



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



Report Number: 23-010705/D002.R000
Report Date: 09/15/2023
ORELAP#: OR100028
Purchase Order:
Received: 09/08/23 12:30

Customer: NW Natural Goods
Product identity: BO 023250-1
Client/Metric ID: .
Laboratory ID: 23-010705-0001

Summary

Potency:

Analyte per 355ml	Result	Limits	Units	Status	
CBD per 355ml	27.2		mg/355ml		CBD-Total per Serving Size 27.2 mg/355ml
CBG per 355ml	0.742		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: 09/08/23 12:30

Customer: NW Natural Goods

Product identity: BO 023250-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-010705-0001
Evidence of Cooling: No
Temp: 18.3 °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: 2310817		Analyze: 9/11/23 5:56:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 355ml	< LOQ		mg/355ml	0.354		
CBC-A per 355ml	< LOQ		mg/355ml	0.354		
CBC-Total per 355ml	< LOQ		mg/355ml	0.665		
CBD per 355ml	27.2		mg/355ml	0.354		
CBD-A per 355ml	< LOQ		mg/355ml	0.354		
CBD-Total per 355ml	27.2		mg/355ml	0.665		
CBDV per 355ml	< LOQ		mg/355ml	0.354		
CBDV-A per 355ml	< LOQ		mg/355ml	0.354		
CBDV-Total per 355ml	< LOQ		mg/355ml	0.661		
CBE per 355ml	< LOQ		mg/355ml	0.354		
CBG per 355ml	0.742		mg/355ml	0.354		
CBG-A per 355ml	< LOQ		mg/355ml	0.354		
CBG-Total per 355ml	0.742		mg/355ml	0.661		
CBL per 355ml	< LOQ		mg/355ml	0.354		
CBL-A per 355ml	< LOQ		mg/355ml	0.354		
CBL-Total per 355ml	< LOQ		mg/355ml	0.665		
CBN per 355ml	< LOQ		mg/355ml	0.354		
CBT per 355ml	< LOQ		mg/355ml	0.354		
Δ8-THCV per 355ml	< LOQ		mg/355ml	0.354		
Δ10-THC-9R per 355ml	< LOQ		mg/355ml	0.354		
Δ10-THC-9S per 355ml	< LOQ		mg/355ml	0.354		
Δ10-THC-Total per 355ml	< LOQ		mg/355ml	0.709		
Δ8-THC per 355ml	< LOQ		mg/355ml	0.354		
Δ9-THC per 355ml	< LOQ		mg/355ml	0.354		
delta-9-THCP per 355ml	< LOQ		mg/355ml	0.354		
exo-THC per 355ml	< LOQ		mg/355ml	0.354		
THC-A per 355ml	< LOQ		mg/355ml	0.354		
THC-Total per 355ml	< LOQ		mg/355ml	0.665		
THCV per 355ml	< LOQ		mg/355ml	0.354		
THCV-A per 355ml	< LOQ		mg/355ml	0.354		
THCV-Total per 355ml	< LOQ		mg/355ml	0.665		



