



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



Report Number: 23-001111/D003.R000
Report Date: 02/06/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/26/23 12:36

Customer: NW Natural Goods
Product identity: Bev- RB 023009-17
Client/Metric ID: .
Laboratory ID: 23-001111-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	23.3		mg/355ml		CBD-Total per Serving Size 23.3 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- RB 023009-17
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-001111-0001
Evidence of Cooling: No
Temp: 17.1
Relinquished by: ramos
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: 2300926	Analyze: 1/30/23 7:33:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 355ml	< LOQ		mg/355ml	0.357		
CBC-A per 355ml	< LOQ		mg/355ml	0.357		
CBC-Total per 355ml	< LOQ		mg/355ml	0.671		
CBD per 355ml	23.3		mg/355ml	0.357		
CBD-A per 355ml	< LOQ		mg/355ml	0.357		
CBD-Total per 355ml	23.3		mg/355ml	0.671		
CBDV per 355ml	< LOQ		mg/355ml	0.357		
CBDV-A per 355ml	< LOQ		mg/355ml	0.357		
CBDV-Total per 355ml	< LOQ		mg/355ml	0.667		
CBE per 355ml	< LOQ		mg/355ml	0.357		
CBG per 355ml	< LOQ		mg/355ml	0.357		
CBG-A per 355ml	< LOQ		mg/355ml	0.357		
CBG-Total per 355ml	< LOQ		mg/355ml	0.667		
CBL per 355ml	< LOQ		mg/355ml	0.357		
CBL-A per 355ml	< LOQ		mg/355ml	0.357		
CBL-Total per 355ml	< LOQ		mg/355ml	0.671		
CBN per 355ml	< LOQ		mg/355ml	0.357		
CBT per 355ml	< LOQ		mg/355ml	0.357		
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.357		
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.715		
Δ8-THC per 355ml	< LOQ		mg/355ml	0.357		
Δ9-THC per 355ml	< LOQ		mg/355ml	0.357		
exo-THC per 355ml	< LOQ		mg/355ml	0.357		
THC-A per 355ml	< LOQ		mg/355ml	0.357		
THC-Total per 355ml	< LOQ		mg/355ml	0.671		
THCV per 355ml	< LOQ		mg/355ml	0.357		
THCV-A per 355ml	< LOQ		mg/355ml	0.357		
THCV-Total per 355ml	< LOQ		mg/355ml	0.671		
Total Cannabinoids per 355ml	23.5		mg/355ml			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300829	01/29/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2300829	01/29/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300831	01/30/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300831	01/30/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^P Units µg/g Batch 2301126 Analyze 02/06/23 02:24 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 2300931 Analyze 01/31/23 12:50 PM

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	0.00388	2301007	01/31/23 AOAC 2013.06 (mod.) ^P	pass	
Cadmium	< LOQ	0.200	mg/kg	0.00388	2301007	01/31/23 AOAC 2013.06 (mod.) ^P	pass	
Lead	< LOQ	0.500	mg/kg	0.00388	2301007	01/31/23 AOAC 2013.06 (mod.) ^P	pass	
Mercury	< LOQ	0.100	mg/kg	0.00194	2301007	01/31/23 AOAC 2013.06 (mod.) ^P	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2300907	01/31/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2300907	01/31/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2300907	01/31/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2300907	01/31/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2300907	01/31/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		02/02/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	99.4		g/100g	0.10	2300904	01/30/23 AOAC 925.10 (mod.) ^P		
Water Activity	0.990		Aw	0.030	2300901	01/30/23 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
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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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 23-001111

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	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
	Bev - RB 023009-17	01/09/23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		362.1g	

Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:	
Annie Nair			01/26/23	1030	[Signature]			1.26.23	1030	<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>17.1</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]			1.26.23	1120	NBS			01/26/23	1236		

† - 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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 info@columbialaboratories.com
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Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2300926

