



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



Report Number: 24-008405/D001.R000
Report Date: 08/13/2024
ORELAP#: OR100028
Purchase Order:
Received: 08/02/24 12:23

Customer: NW Natural Goods
Product identity: BEV - BP 024213-1
Client/Metric ID: .
Laboratory ID: 24-008405-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	26.2		mg/355ml		CBD-Total per Serving Size 26.2 mg/355ml
CBG per 355ml	0.634		mg/355ml		
CBN per 355ml	5.72		mg/355ml		Delta-9-THC-Total per <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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Received: 08/02/24 12:23

Customer: NW Natural Goods
Product identity: BEV - BP 024213-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-008405-0001
Evidence of Cooling: No
Temp: 19.1
Relinquished by: Client
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: 2405921	Analyze: 8/5/24 4:43:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 355ml	< LOQ		mg/355ml	0.347	
CBC-A per 355ml	< LOQ		mg/355ml	0.347	
CBC-Total per 355ml	< LOQ		mg/355ml	0.651	
CBD per 355ml	26.2		mg/355ml	0.347	
CBD-A per 355ml ¹	< LOQ		mg/355ml	0.347	
CBD-Total per 355ml ¹	26.2		mg/355ml	0.651	
CBDV per 355ml	< LOQ		mg/355ml	0.347	
CBDV-A per 355ml	< LOQ		mg/355ml	0.347	
CBDV-Total per 355ml	< LOQ		mg/355ml	0.647	
CBE per 355ml	< LOQ		mg/355ml	0.347	
CBG per 355ml	0.634		mg/355ml	0.347	
CBG-A per 355ml	< LOQ		mg/355ml	0.347	
CBG-Total per 355ml	< LOQ		mg/355ml	0.647	
CBL per 355ml	< LOQ		mg/355ml	0.347	
CBL-A per 355ml	< LOQ		mg/355ml	0.347	
CBL-Total per 355ml	< LOQ		mg/355ml	0.651	
CBN per 355ml	5.72		mg/355ml	0.347	
CBT per 355ml	< LOQ		mg/355ml	0.347	
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.347	
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.347	
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.693	
Δ8-THC per 355ml ¹	< LOQ		mg/355ml	0.347	
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.347	
Δ9-THC per 355ml ¹	< LOQ		mg/355ml	0.347	
Δ9-THC-Total per 355ml	< LOQ		mg/355ml	0.651	
Δ9-THCP per 355ml	< LOQ		mg/355ml	0.347	
Δ9-THCV per 355ml	< LOQ		mg/355ml	0.347	
Δ9-THCV-A per 355ml	< LOQ		mg/355ml	0.347	
Δ9-THCV-Total per 355ml	< LOQ		mg/355ml	0.651	
exo-THC per 355ml	< LOQ		mg/355ml	0.347	
THC-A per 355ml ¹	< LOQ		mg/355ml	0.347	



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Potency per 355ml	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2405921	Analyze: 8/5/24	4:43:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 355ml	32.6		mg/355ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2405867	08/05/24 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2405865	08/05/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2405865	08/05/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2405866	08/06/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2405866	08/06/24 AOAC 2014.05 (RAPID)		

