



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



Report Number: 22-011858/D002.R000
Report Date: 10/10/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/03/22 12:05

Customer: NW Natural Goods
Product identity: Hemp - EB 0051
Client/Metric ID: .
Laboratory ID: 22-011858-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.218		mg/4g		CBD-Total per Serving Size 23.4 mg/4g
CBD per 4g	23.4		mg/4g		
CBG per 4g	0.664		mg/4g		THC-Total per Serving Size <LOQ
CBN per 4g	4.88		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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Customer: NW Natural Goods

Product identity: Hemp - EB 0051

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-011858-0001

Evidence of Cooling: No

Temp: 19.8 °C

Relinquished by: ramos

Serving Size #1: 4 g

Sample Results

Potency per 4g		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2208416	Analyze: 10/4/22 8:56:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 4g	0.218		mg/4g	0.128		
CBC-A per 4g	< LOQ		mg/4g	0.128		
CBC-Total per 4g	< LOQ		mg/4g	0.241		
CBD per 4g	23.4		mg/4g	0.128		
CBD-A per 4g	< LOQ		mg/4g	0.128		
CBD-Total per 4g	23.4		mg/4g	0.241		
CBDV per 4g	< LOQ		mg/4g	0.128		
CBDV-A per 4g	< LOQ		mg/4g	0.128		
CBDV-Total per 4g	< LOQ		mg/4g	0.239		
CBE per 4g	< LOQ		mg/4g	0.128		
CBG per 4g	0.664		mg/4g	0.128		
CBG-A per 4g	< LOQ		mg/4g	0.128		
CBG-Total per 4g	0.664		mg/4g	0.239		
CBL per 4g	< LOQ		mg/4g	0.128		
CBL-A per 4g	< LOQ		mg/4g	0.128		
CBL-Total per 4g	< LOQ		mg/4g	0.241		
CBN per 4g	4.88		mg/4g	0.128		
CBT per 4g	< LOQ		mg/4g	0.128		
Δ8-THCV per 4g	< LOQ		mg/4g	0.128		
Δ10-THC per 4g	< LOQ		mg/4g	0.128		
Δ8-THC per 4g	< LOQ		mg/4g	0.128		
Δ9-THC per 4g	< LOQ		mg/4g	0.128		
exo-THC per 4g	< LOQ		mg/4g	0.128		
THC-A per 4g	< LOQ		mg/4g	0.128		
THC-Total per 4g	< LOQ		mg/4g	0.241		
THCV per 4g	< LOQ		mg/4g	0.128		
THCV-A per 4g	< LOQ		mg/4g	0.128		
THCV-Total per 4g	< LOQ		mg/4g	0.241		
Total Cannabinoids per 4g	29.3		mg/4g			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2208349	10/05/22 AOAC 991.14 (Petrifilm) [®]		
Total Coliforms	< LOQ		cfu/g	10	2208349	10/05/22 AOAC 991.14 (Petrifilm) [®]		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208350	10/07/22 AOAC 2014.05 (RAPID) [®]		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208350	10/07/22 AOAC 2014.05 (RAPID) [®]		

Solvents Method: Residual Solvents by GC/MS[®] Units µg/g Batch 2208462 Analyze 10/06/22 12:06 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 2208513 Analyze 10/07/22 12:30 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	0.0156	2208488	10/06/22 AOAC 2013.06 (mod.) [®]	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0156	2208488	10/06/22 AOAC 2013.06 (mod.) [®]	pass	
Lead	< LOQ	0.500	mg/kg	0.0156	2208488	10/06/22 AOAC 2013.06 (mod.) [®]	pass	
Mercury	< LOQ	0.100	mg/kg	0.00782	2208488	10/06/22 AOAC 2013.06 (mod.) [®]	pass	



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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.0		g/100g	0.10	2208528	10/06/22 AOAC 925.10 (mod.) ^p		
Water Activity	0.690		Aw	0.030	2208362	10/05/22 AOAC 978.18 ^p		



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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.

^p = 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
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
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
Pyroxulam	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 22-011858



Revision: 5
01/04/2022

Company: Northwest Natural Goods Contact: Annie Nair Address: 11791 SE HWY 212 City: Clackamas State: OR Zip Code: 97015 <input checked="" type="checkbox"/> Email Results: annienair@nwnaturalgoods.com <input type="checkbox"/> Ph: () - Name: _____ Email: _____ Address: _____ City: _____ State: _____ Zip: _____ Ph: () -			Analysis Requested 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 Batch ID: Sampled by: Custom Reporting: Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <small>*Check for availability</small>		
Lab ID	Client Sample Identification	Sample date											Material Type †	Weight (Units)	Comments/Metric ID
	HEMP - EB 0051	10/03/22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		80g	
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:					
Annie Nair			10.3	1045	[Signature]			10.3	1045	<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): <u>19.3</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: _____					
[Signature]			10.3	1135	RBS			10/03	12:05						

† - 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
 info@columbiaboratories.com
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 www.columbiaboratories.com



