



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



Report Number: 23-014351/D002.R000
Report Date: 12/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 12/07/23 13:22

Customer: NW Natural Goods
Product identity: BEV - LM 023340-1
Client/Metric ID: .
Laboratory ID: 23-014351-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	25.0		mg/355ml		CBD-Total per Serving Size 25.0 mg/355ml
CBE per 355ml	0.616		mg/355ml		
CBG per 355ml	0.540		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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Received: 12/07/23 13:22

Customer: NW Natural Goods
Product identity: BEV - LM 023340-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-014351-0001
Evidence of Cooling: No
Temp: 19.3 °C
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: 2313455	Analyze: 12/8/23 5:53:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 355ml	< LOQ		mg/355ml	0.359		
CBC-A per 355ml	< LOQ		mg/355ml	0.359		
CBC-Total per 355ml	< LOQ		mg/355ml	0.675		
CBD per 355ml	25.0		mg/355ml	0.359		
CBD-A per 355ml	< LOQ		mg/355ml	0.359		
CBD-Total per 355ml	25.0		mg/355ml	0.675		
CBDV per 355ml	< LOQ		mg/355ml	0.359		
CBDV-A per 355ml	< LOQ		mg/355ml	0.359		
CBDV-Total per 355ml	< LOQ		mg/355ml	0.671		
CBE per 355ml	0.616		mg/355ml	0.359		
CBG per 355ml	0.540		mg/355ml	0.359		
CBG-A per 355ml	< LOQ		mg/355ml	0.359		
CBG-Total per 355ml	< LOQ		mg/355ml	0.671		
CBL per 355ml	< LOQ		mg/355ml	0.359		
CBL-A per 355ml	< LOQ		mg/355ml	0.359		
CBL-Total per 355ml	< LOQ		mg/355ml	0.675		
CBN per 355ml	< LOQ		mg/355ml	0.359		
CBT per 355ml	< LOQ		mg/355ml	0.359		
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.359		
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.359		
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.359		
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.719		
Δ8-THC per 355ml	< LOQ		mg/355ml	0.359		
Δ9-THC per 355ml	< LOQ		mg/355ml	0.359		
delta-9-THCP per 355ml	< LOQ		mg/355ml	0.359		
exo-THC per 355ml	< LOQ		mg/355ml	0.359		
THC-A per 355ml	< LOQ		mg/355ml	0.359		
THC-Total per 355ml	< LOQ		mg/355ml	0.675		
THCV per 355ml	< LOQ		mg/355ml	0.359		
THCV-A per 355ml	< LOQ		mg/355ml	0.359		
THCV-Total per 355ml	< LOQ		mg/355ml	0.675		



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Potency per 355ml **Method:** J AOAC 2015 V98-6 (mod)^p **Units** mg/se **Batch:** 2313455 **Analyze:** 12/8/23 5:53:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 355ml	26.1		mg/355ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2313400	12/10/23 AOAC 990.12 (Petrifilm) ^p		
E.coli	< LOQ		cfu/g	10	2313398	12/10/23 AOAC 991.14 (Petrifilm) ^p		
Total Coliforms	< LOQ		cfu/g	10	2313398	12/10/23 AOAC 991.14 (Petrifilm) ^p		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2313399	12/11/23 AOAC 2014.05 (RAPID) ^p		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2313399	12/11/23 AOAC 2014.05 (RAPID) ^p		

Solvents **Method:** Residual Solvents by GC/MS^p **Units** µg/g **Batch** 2313585 **Analyze** 12/14/23 02:30 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** 2313497 **Analyze** 12/12/23 01:08 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	0.00366	2313490	12/11/23 AOAC 2013.06 (mod.) [‡]	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.00366	2313490	12/11/23 AOAC 2013.06 (mod.) [‡]	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.00366	2313490	12/11/23 AOAC 2013.06 (mod.) [‡]	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00183	2313490	12/11/23 AOAC 2013.06 (mod.) [‡]	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2313465	12/11/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2313465	12/11/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2313465	12/11/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2313465	12/11/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2313465	12/11/23 AOAC 2007.01 & EN 15662 (mod) [‡]	pass	
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		12/14/23 AOAC 2007.01 & EN 15662 (mod) [‡]	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.

