



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



**Report Number:** 22-014527/D002.R000  
**Report Date:** 12/06/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 11/29/22 10:39

**Customer:** NW Natural Goods  
**Product identity:** HEMP- EB 0055  
**Client/Metric ID:** .  
**Laboratory ID:** 22-014527-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.204		mg/4g		CBD-Total per Serving Size 25.5 mg/4g  THC-Total per Serving Size <LOQ  (Reported in milligrams per serving)
CBD per 4g	25.4		mg/4g		
CBDV per 4g	0.143		mg/4g		
CBN per 4g	5.12		mg/4g		
CBT per 4g	0.272		mg/4g		

**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- EB 0055

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 22-014527-0001

**Evidence of Cooling:** No

**Temp:** 19.4

**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: 2210228 Analyze: 11/30/22 9:54:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.204		mg/4g	0.129	
CBC-A per 4g	< LOQ		mg/4g	0.129	
CBC-Total per 4g	< LOQ		mg/4g	0.241	
CBD per 4g	25.4		mg/4g	0.129	
CBD-A per 4g	< LOQ		mg/4g	0.129	
CBD-Total per 4g	25.5		mg/4g	0.241	
CBDV per 4g	0.143		mg/4g	0.129	
CBDV-A per 4g	< LOQ		mg/4g	0.129	
CBDV-Total per 4g	< LOQ		mg/4g	0.240	
CBE per 4g	< LOQ		mg/4g	0.129	
CBG per 4g	< LOQ		mg/4g	0.129	
CBG-A per 4g	< LOQ		mg/4g	0.129	
CBG-Total per 4g	< LOQ		mg/4g	0.240	
CBL per 4g	< LOQ		mg/4g	0.129	
CBL-A per 4g	< LOQ		mg/4g	0.129	
CBL-Total per 4g	< LOQ		mg/4g	0.241	
CBN per 4g	5.12		mg/4g	0.129	
CBT per 4g	0.272		mg/4g	0.129	
$\Delta$ 8-THCV per 4g	< LOQ		mg/4g	0.129	
$\Delta$ 10-THC per 4g	< LOQ		mg/4g	0.129	
$\Delta$ 8-THC per 4g	< LOQ		mg/4g	0.129	
$\Delta$ 9-THC per 4g	< LOQ		mg/4g	0.129	
exo-THC per 4g	< LOQ		mg/4g	0.129	
THC-A per 4g	< LOQ		mg/4g	0.129	
THC-Total per 4g	< LOQ		mg/4g	0.241	
THCV per 4g	< LOQ		mg/4g	0.129	
THCV-A per 4g	< LOQ		mg/4g	0.129	
THCV-Total per 4g	< LOQ		mg/4g	0.242	
Total Cannabinoids per 4g	31.3		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2210145	12/02/22 AOAC 991.14 (Petrifilm) <sup>®</sup>		
Total Coliforms	< LOQ		cfu/g	10	2210145	12/02/22 AOAC 991.14 (Petrifilm) <sup>®</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2210146	12/03/22 AOAC 2014.05 (RAPID) <sup>®</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2210146	12/03/22 AOAC 2014.05 (RAPID) <sup>®</sup>		

Solvents Method: Residual Solvents by GC/MS<sup>®</sup> Units µg/g Batch 2210270 Analyze 12/02/22 11:19 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 2210286 Analyze 12/05/22 11:58 AM

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

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0170	2210310	12/01/22 AOAC 2013.06 (mod.) <sup>®</sup>		pass
Cadmium	< LOQ	0.200	mg/kg	0.0170	2210310	12/01/22 AOAC 2013.06 (mod.) <sup>®</sup>		pass
Lead	< LOQ	0.500	mg/kg	0.0170	2210310	12/01/22 AOAC 2013.06 (mod.) <sup>®</sup>		pass
Mercury	< LOQ	0.100	mg/kg	0.00849	2210310	12/01/22 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)	18.8		g/100g	0.10	2210267	12/01/22 AOAC 925.10 (mod.) <sup>p</sup>		
Water Activity	0.696		Aw	0.030	2210165	11/30/22 AOAC 978.18 <sup>p</sup>		

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.