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Potency per 355ml Method: J AOAC 2015 V98-6 (mod)^P Units mg/se Batch: 2310817 Analyze: 9/11/23 5:56:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 355ml	28.6		mg/355ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2310746	09/11/23 AOAC 990.12 (Petrifilm) ^P		
E.coli	< LOQ		cfu/g	10	2310744	09/11/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2310744	09/11/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310745	09/11/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310745	09/11/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^P Units µg/g Batch 2310820 Analyze 09/12/23 01:46 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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	
Isopropyl benzene (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 2310903 Analyze 09/14/23 01:35 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	0.00380	2310921	09/14/23 AOAC 2013.06 (mod.) ^Þ	pass	
Cadmium [¥]	< LOQ	0.200	mg/kg	0.00380	2310921	09/14/23 AOAC 2013.06 (mod.) ^Þ	pass	
Lead [¥]	< LOQ	0.500	mg/kg	0.00380	2310921	09/14/23 AOAC 2013.06 (mod.) ^Þ	pass	
Mercury [¥]	< LOQ	0.100	mg/kg	0.00190	2310921	09/14/23 AOAC 2013.06 (mod.) ^Þ	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [¥]	< LOQ		µg/kg	5.00	2310845	09/13/23 AOAC 2007.01 & EN 15662 (mod) ^Þ		
Aflatoxin B1 [¥]	< LOQ		µg/kg	5.00	2310845	09/13/23 AOAC 2007.01 & EN 15662 (mod) ^Þ		
Aflatoxin G1 [¥]	< LOQ		µg/kg	5.00	2310845	09/13/23 AOAC 2007.01 & EN 15662 (mod) ^Þ		
Aflatoxin G2 [¥]	< LOQ		µg/kg	5.00	2310845	09/13/23 AOAC 2007.01 & EN 15662 (mod) ^Þ		
Ochratoxin A [¥]	< LOQ	20.0	µg/kg	5.00	2310845	09/13/23 AOAC 2007.01 & EN 15662 (mod) ^Þ	pass	
Total Aflatoxins [¥]	0.000	20.0	µg/kg	20.0		09/15/23 AOAC 2007.01 & EN 15662 (mod) ^Þ	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	Clethodim	0.050	Endrin	0.100
Acephate	0.100	Clethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfoxide	0.050	EPIC	0.100
Acetamiprid	0.020	Cb fenfentazine	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	Ca maphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Cr toxypfos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cy arazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cy arafenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cy atr anilprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cy azflamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cy doate	0.100	Etoxazole	0.020
Aspon	0.100	Cy fluthrin	0.200	Eridiazole	0.100
Asulam	0.100	Cy falthothrin, lambda	0.200	Erimfos	0.020
Atrazine	0.100	Cy moxanil	0.050	Famoxadone	0.200
Atrazine-desethyl	0.100	Cy permethrin	0.200	Famphur	0.100
Azinphos-ethyl	0.020	Cy prodinil	0.100	Fenamidon	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	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Berdiocarb	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	Fenhexam d	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	Fensulfiothion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfiothion oxon	0.020
Bromuconazole	0.100	D chlorfluaniid	0.100	Fensulfiothion sulfone	0.100
Bupirimate	0.020	D chlorvos	0.100	Fensulfiothion-oxon-sulfone	0.020
Buprofezin	0.050	D clobutrazol	0.050	Fenthion	0.050
Butachlor	0.500	D cofol	0.100	Fenthion oxon	0.020
Butralin	0.200	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Butylate	0.100	D eldrin	0.100	Fenthion sulfone	0.050
Cadusafos	0.020	D ethofencarb	0.020	Fenuron	0.020
Captaf	1.000	D ethyltoluam de (DEET)	0.050	Fipronil	0.100
Carbaryl	0.050	D ifenoconazole	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	D methomorph	0.050	Fludioxonil	0.200
Carboxin	0.020	D niconazole	0.200	Rufenaet	0.020
Carfentrazone-ethyl	0.100	D notefuran	0.200	Flumioxazin	0.100
Chlorantranilprole	0.020	D oxathion	0.100	Flumeturon	0.020
Chordane, os-	0.200	D phenamid	0.020	Fluopicolide	0.050
Chordane, trans-	0.200	D phenylamine	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	D uron	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	Pyaclostrobin	0.020
Imazalil	0.100	Omethoate	0.100	Pyazophos	0.050
Imidacloprid	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	Paclbutrazol	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	Smazine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smectryl	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
Malaoxon	0.050	Phenmedipharm	0.050	Sulfotep	0.050
Malathion	0.050	Phenthoate	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
Methacifos	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
Metrifenone	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	Triconazole	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-
 1694110518

ORELAP ID: CR100028 ANAB ISO 17025 ID: AT1608

Contact Information Company <u>NW Natural Goods</u> [Redacted] [Redacted] [Redacted] [Redacted]		Project Information Project Name <u>N/A</u> PONumber <u>N/A</u> Turnaround Time <u>5 Business Days (Req. For Micro Testing) Standard</u> Samples Delivered to Laboratory <u>Schedule Pick-Up</u> Pick-Up Location [Redacted] [Redacted]			Testing					
					H0010 - Potency Cannabinoid Basic + Extended Profile	P2020 - Pesticide - Multi-Residue Profile	H0006 - Residual Solvents - OR	M010 - Micro Profile D	H0015 - Heavy Metals Profile OR (As, Cd, Pb & Hg)	H0042 - Mycotoxins Compliance
#	Sample Name Test	Material	Amount Provided	Reporting Unit	Serving Size					
1	B0023250-1	Beverage	4 units for sale	mg/g & mg/serving	356 ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Joe Mayas</i>	9/7/2023	11:15		<i>BR</i>	9/8/2023	10:17		<i>No</i>
<i>BR</i>	9/8/2023	10:46	18.3	<i>MRH</i>	9/8/2023	12:30		<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 Re inquired by you are agreeing to these terms.