^p = 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

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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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	Cethodim	0.050	Endrin	0.100
Acephate	0.100	Cethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Cethodim Sulfoxide	0.050	EPIC	0.100
Acetamiprid	0.020	Cb fenfentzine	0.020	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Cb mazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Cb thianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Cumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crtoxypfos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cyarazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyartofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyatraniiprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazflamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cytoate	0.100	Etoazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Eridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Erimfos	0.020
Atrazine	0.100	Cymoxanil	0.050	Famoxadone	0.200
Atrazine-desethyl	0.100	Cypermethrin	0.200	Famphur	0.100
Azinphos-ethyl	0.020	Cyprodinil	0.100	Fenamidone	0.020
Azinphos-methyl	0.020	Dadhal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Damnozide	0.100	Fenamiphos sulfone	0.020
Beralaxyl	0.020	DCEMU	0.050	Fenamiphos sulfoxide	0.020
Berdicarb	0.020	DDD, op'	0.100	Fenazaquin	0.100
Berfluralin	0.100	DDD, p,p'	0.100	Fenbuconazole	0.100
Berxacor	0.050	DCE, o,p'	0.100	Fenchlorphos	0.100
Bersulide	0.050	DCE, p,p'	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDT, o,p'	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, p,p'	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DEF (Tribufos)	0.100	Fenobucarb	0.050
Bifenazate	0.020	Deltamethrin	0.100	Fenoxycarb	0.020
Bifenthrin	0.020	Desmedipham	0.100	Fenpropathrin	0.050
Boscalid	0.020	Diallate	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diazinon	0.020	Fenson	0.100
Bromophos-methyl	0.200	Diazoxon	0.100	Fensulfthion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfthion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfthion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutrazol	0.050	Fenthion	0.050
Butachlor	0.500	Dicofol	0.100	Fenthion oxon	0.020
Butralin	0.200	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Butylate	0.100	Dieldrin	0.100	Fenthion sulfone	0.050
Cadusafos	0.020	Diethofencarb	0.020	Fenuron	0.020
Captan	1.000	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbaryl	0.050	Difenoconazole	0.100	Fonicamid	0.100
Carbendazim	0.100	Dimethenamid	0.050	Fuchloralin	0.100
Carbofuran	0.020	Dimethoate	0.050	Flucythrinate	0.100
Carbophenothion	0.200	Dimethomorph	0.050	Fludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	Flufenacet	0.020
Carfentrazone-ethyl	0.100	Dinotefuran	0.200	Flumioxazin	0.100
Chlorantraniliprole	0.020	Dioxathion	0.100	Flumeturon	0.020
Chordane, cis-	0.200	Diphenamid	0.020	Fluopicolide	0.050
Chordane, trans-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenson	0.200	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenvinphos	0.050	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chlorobenzilate	0.100	Diuron	0.050	Flusilazole	0.020
Chloroneb	0.200	Edifenphos	0.050	Flutolanil	0.020
