



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



Report Number: 23-002302/D002.R000
Report Date: 03/07/2023
ORELAP#: OR100028
Purchase Order:
Received: 02/27/23 12:43

Customer: NW Natural Goods
Product identity: Bev- GF 023053-1
Client/Metric ID: .
Laboratory ID: 23-002302-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	20.0		mg/355ml		CBD-Total per Serving Size 20.0 mg/355ml
CBG per 355ml	9.92		mg/355ml		
					THC-Total per Serving Size <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: NW Natural Goods
Product identity: Bev- GF 023053-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-002302-0001
Evidence of Cooling: No
Temp: 15.3
Relinquished by: hinton
Serving Size #1: 362.1 g
Density: 1.020 g/ml

Sample Results

Potency per 355ml		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2301841	Analyze: 2/28/23 6:17:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 355ml	< LOQ		mg/355ml	0.358		
CBC-A per 355ml	< LOQ		mg/355ml	0.358		
CBC-Total per 355ml	< LOQ		mg/355ml	0.672		
CBD per 355ml	20.0		mg/355ml	0.358		
CBD-A per 355ml	< LOQ		mg/355ml	0.358		
CBD-Total per 355ml	20.0		mg/355ml	0.672		
CBDV per 355ml	< LOQ		mg/355ml	0.358		
CBDV-A per 355ml	< LOQ		mg/355ml	0.358		
CBDV-Total per 355ml	< LOQ		mg/355ml	0.668		
CBE per 355ml	< LOQ		mg/355ml	0.358		
CBG per 355ml	9.92		mg/355ml	0.358		
CBG-A per 355ml	< LOQ		mg/355ml	0.358		
CBG-Total per 355ml	9.92		mg/355ml	0.668		
CBL per 355ml	< LOQ		mg/355ml	0.358		
CBL-A per 355ml	< LOQ		mg/355ml	0.358		
CBL-Total per 355ml	< LOQ		mg/355ml	0.672		
CBN per 355ml	< LOQ		mg/355ml	0.358		
CBT per 355ml	< LOQ		mg/355ml	0.358		
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.358		
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.358		
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.358		
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.716		
Δ8-THC per 355ml	< LOQ		mg/355ml	0.358		
Δ9-THC per 355ml	< LOQ		mg/355ml	0.358		
exo-THC per 355ml	< LOQ		mg/355ml	0.358		
THC-A per 355ml	< LOQ		mg/355ml	0.358		
THC-Total per 355ml	< LOQ		mg/355ml	0.672		
THCV per 355ml	< LOQ		mg/355ml	0.358		
THCV-A per 355ml	< LOQ		mg/355ml	0.358		
THCV-Total per 355ml	< LOQ		mg/355ml	0.672		
Total Cannabinoids per 355ml	29.9		mg/355ml			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2301773	03/02/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2301773	03/02/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2301774	03/03/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2301774	03/03/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^P Units µg/g Batch 2301985 Analyze 03/06/23 12:51 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)^P Units mg/kg Batch 2301905 Analyze 03/03/23 10:32 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	0.00384	2301995	03/06/23 AOAC 2013.06 (mod.) ^P	pass	
Cadmium*	< LOQ	0.200	mg/kg	0.00384	2301995	03/06/23 AOAC 2013.06 (mod.) ^P	pass	
Lead*	< LOQ	0.500	mg/kg	0.00384	2301995	03/06/23 AOAC 2013.06 (mod.) ^P	pass	
Mercury*	< LOQ	0.100	mg/kg	0.00192	2301995	03/06/23 AOAC 2013.06 (mod.) ^P	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2*	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin B1*	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G1*	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G2*	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Ochratoxin A*	< LOQ	20.0	µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	
Total Aflatoxins*	0.000	20.0	µg/kg	20.0		03/07/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	99.6		g/100g	0.10	2302007	03/06/23 AOAC 925.10 (mod.) ^P		
Water Activity	0.988		Aw	0.030	2301816	02/28/23 AOAC 978.18 ^P		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

g/ml = Gram per milliliter

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

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

mg/355ml = Milligram per 355ml

% = Percentage of sample

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
Etoxazole	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
Malaoxon	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 23-002302

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



NW Natural Goods

Company: Northwest Natural Goods
Contact: Annie Nair
Address: 11791 SE HWY 212
City: Clackamas **State:** OR **Zip Code:** 97015
 Email Results: annienair@nwnaturalgoods.com
 Ph: () -
Billing Contact (if different)
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
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sampled by:
Custom Reporting:
Source Material: - Ind. Hemp product | - Rec. Cannabis
Reporting Type: - Compliance | - R&D
Report to: - METRC | - ODA | - USDA | - Other:
Turnaround time (TAT - Business Days):
 - 5BD | - 3BD* | - 2BD*
 *Check for availability

Lab ID	Client Sample Identification	Sample date								Material Type †	Weight (Units)	Comments/Metric ID
	Bev - GF 023053-1	02/22/23									362.1g	

Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:		
Annie Nair			02/23/23		MRIA			2/27	10:15	<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>15.3</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: _____		
MRIA			2/27	10:49	RBS			02/27/23	1243			

† - 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
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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.
 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Report Number: 23-002302/D002.R000
Report Date: 03/07/2023
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Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2301841