Solvents	Method: Residual Solvents by HS-GC-MS ^b	Units µg/g	Batch 2406089	Analyze 08/12/24	02:45 PM						
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane ¹	< LOQ	380	100	pass		2-Butanol ¹	< LOQ	5000	200	pass	
2-Ethoxyethanol ¹	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane) ¹	< LOQ		200		
2-Methylpentane ¹	< LOQ		30.0			2-Propanol (IPA) ¹	< LOQ	5000	200	pass	
2,2-Dimethylbutane ¹	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane) ¹	< LOQ		200		
2,3-Dimethylbutane ¹	< LOQ		30.0			3-Methylpentane ¹	< LOQ		30.0		
Acetone ¹	< LOQ	5000	200	pass		Acetonitrile ¹	< LOQ	410	100	pass	
Benzene ¹	< LOQ	2.00	1.00	pass		Butanes (sum) ¹	< LOQ	5000	400	pass	
Cyclohexane ¹	< LOQ	3880	200	pass		Ethyl acetate ¹	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether ¹	< LOQ	5000	200	pass	
Ethylene glycol ¹	< LOQ	620	200	pass		Ethylene oxide ¹	< LOQ	50.0	20.0	pass	
Hexanes (sum) ¹	< LOQ	290	150	pass		Isopropyl acetate ¹	< LOQ	5000	200	pass	
Isopropylbenzene (Cumene) ¹	< LOQ	70.0	30.0	pass		m,p-Xylene ¹	< LOQ		200		
Methanol ¹	< LOQ	3000	200	pass		Methylene chloride ¹	< LOQ	600	60.0	pass	
Methylpropane (Isobutane) ¹	< LOQ		200			n-Butane ¹	< LOQ		200		
n-Heptane ¹	< LOQ	5000	200	pass		n-Hexane ¹	< LOQ		30.0		
n-Pentane ¹	< LOQ		200			o-Xylene ¹	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran ¹	< LOQ	720	100	pass		Toluene ¹	< LOQ	890	100	pass	
Total Xylenes ¹	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	

Pesticides	Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2406047	Analyze 08/09/24	01:18 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 ^L	< LOQ	0.200	mg/kg	0.00365	2405899	08/05/24 AOAC 2013.06 (mod.) ^P	pass	
Cadmium ^L	< LOQ	0.200	mg/kg	0.00365	2405899	08/05/24 AOAC 2013.06 (mod.) ^P	pass	
Lead ^L	< LOQ	0.500	mg/kg	0.00365	2405899	08/05/24 AOAC 2013.06 (mod.) ^P	pass	
Mercury ^L	< LOQ	0.100	mg/kg	0.00183	2405899	08/05/24 AOAC 2013.06 (mod.) ^P	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 ^L	< LOQ		µg/kg	5.00	2405907	08/06/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin B2 ^L	< LOQ		µg/kg	5.00	2405907	08/06/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G1 ^L	< LOQ		µg/kg	5.00	2405907	08/06/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G2 ^L	< LOQ		µg/kg	5.00	2405907	08/06/24 AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A ^L	< LOQ	20.0	µg/kg	5.00	2405907	08/06/24 AOAC 2007.01 & EN 15662 (mod)	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		08/09/24 AOAC 2007.01 & EN 15662 (mod) ^P	pass	



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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 = Gram

g/ml = Gram per milliliter

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

% 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
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
Diffubenzuron	0.1
Diffufenzopyr	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
Etoazole	0.1
Etrinfos	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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Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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
Fluopicolide	0.1
Fluopyram	0.1
Fluxastrobin	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
Haloxypop	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
Isofenphos	0.1
Isofenphos-methyl	0.1
Isofenphos-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
MCCP	0.1
Mecabam	0.1
Mepanipirim	0.1
Mesotrione	0.1
Metalaxyl	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
Molinate	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
Paclbutrazol	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
Saflufenacil	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
Sulfoxafflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbuthylazine	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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Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Hemp & Cannabis
 Chain of Custody

NW-Natural-Goods-
 1722549349

Company Details Company: <u>NW Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]		Project Details Turnaround Time: <u>5 Business Days Req. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u> Pick-Up Details Pick-Up Location Name: <u>NW Natural Goods</u> [Redacted] [Redacted] [Redacted]			Testing P2320 - Multi-Residue Pesticide Pro Ie (Cannabis) H0042 - A. atoxins+Ochratoxin CLCC H0010 - Potency Cannabis (Basic+Expanded) H0013 - Cannabis Heavy Metals Pro Ie CR H0008 - Residual Solvents (Cannabis - Oregon) M010 - Micro Pro Ie D						
Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>											
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size						
1	BEV- BP 024213-1	Cannabinoid Beverage	4 each	mg/g & mg/serving	362.1g	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
JDE MANGAN	08/01/2024	14:55	19.1	BR	08/02/2024	10:29	25	No
BR	08/02/2024	11:05	19.1	jacob	08/02/2024	12:23	25	No

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

Columbia Laboratories
 12423 NE Whitaker Way
 Portland, OR 97230

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Page 1 of 1
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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 24-008405/D001.R000
Report Date: 08/13/2024
ORELAP#: OR100028
Purchase Order:
Received: 08/02/24 12:23