Chlorpyrifos	0.050	Endosulfan alpha	0.200	Flutriafol	0.020
Chlorpyrifos-methyl	0.200	Endosulfan beta	0.200	Fluvalinate, tau-	0.100
CIPC	1.000	Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)
Fomesafen	0.100	Mexacarbate	0.020	Propamocarb	0.050
Fonofos	0.100	MGK 264	0.020	Proparil	0.050
Forchlorfenuron	0.050	Mirex	0.100	Propargite	0.050
Formetanate	0.050	Molinate	0.050	Propazine	0.020
Furathiocarb	0.020	Monocrotophos	0.100	Propetamphos	0.050
Heptachlor	0.100	Monolinuron	0.020	Propham	0.050
Heptachlor epoxide	0.100	Myclobutanil	0.050	Propiconazole	0.050
Heptenophos	0.100	Naled	0.100	Propoxur	0.050
Hexachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
Hexaconazole	0.100	Neburon	0.020	Propyzamide	0.050
Hexazinone	0.100	Nitrapyrin	0.100	Prthiofos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazalil	0.100	Omethoate	0.100	Pyrazophos	0.050
Imidacoprid	0.100	O-Phenylphenol	0.100	Pyrethrins	0.050
Indaziflam	0.020	Oxadixyl	0.100	Pyridaben	0.020
Indoxacarb	0.020	Oxamyl	0.100	Pyridafol	0.100
Iprobenfos	0.100	Oxamyl-oxime	0.100	Pyridate	0.020
Iprodione	0.100	Oxychlorane	0.100	Pyrimethanil	0.050
Isobenzan	0.100	Oxydemeton-Methyl	0.100	Pyriproxifen	0.020
Isocarbophos	0.500	Oxythioquinox	0.200	Pyroxasulfone	0.020
Isodrin	0.100	Padlobutrazol	0.050	Pyroxulam	0.020
Isofenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isofenphos-methyl	0.020	Paraoxon methyl	0.100	Quinoxyfen	0.050
Isofenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PQNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Perconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Perdimethalin	0.050	S421	0.100
Isoproturon	0.050	Perflufen	0.020	Smaazine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smectryn	0.200
Isoxaflutole	0.050	Pertachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothiobianisole (PCTA)	0.100	Spirodiclofen	0.100
Lenacl	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Pethane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipharm	0.050	Sulfotep	0.050
Malathion	0.050	Phanthoate	0.050	Sulfoxaflor	0.050
Mandipropamid	0.020	Phorate	0.050	Sulprofos	0.020
Mecarbam	0.020	Phorate Sulfone	0.050	Tebuconazole	0.100
Mepanipyrim	0.050	Phorate Sulfoxide	0.050	Tebufenozide	0.020
Merphos	0.500	Phosalone	0.050	Tebuthiuron	0.020
Metalaxyl	0.050	Phosmet	0.100	Tecnazene	0.100
Metaldehyde	0.050	Phosphamidon	0.050	Tefluthrin	0.100
Metconazole	0.100	Phoxim	0.050	Terbufos	0.020
Methadifos	0.100	Pinoxaden	0.020	Terbufos sulfone	0.050
Methamidophos	0.050	Piperonyl butoxide	0.050	Terbufos sulfoxide	0.050
Methidathion	0.050	Pirimicarb	0.020	Terbutylazine	0.020
Methiocarb	0.050	Pirimiphos-methyl	0.050	Terbutryn	0.020
Methiocarb sulfone	0.100	Pirimiphos-ethyl	0.020	Tetrachlorvinphos	0.050
Methiocarb sulfoxide	0.100	Prallethrin	0.100	Tetraconazole	0.050
Methomyl	0.100	Prochloraz	0.020	Tetradfon	0.200
Methoxychlor	0.100	Procyimdone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Prfenofos	0.100	Tetrasul	0.100
Metobromuron	0.050	Prfluralin	0.100	Thiabendazole	0.100
Metolachlor	0.100	Prmecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Metolcarb	0.050	Prometon	0.100	Thiadoprid	0.050
Metraferone	0.050	Prometryn	0.020	Thiamethoxam	0.100
Metribuzin	0.100	Propachlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophanate-methyl	0.050