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2208416

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDA	2	0.0347	0.034	%	101	80.0	- 120	Acceptable	
CBDV	2	0.0367	0.037	%	101	80.0	- 120	Acceptable	
CBE	2	0.0351	0.035	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0309	0.033	%	92.2	90.0	- 110	Acceptable	
CBSA	1	0.0311	0.034	%	92.8	80.0	- 120	Acceptable	
CBS	1	0.0319	0.034	%	92.9	80.0	- 120	Acceptable	
CB	1	0.0311	0.034	%	90.8	90.0	- 110	Acceptable	
THCV	2	0.0372	0.038	%	99.1	80.0	- 120	Acceptable	
deltaTHCV	2	0.0364	0.037	%	99.1	80.0	- 120	Acceptable	
THCVA	2	0.0338	0.034	%	101	80.0	- 120	Acceptable	
CBN	1	0.0310	0.034	%	92.1	90.0	- 110	Acceptable	
exo-THC	2	0.0332	0.034	%	97.1	80.0	- 120	Acceptable	
deltaTHC	1	0.0313	0.035	%	90.7	90.0	- 110	Acceptable	
deltaTHC	1	0.0322	0.033	%	96.3	90.0	- 110	Acceptable	
CB	2	0.0314	0.033	%	95.7	80.0	- 120	Acceptable	
deltaTHC	1	0.0282	0.032	%	88.3	80.0	- 120	Acceptable	
CB	2	0.0352	0.036	%	97.6	80.0	- 120	Acceptable	
THCA	1	0.0326	0.033	%	98.3	90.0	- 110	Acceptable	
CBCA	2	0.0356	0.035	%	101	80.0	- 120	Acceptable	
CBLA	2	0.0182	0.019	%	97.7	80.0	- 120	Acceptable	
CB	2	0.0327	0.037	%	87.9	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<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	
CBSA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBS	<LOQ	0.0006	%	< 0.0006	Acceptable	
CB	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
deltaTHCV	<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	
deltaTHC	<LOQ	0.0006	%	< 0.0006	Acceptable	
deltaTHC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CB	<LOQ	0.0006	%	< 0.0006	Acceptable	
deltaTHC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CB	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBLA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CB	<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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Report Number: 22-011858/D002.R000
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ORELAP#: OR100028
Purchase Order:
Received: 10/03/22 12:05

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2208416						
Sample Duplicate		Sample ID: 22-0118290001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00625	0.00626	0.003	%	0.0695	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
δ8THCV	<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	
δ9THC	0.254	0.255	0.003	%	0.312	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
Δ10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CB	0.00493	0.00492	0.003	%	0.177	< 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	
CB	<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: 2208462					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		535	572	µg/g	93.5	60 - 120	
Isobutane	ND	< 200		648	731	µg/g	88.6	60 - 120	
Butane	ND	< 200		641	731	µg/g	87.7	60 - 120	
2,2-Dimethylpropane	ND	< 200		931	938	µg/g	99.5	60 - 120	
Methanol	ND	< 200		1730	1650	µg/g	104.8	60 - 120	
Ethylene Oxide	ND	< 30		56.8	56.2	µg/g	101.1	60 - 120	
2-Methylbutane	ND	< 200		1650	1650	µg/g	100.0	60 - 120	
Pentane	ND	< 200		1670	1650	µg/g	101.2	60 - 120	
Ethanol	ND	< 200		1670	1660	µg/g	100.6	70 - 130	
Ethyl Ether	ND	< 200		1630	1630	µg/g	100.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		187	189	µg/g	98.9	60 - 120	
Acetone	ND	< 200		1690	1650	µg/g	102.4	60 - 120	
2-Propanol	ND	< 200		1700	1650	µg/g	103.0	60 - 120	
Acetonitrile	ND	< 100		510	504	µg/g	101.2	60 - 120	
2,3-Dimethylbutane	ND	< 30		168	174	µg/g	96.6	60 - 120	
Dichloromethane	ND	< 60		508	521	µg/g	97.5	60 - 120	
2-Methylpentane	ND	< 30		177	187	µg/g	94.7	60 - 120	
3-Methylpentane	ND	< 30		185	188	µg/g	98.4	60 - 120	
Hexane	ND	< 30		183	182	µg/g	100.5	60 - 120	
Ethyl acetate	ND	< 200		1640	1630	µg/g	100.6	60 - 120	
2-Butanol	ND	< 200		1610	1630	µg/g	98.8	60 - 120	
Tetrahydrofuran	ND	< 100		491	506	µg/g	97.0	60 - 120	
Cyclohexane	ND	< 200		1570	1640	µg/g	95.7	60 - 120	
Benzene	ND	< 1		4.5	4.93	µg/g	91.3	60 - 120	
Isopropyl Acetate	ND	< 200		1610	1640	µg/g	98.2	60 - 120	
Heptane	ND	< 200		1580	1630	µg/g	96.9	60 - 120	
1,4-Dioxane	ND	< 100		460	493	µg/g	93.3	60 - 120	
2-Ethoxyethanol	ND	< 30		168	171	µg/g	97.1	60 - 120	
Ethylene Glycol	ND	< 200		411	494	µg/g	83.2	60 - 120	
Toluene	ND	< 100		439	508	µg/g	86.8	60 - 120	
Ethylbenzene	ND	< 200		832	998	µg/g	83.5	60 - 120	
m,p-Xylene	ND	< 200		838	1010	µg/g	83.0	60 - 120	
o-Xylene	ND	< 200		794	979	µg/g	81.1	60 - 120	
Cumene	ND	< 30		151	188	µg/g	80.3	60 - 120	
1,2-Dichloroethane	ND	< 1		0.333	1	µg/g	33.3	70 - 130	
Chloroform	ND	< 1		0.324	1	µg/g	32.4	70 - 130	
Trichloroethylene	ND	< 1		0.863	1	µg/g	86.3	70 - 130	
1,1,1-Trichloroethane	ND	< 1		0.94	1	µg/g	94.0	70 - 130	



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

QC - Sample Duplicate Sample ID: 22-011896-0002

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	283	297	200 µg/g	4.8	< 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	
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g - Microgram per gram or ppm



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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.