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDA	2	0.0010	0.001	%	96.3	80.0 - 120	Acceptable		
CBDV	2	0.0011	0.001	%	100	80.0 - 120	Acceptable		
CBE	2	0.0010	0.001	%	99.5	80.0 - 120	Acceptable		
CBDA	1	0.0009	0.001	%	98.2	90.0 - 110	Acceptable		
CBSA	1	0.0009	0.001	%	98.6	80.0 - 120	Acceptable		
CBS	1	0.0010	0.001	%	102	80.0 - 120	Acceptable		
CB	1	0.0010	0.001	%	98.1	90.0 - 110	Acceptable		
THCV	2	0.0010	0.001	%	101	80.0 - 120	Acceptable		
δ8THCV	2	0.0011	0.001	%	98.2	80.0 - 120	Acceptable		
THCVA	2	0.0010	0.001	%	96.8	80.0 - 120	Acceptable		
CBN	1	0.0010	0.001	%	102	80.0 - 120	Acceptable		
exo-THC	2	0.0010	0.001	%	97.3	80.0 - 120	Acceptable		
δ9THC	1	0.0010	0.001	%	105	90.0 - 110	Acceptable		
δ8THC	1	0.0011	0.001	%	104	90.0 - 110	Acceptable		
9Sδ10THC	1	0.0010	0.001	%	102	80.0 - 120	Acceptable		
CB	2	0.0010	0.001	%	99.6	80.0 - 120	Acceptable		
9Rδ10THC	1	0.0010	0.001	%	101	80.0 - 120	Acceptable		
CB	2	0.0011	0.001	%	99.8	80.0 - 120	Acceptable		
THCA	1	0.0009	0.001	%	91.3	90.0 - 110	Acceptable		
CBSA	2	0.0010	0.001	%	93.3	80.0 - 120	Acceptable		
CBLA	2	0.0010	0.001	%	95.1	80.0 - 120	Acceptable		
CB	2	0.0010	0.001	%	95.2	80.0 - 120	Acceptable		

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBSA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBS	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable	
exo-THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ9THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
δ8THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
9Sδ10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
9Rδ10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBSA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CB	<LOQ	0.0001	%	< 0.0001	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2301841						
Sample Duplicate		Sample ID: 23-001893000201						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBS	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.000538	0.000523	0.0001	%	2.85	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d9THC	0.000272	0.000259	0.0001	%	4.95	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2301985					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		384	572	µg/g	67.1	60 - 120	
Isobutane	ND	< 200		494	731	µg/g	67.6	60 - 120	
Butane	ND	< 200		492	731	µg/g	67.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		611	938	µg/g	65.3	60 - 120	
Methanol	ND	< 200		1850	1610	µg/g	114.9	60 - 120	
Ethylene Oxide	ND	< 30		38.2	56.2	µg/g	68.0	60 - 120	
2-Methylbutane	ND	< 200		2060	1600	µg/g	128.8	60 - 120	Q1
Pentane	ND	< 200		2050	1610	µg/g	127.3	60 - 120	Q1
Ethanol	ND	< 200		1870	1600	µg/g	116.9	70 - 130	
Ethyl Ether	ND	< 200		1950	1610	µg/g	121.1	60 - 120	Q1
2,2-Dimethylbutane	ND	< 30		210	173	µg/g	121.4	60 - 120	Q1
Acetone	ND	< 200		1920	1620	µg/g	118.5	60 - 120	
2-Propanol	ND	< 200		1890	1600	µg/g	118.1	60 - 120	
Acetonitrile	ND	< 100		576	488	µg/g	118.0	60 - 120	
2,3-Dimethylbutane	ND	< 30		198	165	µg/g	120.0	60 - 120	
Dichloromethane	ND	< 60		528	487	µg/g	108.4	60 - 120	
2-Methylpentane	ND	< 30		195	160	µg/g	121.9	60 - 120	Q1
3-Methylpentane	ND	< 30		175	161	µg/g	108.7	60 - 120	
Hexane	ND	< 30		233	162	µg/g	143.8	60 - 120	Q1
Ethyl acetate	ND	< 200		1840	1600	µg/g	115.0	60 - 120	
2-Butanol	ND	< 200		1860	1610	µg/g	115.5	60 - 120	
Tetrahydrofuran	ND	< 100		546	483	µg/g	113.0	60 - 120	
Cyclohexane	ND	< 200		1810	1610	µg/g	112.4	60 - 120	
Benzene	ND	< 1		7.17	4.98	µg/g	144.0	60 - 120	Q1
Isopropyl Acetate	ND	< 200		1800	1610	µg/g	111.8	60 - 120	
Heptane	ND	< 200		1830	1620	µg/g	113.0	60 - 120	
1,4-Dioxane	ND	< 100		525	484	µg/g	106.3	60 - 120	
2-Ethoxyethanol	ND	< 30		190	165	µg/g	115.2	60 - 120	
Ethylene Glycol	ND	< 200		674	486	µg/g	138.7	60 - 120	Q1
Toluene	ND	< 100		503	513	µg/g	99.2	60 - 120	
Ethylbenzene	ND	< 200		983	967	µg/g	101.7	60 - 120	
m,p-Xylene	ND	< 200		987	994	µg/g	99.3	60 - 120	
o-Xylene	ND	< 200		974	982	µg/g	98.2	60 - 120	
Cumene	ND	< 30		168	171	µg/g	98.2	60 - 120	



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QC- Sample Duplicate

Sample ID: 23-002392-0001

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	395	494	200 µg/g	22.3	< 20	FAIL	Q4
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

Units of Measure:

- ND- None Detected at or above MRL
- RPD- Relative Percent Difference
- LOQ- Limit of Quantitation
- Q1- Quality control result biased high. Only non-detect samples reported.
- Q4- Non-homogenous sample matrix, affecting RPD result and/or % recoveries.



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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.