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ORELAP#: OR100028
Purchase Order:
Received: 09/08/23 12:30

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

Laboratory Quality Control Results

JAOAC2015 V98-6									
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.00101	0.0009	%	109	80.0	- 120	Acceptable	
CBDV	2	0.00106	0.0009	%	112	80.0	- 120	Acceptable	
CBE	2	0.00111	0.0010	%	112	80.0	- 120	Acceptable	
CEDA	1	0.00118	0.00109	%	109	90.0	- 110	Acceptable	
CBG ^A	1	0.00122	0.00110	%	110	80.0	- 120	Acceptable	
CBG	1	0.00125	0.00118	%	107	80.0	- 120	Acceptable	
CBD	1	0.00123	0.00114	%	108	90.0	- 110	Acceptable	
THCV	2	0.0007	0.0006	%	109	80.0	- 120	Acceptable	
Δ8THCV	2	0.0009	0.0008	%	114	80.0	- 120	Acceptable	
THCV/A	2	0.00100	0.0009	%	109	80.0	- 120	Acceptable	
CBN	1	0.00123	0.00111	%	111	80.0	- 120	Acceptable	
exo-THC	2	0.00101	0.0009	%	111	80.0	- 120	Acceptable	
Δ9THC	1	0.00123	0.00115	%	106	90.0	- 110	Acceptable	
Δ8THC	1	0.00130	0.00117	%	110	90.0	- 110	Acceptable	Q1
9SΔ10THC	1	0.00122	0.00115	%	106	80.0	- 120	Acceptable	
CEL	2	0.00105	0.0009	%	112	80.0	- 120	Acceptable	
9RΔ10THC	1	0.0004	0.0004	%	112	80.0	- 120	Acceptable	
CBC	2	0.00110	0.00100	%	110	80.0	- 120	Acceptable	
THCA	1	0.00122	0.00111	%	111	90.0	- 110	Acceptable	Q1
CBCA	2	0.00103	0.0010	%	108	80.0	- 120	Acceptable	
CBLA	2	0.00216	0.00194	%	111	80.0	- 120	Acceptable	
Δ9THCP	2	0.00106	0.0009	%	112	80.0	- 120	Acceptable	
CBT	2	0.00104	0.0009	%	113	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	
CEDA	<LOQ	0.0001	%	< 0.0001	Acceptable	
CBG ^A	<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	
Δ8THCV	<LOQ	0.0001	%	< 0.0001	Acceptable	
THCV/A	<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	
CEL	<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	
Δ9THCP	<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