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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)
Tolclofos-methyl	0.100	Triazophos	0.020	Trifloxystrobin	0.020
Triforin	0.100	Tolyfluarid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vindozolin	0.100
Triadimefon	0.050	Triflumizole	0.020	Zoxamide	0.020
Triallate	0.100	Trifluralin	0.100		

LOQ= Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrumentation sensitivity for a particular analyte, sample size, moisture content (percent solids) of the sample, effectiveness of the cleanup on the sample extract, and especially the type of sample matrix.



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Hemp & Cannabis
 Chain of Custody

NW-Natural-Goods-
 1701902249

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

Contact Information Company: <u>NW Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted] [Redacted]		Project Details Turnaround Time: <u>5 Business Days Standard Required for Microbial Testing</u> Sample Relinquishment Options: <u>Schedule Pick-Up</u> Compliance: <u>Compliance</u> Pick-Up Details [Redacted] [Redacted] [Redacted] City: <u>Clackamas</u> State: <u>Oregon</u> ZIP Code: <u>97015</u>			Testing H0010 - Potency Combined Basic + Extended Profile ✓ P2230 - Pesticide - Multi-Residue Profile ✓ H0008 - Residual Solvents - OR ✓ H0100 - Micro Profile D ✓ H0018 - Heavy Metals Profile OR (As, Cd, Pb & Hg) ✓ H0042 - Mycotoxins Compliance ✓						
#	Sample Name / Test	Material	Amount Provided	Reporting Unit	Serving Size						
1	BEV- LM023340-1	Beverage	4 units for sale	mg/g & mg/serveing	355ml	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Josh Hood</i>	<i>12/6/2023</i>	<i>14:37</i>		<i>BR</i>	<i>12/7/2023</i>	<i>10:35</i>		<i>No</i>
<i>BR</i>	<i>12/7/2023</i>	<i>11:09</i>	<i>19.3</i>	<i>rlc</i>	<i>12/7/2023</i>	<i>13:22</i>		<i>No</i>

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: 23-014351/D002.R000
Report Date: 12/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 12/07/23 13:22

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2313455

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0010	0.0010	%	101	80.0	- 120	Acceptable	
CBDV	2	0.00104	0.00105	%	99.6	80.0	- 120	Acceptable	
CBE	2	0.00108	0.00107	%	101	80.0	- 120	Acceptable	
CBDA	1	0.00102	0.0009	%	107	90.0	- 110	Acceptable	
CBGA	1	0.00101	0.0009	%	106	80.0	- 120	Acceptable	
CBG	1	0.0010	0.0009	%	103	80.0	- 120	Acceptable	
CBD	1	0.00107	0.0010	%	108	90.0	- 110	Acceptable	
THCV	2	0.00106	0.00102	%	103	80.0	- 120	Acceptable	
d8THCV	2	0.0009	0.0008	%	102	80.0	- 120	Acceptable	
THCVA	2	0.0010	0.0010	%	100	80.0	- 120	Acceptable	
CBN	1	0.00106	0.0010	%	107	80.0	- 120	Acceptable	
exo-THC	2	0.0010	0.0009	%	102	80.0	- 120	Acceptable	
d9THC	1	0.00111	0.00101	%	109	90.0	- 110	Acceptable	
d8THC	1	0.00103	0.00101	%	102	90.0	- 110	Acceptable	
9S-d10THC	1	0.00101	0.0010	%	103	80.0	- 120	Acceptable	
CBL	2	0.00102	0.0010	%	105	80.0	- 120	Acceptable	
9R-d10THC	1	0.00101	0.0010	%	106	80.0	- 120	Acceptable	
CBC	2	0.00106	0.00106	%	99.5	80.0	- 120	Acceptable	
THCA	1	0.00100	0.0010	%	104	90.0	- 110	Acceptable	
CBCA	2	0.0010	0.00103	%	96.8	80.0	- 120	Acceptable	
CBLA	2	0.00103	0.00102	%	100	80.0	- 120	Acceptable	
d9THCP	2	0.0010	0.0010	%	98.0	80.0	- 120	Acceptable	
CBT	2	0.00106	0.00105	%	101	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



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2313455						
Sample Duplicate		Sample ID: 23-010936-0013						
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	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.00379	0.00374	0.0001	%	1.24	< 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	<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	
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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 503-254-1794