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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.

**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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**Hemp & Cannabis: Usable / Extract / Finished Pro Chain of Custody Record**  
ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

NWNATURALGOODS 22-014527



ID: 2832 Revision: 5  
Effective: 01/04/2022

<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		NW Natural Goods <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/Metric ID
	HEMP - EB 0055	11/28/22	✓	✓	✓	✓	✓	✓	✓	✓	✓			80g	
Signature - Relinquished By:		Date	Time	Signature - Received By:		Date	Time	Lab Use Only:							
Annie Nair		11/28/22	10:13	MRNB		11/29	10:13	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): <u>19.4</u> 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: _____							
MRNB		11/29	10:37	RBS		11/29/22	10:39								

† - 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  
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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
Aldoxy carb	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
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
Etoxazole	0.1
Etrifos	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)
Flonicamid	0.1
Fluazifop	0.1
Fluazinam	0.1
Flucythrinate	0.1
Fludioxonil	0.1
Flufenacet	0.1
Flumioxazin	0.1
Flupicolide	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
Haloxifop	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
Malaixon	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
Methiocab	0.1
Methiocab sulfone	0.1
Methiocab 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
Paraaxon-ethyl	0.1
Paraaxon-methyl	0.1
Parathion-methyl	0.1
Penconazole	0.1
Pendimethalin	0.1
Penflufen	0.1
Penthiopyrad	0.1
Permethrin	0.1
Perthane	0.1
Phenmedipham	0.1

Analyte	LOQ (mg/kg)
Phenothrin	0.1
Phenothate	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
Procyimidone	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
Quintozone(PCNB)	0.2
Quizalofop	0.1
Resmethrin	0.1
Rotenone	0.1
Safufenacil	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





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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
Thiodicarb	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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**Report Number:** 22-014527/D002.R000  
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Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2210228

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0357	0.034	%	105	80.0	- 120	Acceptable	
CBDV	2	0.0369	0.035	%	104	80.0	- 120	Acceptable	
CBE	2	0.0370	0.035	%	105	80.0	- 120	Acceptable	
CBDA	1	0.0323	0.032	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0325	0.032	%	101	80.0	- 120	Acceptable	
CBG	1	0.0321	0.032	%	101	80.0	- 120	Acceptable	
CBD	1	0.0315	0.032	%	99.0	90.0	- 110	Acceptable	
THCV	2	0.0354	0.034	%	104	80.0	- 120	Acceptable	
d8THCV	2	0.0367	0.036	%	101	80.0	- 120	Acceptable	
THCVA	2	0.0348	0.033	%	105	80.0	- 120	Acceptable	
CBN	1	0.0324	0.033	%	98.1	80.0	- 120	Acceptable	
exo-THC	2	0.0328	0.033	%	100	80.0	- 120	Acceptable	
d9THC	1	0.0333	0.034	%	98.0	90.0	- 110	Acceptable	
d8THC	1	0.0315	0.033	%	94.4	90.0	- 110	Acceptable	
CBL	2	0.0316	0.033	%	94.8	80.0	- 120	Acceptable	
d10THC	1	0.0288	0.031	%	93.7	80.0	- 120	Acceptable	
CBG	2	0.0341	0.035	%	97.7	80.0	- 120	Acceptable	
THCA	1	0.0343	0.032	%	107	90.0	- 110	Acceptable	
CBGA	2	0.0352	0.034	%	103	80.0	- 120	Acceptable	
CBLA	2	0.0363	0.035	%	103	80.0	- 120	Acceptable	
CBT	2	0.0325	0.037	%	88.8	80.0	- 120	Acceptable	

