120.6	60 - 120	Q1
Toluene	ND	< 100		360	486	µg/g	74.1	60 - 120	
Isobutyl Acetate	ND	< 500		1730	1610	µg/g	107.5	70 - 130	
1-Pentanol	ND	< 500		1670	1600	µg/g	104.4	70 - 130	
Butyl Acetate	ND	< 500		1730	1600	µg/g	108.1	70 - 130	
Ethylbenzene	ND	< 200		702	961	µg/g	73.0	60 - 120	
m,p-Xylene	ND	< 200		682	973	µg/g	70.1	60 - 120	
o-Xylene	ND	< 200		683	963	µg/g	69.5	60 - 120	
Cumene	ND	< 30		104	164	µg/g	63.4	60 - 120	
Anisole	ND	< 500		1230	1600	µg/g	76.9	70 - 130	
DMSO	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
1,2-dimethoxyethane	ND	< 50		185	170	µg/g	108.8	70 - 130	
Triethylamine	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
N,N-dimethylformamide	ND	< 150		421	482	µg/g	87.3	70 - 130	
N,N-dimethylacetamide	ND	< 150		469	488	µg/g	96.1	70 - 130	
Pyridine	ND	< 50		153	164	µg/g	93.3	70 - 130	
Sulfolane	ND	< 50		133	169	µg/g	78.7	70 - 130	



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

QC- Sample Duplicate		Sample ID: 24-002791-0001						
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	26800	26300	500 µg/g	1.9	< 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	8100	8180	500 µg/g	1.0	< 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.