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

Laboratory Quality Control Results

Residual Solvents				Batch ID:					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		443	584	µg/g	75.9	60 - 120	
Isobutane	ND	< 200		588	767	µg/g	76.7	60 - 120	
Butane	ND	< 200		579	782	µg/g	74.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		677	939	µg/g	72.1	60 - 120	
Methanol	ND	< 200		1600	1600	µg/g	100.0	60 - 120	
Ethylene Oxide	ND	< 30		41.8	57.1	µg/g	73.2	60 - 120	
2-Methylbutane	ND	< 200		1560	1600	µg/g	97.5	60 - 120	
Pentane	ND	< 200		1580	1600	µg/g	98.8	60 - 120	
Ethanol	ND	< 200		1520	1600	µg/g	95.0	70 - 130	
Ethyl Ether	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		156	161	µg/g	96.9	60 - 120	
Acetone	ND	< 200		1570	1600	µg/g	98.1	60 - 120	
2-Propanol	ND	< 200		1590	1600	µg/g	99.4	60 - 120	
Ethyl Formate	ND	< 500		1220	1600	µg/g	76.3	70 - 130	
Acetonitrile	ND	< 100		470	488	µg/g	96.3	60 - 120	
Methyl Acetate	ND	< 500		1380	1610	µg/g	85.7	70 - 130	
2,3-Dimethylbutane	ND	< 30		155	163	µg/g	95.1	60 - 120	
Dichloromethane	ND	< 60		463	488	µg/g	94.9	60 - 120	
2-Methylpentane	ND	< 30		146	161	µg/g	90.7	60 - 120	
MTBE	ND	< 500		1630	1650	µg/g	98.8	70 - 130	
3-Methylpentane	ND	< 30		152	162	µg/g	93.8	60 - 120	
Hexane	ND	< 30		151	161	µg/g	93.8	60 - 120	
1-Propanol	ND	< 500		1500	1620	µg/g	92.6	70 - 130	
Methylethylketone	ND	< 500		1460	1610	µg/g	90.7	70 - 130	
Ethyl acetate	ND	< 200		1570	1610	µg/g	97.5	60 - 120	
2-Butanol	ND	< 200		1590	1610	µg/g	98.8	60 - 120	
Tetrahydrofuran	ND	< 100		468	483	µg/g	96.9	60 - 120	
Cyclohexane	ND	< 200		1530	1600	µg/g	95.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
Benzene	ND	< 1		2.98	4.99	µg/g	59.7	60 - 120	Q6
Isopropyl Acetate	ND	< 200		1570	1600	µg/g	98.1	60 - 120	
Heptane	ND	< 200		1540	1600	µg/g	96.3	60 - 120	
1-Butanol	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
Propyl Acetate	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
1,4-Dioxane	ND	< 100		453	480	µg/g	94.4	60 - 120	
2-Ethoxyethanol	ND	< 30		139	161	µg/g	86.3	60 - 120	
Methylisobutylketone	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
3-Methyl-1-butanol	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
Ethylene Glycol	ND	< 200		373	481	µg/g	77.5	60 - 120	
Toluene	ND	< 100		452	483	µg/g	93.6	60 - 120	
Isobutyl Acetate	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
1-Pentanol	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
Butyl Acetate	ND	< 500		1470	1600	µg/g	91.9	70 - 130	
Ethylbenzene	ND	< 200		936	962	µg/g	97.3	60 - 120	
m,p-Xylene	ND	< 200		918	972	µg/g	94.4	60 - 120	
o-Xylene	ND	< 200		920	965	µg/g	95.3	60 - 120	
Cumene	ND	< 30		165	169	µg/g	97.6	60 - 120	
Anisole	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
DMSO	ND	< 500		1280	1600	µg/g	80.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		157	163	µg/g	96.3	70 - 130	
Triethylamine	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
N,N-dimethylformamide	ND	< 150		445	482	µg/g	92.3	70 - 130	
N,N-dimethylacetamide	ND	< 150		440	483	µg/g	91.1	70 - 130	
Pyridine	ND	< 50		152	161	µg/g	94.4	70 - 130	
Sulfolane	ND	< 50		128	163	µg/g	78.5	70 - 130	
1,2-Dichloroethane	ND	< 1		0.836	1	µg/g	83.6	70 - 130	
Chloroform	ND	< 1		0.868	1	µg/g	86.8	70 - 130	
Trichloroethylene	ND	< 1		0.904	1	µg/g	90.4	70 - 130	
1,1-Dichloroethane	ND	< 1		0.878	1	µg/g	87.8	70 - 130	



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 503-254-1794



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QC - Sample Duplicate Sample ID: 23-014041-0001

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	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	
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	
Methyl ethyl ketone	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.