Method Blank									
Analyte	Result	LOQ	Units	Limits		Evaluation	Notes		
CBDVA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBDV	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBE	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBDA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBGA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBG	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBD	<LOQ	0.0006	%	< 0.0006		Acceptable			
THCV	<LOQ	0.0006	%	< 0.0006		Acceptable			
d8THCV	<LOQ	0.0006	%	< 0.0006		Acceptable			
THCVA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBN	<LOQ	0.0006	%	< 0.0006		Acceptable			
exo-THC	<LOQ	0.0006	%	< 0.0006		Acceptable			
d9THC	<LOQ	0.0006	%	< 0.0006		Acceptable			
d8THC	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBL	<LOQ	0.0006	%	< 0.0006		Acceptable			
d10THC	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBG	<LOQ	0.0006	%	< 0.0006		Acceptable			
THCA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBGA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBLA	<LOQ	0.0006	%	< 0.0006		Acceptable			
CBT	<LOQ	0.0006	%	< 0.0006		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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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2210228						
Sample Duplicate		Sample ID: 22-0145120001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.253	0.244	0.003	%	3.48	< 20	Acceptable	
CBD	0.00373	0.00385	0.003	%	3.15	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.255	0.246	0.003	%	3.66	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00541	0.00519	0.003	%	4.12	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<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:**



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2210270					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		422	572	µg/g	73.8	60 - 120	
Isobutane	ND	< 200		489	731	µg/g	66.9	60 - 120	
Butane	ND	< 200		504	731	µg/g	68.9	60 - 120	
2,2-Dimethylpropane	ND	< 200		684	938	µg/g	73.1	60 - 120	
Methanol	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
Ethylene Oxide	ND	< 30		41.1	56.2	µg/g	73.1	60 - 120	
2-Methylbutane	ND	< 200		1480	1610	µg/g	91.9	60 - 120	
Pentane	ND	< 200		1470	1600	µg/g	91.9	60 - 120	
Ethanol	ND	< 200		1460	1610	µg/g	90.7	70 - 130	
Ethyl Ether	ND	< 200		1480	1630	µg/g	90.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		161	171	µg/g	94.2	60 - 120	
Acetone	ND	< 200		1480	1630	µg/g	90.8	60 - 120	
2-Propanol	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
Acetonitrile	ND	< 100		452	498	µg/g	90.8	60 - 120	
2,3-Dimethylbutane	ND	< 30		143	171	µg/g	83.6	60 - 120	
Dichloromethane	ND	< 60		451	483	µg/g	93.4	60 - 120	
2-Methylpentane	ND	< 30		152	168	µg/g	90.5	60 - 120	
3-Methylpentane	ND	< 30		138	167	µg/g	82.6	60 - 120	
Hexane	ND	< 30		202	182	µg/g	111.0	60 - 120	
Ethyl acetate	ND	< 200		1440	1610	µg/g	89.4	60 - 120	
2-Butanol	ND	< 200		1390	1600	µg/g	86.9	60 - 120	
Tetrahydrofuran	ND	< 100		413	483	µg/g	85.9	60 - 120	
Cyclohexane	ND	< 200		1460	1610	µg/g	90.7	60 - 120	
Benzene	ND	< 1		5.11	5.02	µg/g	101.8	60 - 120	
Isopropyl Acetate	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
Heptane	ND	< 200		1450	1610	µg/g	90.1	60 - 120	
1,4-Dioxane	ND	< 100		418	491	µg/g	85.1	60 - 120	
2-Ethoxyethanol	ND	< 30		151	181	µg/g	83.4	60 - 120	
Ethylene Glycol	ND	< 200		302	484	µg/g	62.4	60 - 120	
Toluene	ND	< 100		435	485	µg/g	89.7	60 - 120	
Ethylbenzene	ND	< 200		813	969	µg/g	83.9	60 - 120	
m,p-Xylene	ND	< 200		828	994	µg/g	83.1	60 - 120	
o-Xylene	ND	< 200		797	967	µg/g	82.4	60 - 120	
Cumene	ND	< 30		136	171	µg/g	79.5	60 - 120	



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Legacy ID: CFL-E33Effective:

QC- Sample Duplicate

Sample ID: 22-014532-0001

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	
Pertane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 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	
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30 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	
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	
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30 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	
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	

**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.