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2405921

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0010	0.0010	%	102	80.0	- 120	Acceptable		
CBDV	2	0.00105	0.00102	%	103	80.0	- 120	Acceptable		
CBE	2	0.00103	0.00102	%	102	80.0	- 120	Acceptable		
CBDA	1	0.0009	0.0009	%	103	90.0	- 110	Acceptable		
CBGA	1	0.0009	0.0009	%	103	80.0	- 120	Acceptable		
CBG	1	0.00111	0.00108	%	103	80.0	- 120	Acceptable		
CBD	1	0.00106	0.00105	%	102	90.0	- 110	Acceptable		
THCV	2	0.0009	0.0009	%	104	80.0	- 120	Acceptable		
d8THCV	2	0.0010	0.0009	%	101	80.0	- 120	Acceptable		
THCVA	2	0.0010	0.0009	%	102	80.0	- 120	Acceptable		
CBN	1	0.00103	0.0010	%	104	80.0	- 120	Acceptable		
exo-THC	2	0.0010	0.0009	%	102	80.0	- 120	Acceptable		
d9THC	1	0.00109	0.00102	%	107	90.0	- 110	Acceptable		
d8THC	1	0.0009	0.0009	%	102	90.0	- 110	Acceptable		
9S-d10THC	1	0.0010	0.0009	%	103	80.0	- 120	Acceptable		
CBL	2	0.00103	0.0010	%	106	80.0	- 120	Acceptable		
9R-d10THC	1	0.0010	0.0009	%	102	80.0	- 120	Acceptable		
CBC	2	0.00103	0.00102	%	101	80.0	- 120	Acceptable		
THCA	1	0.0009	0.0009	%	99.7	90.0	- 110	Acceptable		
CBCA	2	0.0010	0.0010	%	101	80.0	- 120	Acceptable		
CBLA	2	0.00102	0.00100	%	101	80.0	- 120	Acceptable		
d9THCP	2	0.00100	0.0010	%	102	80.0	- 120	Acceptable		
CBT	2	0.0010	0.00101	%	97.9	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		
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBD	<LOQ	0.0001	%	< 0.0001	Acceptable		
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable		
d8THCV	<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		
d9THC	<LOQ	0.0001	%	< 0.0001	Acceptable		
d8THC	<LOQ	0.0001	%	< 0.0001	Acceptable		
9S-d10THC	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBL	<LOQ	0.0001	%	< 0.0001	Acceptable		
9R-d10THC	<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		
d9THCP	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBT	<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