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0009	0.001	%	87.7	80.0	- 120	Acceptable	
CBDV	2	0.0010	0.001	%	93.5	80.0	- 120	Acceptable	
CBE	2	0.0010	0.001	%	93.5	80.0	- 120	Acceptable	
CBD	1	0.0009	0.001	%	92.5	90.0	- 110	Acceptable	
CBG ^A	1	0.0009	0.001	%	96.2	80.0	- 120	Acceptable	
CBC	1	0.0010	0.001	%	103	80.0	- 120	Acceptable	
CBD	1	0.0010	0.001	%	99.4	90.0	- 110	Acceptable	
THCV	2	0.0010	0.001	%	92.5	80.0	- 120	Acceptable	
δ8THCV	2	0.0010	0.001	%	96.5	80.0	- 120	Acceptable	
THCVA	2	0.0009	0.001	%	86.5	80.0	- 120	Acceptable	
CBN	1	0.0011	0.001	%	104	80.0	- 120	Acceptable	
exo-THC	2	0.0009	0.001	%	94.1	80.0	- 120	Acceptable	
δ9THC	1	0.0011	0.001	%	104	90.0	- 110	Acceptable	
δ8THC	1	0.0010	0.001	%	98.2	90.0	- 110	Acceptable	
9SΔ10THC	1	0.0005	0.001	%	100	80.0	- 120	Acceptable	
CBL	2	0.0010	0.001	%	95.4	80.0	- 120	Acceptable	
9RΔ10THC	1	0.0005	0.000	%	104	80.0	- 120	Acceptable	
CBC	2	0.0010	0.001	%	92.4	80.0	- 120	Acceptable	
THCA	1	0.0009	0.001	%	90.9	90.0	- 110	Acceptable	
CBCA	2	0.0009	0.001	%	84.0	80.0	- 120	Acceptable	
CBLA	2	0.0009	0.001	%	88.6	80.0	- 110	Acceptable	
CBT	2	0.0010	0.001	%	93.9	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBDV	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBE	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG ^A	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<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	
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable	
9RΔ10THC	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBC	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBCA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBLA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBT	<LOQ	0.0001	%	< 0.0001	Acceptable	

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

Units of Measure:
 %- Percent



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Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2300926						
Sample Duplicate		Sample ID: 22-015393-0003						
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	
CBDAA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDAP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.0069	0.0070	0.0001	%	1.42	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCV/A	<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	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRI
- 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: 2301126					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		360	572	µg/g	62.9	60	- 120
Isobutane	ND	< 200		433	731	µg/g	59.2	60	- 120 Q6
Butane	ND	< 200		434	731	µg/g	59.4	60	- 120 Q6
2,2-Dimethylpropane	ND	< 200		538	938	µg/g	57.5	60	- 120 Q6
Methanol	ND	< 200		1110	1620	µg/g	68.5	60	- 120
Ethylene Oxide	ND	< 30		34.4	56.2	µg/g	61.2	60	- 120
2-Methylbutane	ND	< 200		1070	1610	µg/g	66.5	60	- 120
Pentane	ND	< 200		1080	1600	µg/g	67.5	60	- 120
Ethanol	ND	< 200		1140	1610	µg/g	70.8	70	- 130
Ethyl Ether	ND	< 200		1140	1630	µg/g	69.9	60	- 120
2,2-Dimethylbutane	ND	< 30		120	171	µg/g	70.2	60	- 120
Acetone	ND	< 200		1160	1630	µg/g	71.2	60	- 120
2-Propanol	ND	< 200		1180	1620	µg/g	72.8	60	- 120
Acetonitrile	ND	< 100		336	498	µg/g	67.5	60	- 120
2,3-Dimethylbutane	ND	< 30		122	171	µg/g	71.3	60	- 120
Dichloromethane	ND	< 60		358	483	µg/g	74.1	60	- 120
2-Methylpentane	ND	< 30		112	168	µg/g	66.7	60	- 120
3-Methylpentane	ND	< 30		106	167	µg/g	63.5	60	- 120
Hexane	ND	< 30		153	182	µg/g	84.1	60	- 120
Ethyl acetate	ND	< 200		1140	1610	µg/g	70.8	60	- 120
2-Butanol	ND	< 200		1150	1600	µg/g	71.9	60	- 120
Tetrahydrofuran	ND	< 100		350	483	µg/g	72.5	60	- 120
Cyclohexane	ND	< 200		1180	1610	µg/g	73.3	60	- 120
Benzene	ND	< 1		4.09	5.02	µg/g	81.5	60	- 120
Isopropyl Acetate	ND	< 200		1180	1620	µg/g	72.8	60	- 120
Heptane	ND	< 200		1150	1610	µg/g	71.4	60	- 120
1,4-Dioxane	ND	< 100		369	491	µg/g	75.2	60	- 120
2-Ethoxyethanol	ND	< 30		132	181	µg/g	72.9	60	- 120
Ethylene Glycol	ND	< 200		354	484	µg/g	73.1	60	- 120
Toluene	ND	< 100		364	485	µg/g	75.1	60	- 120
Ethylbenzene	ND	< 200		723	969	µg/g	74.6	60	- 120
m,p-Xylene	ND	< 200		739	994	µg/g	74.3	60	- 120
o-Xylene	ND	< 200		717	967	µg/g	74.1	60	- 120
Cumene	ND	< 30		130	171	µg/g	76.0	60	- 120



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QC - Sample Duplicate Sample ID: 23-001111-0001

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
QG - Quality control outside QC limits. Data acceptable based on remaining QC.

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.