JAOAC2015 V98-6		Batch ID: 2310817						
Sample Duplicate		Sample ID: 23-010635-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG ^A	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	0.00318	0.00317	0.0001	%	0.368	< 20	Acceptable	
CBD	0.00597	0.00594	0.0001	%	0.462	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
δ8THCV	<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	
δ9THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
δ8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Sδ10THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
9Rδ10THC	<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	
δ9THCP	<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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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310820					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		560	584	µg/g	95.9	60	120
Isobutane	ND	< 200		711	767	µg/g	92.7	60	120
Butane	ND	< 200		732	782	µg/g	93.6	60	120
2,2 Dimethylpropane	ND	< 200		892	939	µg/g	95.0	60	120
Methanol	ND	< 200		1690	1670	µg/g	101.2	60	120
Ethylene Oxide	ND	< 30		57.9	57.1	µg/g	101.4	60	120
2 Methylbutane	ND	< 200		1550	1680	µg/g	92.3	60	120
Pentane	ND	< 200		1540	1670	µg/g	92.2	60	120
Ethanol	ND	< 200		1670	1660	µg/g	100.6	70	130
Ethyl Ether	ND	< 200		1600	1670	µg/g	95.8	60	120
2,2 Dimethylbutane	ND	< 30		176	189	µg/g	93.1	60	120
Acetone	ND	< 200		1630	1670	µg/g	97.6	60	120
2 Propanol	ND	< 200		1620	1630	µg/g	99.4	60	120
Ethyl Formate	ND	< 500		1380	1600	µg/g	86.3	70	130
Acetonitrile	ND	< 100		471	492	µg/g	95.7	60	120
Methyl Acetate	ND	< 500		1570	1600	µg/g	98.1	70	130
2,3 Dimethylbutane	ND	< 30		186	180	µg/g	103.3	60	120
Dichloromethane	ND	< 60		475	488	µg/g	97.3	60	120
2 Methylpentane	ND	< 30		173	182	µg/g	95.1	60	120
M BE	ND	< 500		1560	1610	µg/g	96.9	70	130
3 Methylpentane	ND	< 30		160	177	µg/g	90.4	60	120
Hexane	ND	< 30		169	177	µg/g	95.5	60	120
1 Propanol	ND	< 500		1510	1600	µg/g	94.4	70	130
Methylethylketone	ND	< 500		1550	1610	µg/g	96.3	70	130
Ethyl acetate	ND	< 200		1570	1630	µg/g	96.3	60	120
2 Butanol	ND	< 200		1540	1630	µg/g	94.5	60	120
tetrahydrofuran	ND	< 100		454	488	µg/g	93.0	60	120
Cyclohexane	ND	< 200		1510	1610	µg/g	93.8	60	120
2 methyl 1 propanol	ND	< 500		1480	1610	µg/g	91.9	70	130
Benzene	ND	< 1		4.69	4.79	µg/g	97.9	60	120
Isopropyl Acetate	ND	< 200		1580	1650	µg/g	95.8	60	120
Heptane	ND	< 200		1510	1630	µg/g	92.6	60	120
1 Butanol	ND	< 500		1330	1600	µg/g	83.1	70	130
Propyl Acetate	ND	< 500		1430	1600	µg/g	89.4	70	130
1,4 Dioxane	ND	< 100		460	523	µg/g	88.0	60	120
2 Ethoxyethanol	ND	< 30		166	179	µg/g	92.7	60	120
Methylisobutylketone	ND	< 500		1370	1600	µg/g	85.6	70	130
3 Methyl 1 butanol	ND	< 500		1210	1600	µg/g	75.6	70	130
Ethylene Glycol	ND	< 200		269	506	µg/g	53.2	60	120 Q6
oluene	ND	< 100		446	496	µg/g	89.9	60	120
Isobutyl Acetate	ND	< 500		1440	1610	µg/g	89.4	70	130
1 Pentanol	ND	< 500		1500	1600	µg/g	93.8	70	130
Butyl Acetate	ND	< 500		1340	1610	µg/g	83.2	70	130
Ethylbenzene	ND	< 200		790	978	µg/g	80.8	60	120
m,p Xylene	ND	< 200		808	994	µg/g	81.3	60	120
o Xylene	ND	< 200		770	982	µg/g	78.4	60	120
Cumene	ND	< 30		133	171	µg/g	77.8	60	120
Anisole	ND	< 500		1210	1600	µg/g	75.6	70	130
DMSO	ND	< 500		1170	1620	µg/g	72.2	70	130
1,2 dimethoxyethane	ND	< 50		170	185	µg/g	91.4	70	130
riethylamine	ND	< 500		1380	1600	µg/g	86.3	70	130
N,N dimethylformamide	ND	< 150		410	480	µg/g	85.4	70	130
N,N dimethylacetamide	ND	< 150		343	483	µg/g	71.0	70	130
Pyridine	ND	< 50		133	168	µg/g	79.2	70	130
Sulfolane	ND	< 50		91.9	161	µg/g	57.1	70	130 Q6
1,2 Dichloroethane	ND	< 1		0.985	1	µg/g	98.5	70	130
Chloroform	ND	< 1		0.86	1	µg/g	86.0	70	130
richloroethylene	ND	< 1		0.862	1	µg/g	86.2	70	130
1,1 Dichloroethane	ND	< 1		0.923	1	µg/g	92.3	70	130



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QC - Sample Duplicate Sample ID: 23-010289-0002

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2 Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	
M BE	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	
oluene	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	
richloroethylene	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
- Q6 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.