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



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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2405921						
Sample Duplicate		Sample ID: 24-0084090001						
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	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.0003	0.0003	0.0001	%	2.20	< 20	Acceptable	
CBD	0.00853	0.00835	0.0001	%	2.20	< 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	<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	0.0003	0.0003	0.0001	%	2.40	< 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	
d9THCP	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBT	<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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Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2406089					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		561	585	µg/g	95.9	60 - 120	
Isobutane	ND	< 200		719	770	µg/g	93.4	60 - 120	
Butane	ND	< 200		741	769	µg/g	96.4	60 - 120	
2,2-Dimethylpropane	ND	< 200		965	956	µg/g	100.9	60 - 120	
Methanol	ND	< 200		1790	1600	µg/g	111.9	60 - 120	
Ethylene Oxide	ND	< 30		56.8	57.7	µg/g	98.4	60 - 120	
2-Methylbutane	ND	< 200		2050	1620	µg/g	126.5	60 - 120	Q6
Pentane	ND	< 200		1980	1610	µg/g	123.0	60 - 120	Q6
Ethanol	ND	< 200		1940	1600	µg/g	121.3	70 - 130	
Ethyl Ether	ND	< 200		1920	1610	µg/g	119.3	60 - 120	
2,2-Dimethylbutane	ND	< 30		245	190	µg/g	128.9	60 - 120	Q6
Acetone	ND	< 200		1880	1610	µg/g	116.8	60 - 120	
2-Propanol	ND	< 200		1880	1610	µg/g	116.8	60 - 120	
Ethyl Formate	ND	< 500		4960	1610	µg/g	308.1	70 - 130	Q6
Acetonitrile	ND	< 100		595	486	µg/g	122.4	60 - 120	Q6
Methyl Acetate	ND	< 500		1990	1610	µg/g	123.6	70 - 130	
2,3-Dimethylbutane	ND	< 30		184	163	µg/g	112.9	60 - 120	
Dichloromethane	ND	< 60		534	482	µg/g	110.8	60 - 120	
2-Methylpentane	ND	< 30		234	178	µg/g	131.5	60 - 120	Q6
MTBE	ND	< 500		1970	1600	µg/g	123.1	70 - 130	
3-Methylpentane	ND	< 30		605	490	µg/g	123.5	60 - 120	Q6
Hexane	ND	< 30		211	175	µg/g	120.6	60 - 120	Q6
1-Propanol	ND	< 500		2100	1610	µg/g	130.4	70 - 130	Q6
Methylethylketone	ND	< 500		2060	1600	µg/g	128.8	70 - 130	
Ethyl acetate	ND	< 200		1860	1600	µg/g	116.3	60 - 120	
2-Butanol	ND	< 200		1870	1610	µg/g	116.1	60 - 120	
Tetrahydrofuran	ND	< 100		592	504	µg/g	117.5	60 - 120	
Cyclohexane	ND	< 200		1820	1620	µg/g	112.3	60 - 120	
2-methyl-1-propanol	ND	< 500		2110	1600	µg/g	131.9	70 - 130	Q6
Benzene	ND	< 1		5.38	5.08	µg/g	105.9	60 - 120	
Isopropyl Acetate	ND	< 200		1770	1610	µg/g	109.9	60 - 120	
Heptane	ND	< 200		1770	1610	µg/g	109.9	60 - 120	
1-Butanol	ND	< 500		2270	1600	µg/g	141.9	70 - 130	Q6
Propyl Acetate	ND	< 500		1900	1600	µg/g	118.8	70 - 130	
1,4-Dioxane	ND	< 100		539	488	µg/g	110.5	60 - 120	
2-Ethoxyethanol	ND	< 30		177	163	µg/g	108.6	60 - 120	
Methylisobutylketone	ND	< 500		1900	1610	µg/g	118.0	70 - 130	
3-Methyl-1-butanol	ND	< 500		2140	1600	µg/g	133.8	70 - 130	Q6
Ethylene Glycol	ND	< 200		498	488	µg/g	102.0	60 - 120	
Toluene	ND	< 100		534	492	µg/g	108.5	60 - 120	
Isobutyl Acetate	ND	< 500		1990	1600	µg/g	124.4	70 - 130	
1-Pentanol	ND	< 500		2840	1600	µg/g	177.5	70 - 130	Q6
Butyl Acetate	ND	< 500		2040	1600	µg/g	127.5	70 - 130	
Ethylbenzene	ND	< 200		1070	969	µg/g	110.4	60 - 120	
m,p-Xylene	ND	< 200		1100	981	µg/g	112.1	60 - 120	
o-Xylene	ND	< 200		1020	966	µg/g	105.6	60 - 120	
Cumene	ND	< 30		165	167	µg/g	98.8	60 - 120	
Anisole	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
DMSO	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
1,2-dimethoxyethane	ND	< 50		199	161	µg/g	123.6	70 - 130	
Triethylamine	ND	< 500		1830	1600	µg/g	114.4	70 - 130	
N,N-dimethylformamide	ND	< 150		878	484	µg/g	181.4	70 - 130	Q6
N,N-dimethylacetamide	ND	< 150		536	497	µg/g	107.8	70 - 130	
Pyridine	ND	< 50		195	162	µg/g	120.4	70 - 130	
Sulfolane	ND	< 50		149	166	µg/g	89.8	70 - 130	
1,2-Dichloroethane	ND	< 1		1.06	1	µg/g	106.0	70 - 130	
Chloroform	ND	< 1		1.07	1	µg/g	107.0	70 - 130	
Trichloroethylene	ND	< 1		1	1	µg/g	100.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.13	1	µg/g	113.0	70 - 130	



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

QC - Sample Duplicate

Sample ID: 24-008405-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	776	766	200	µg/g	1.3	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	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-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
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.