



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



Report Number: 20-009043/D03.R00
Report Date: 09/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/26/20 12:00

Customer: NW Natural Goods
Product identity: BB 0038
Client/Metric ID: .
Laboratory ID: 20-009043-0001

Sample Date: 08/26/20

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.207		mg/4g		CBD-Total per 4g 24.4 mg/4g
CBD per 4g	24.4		mg/4g		THC-Total per 4g <LOQ
CBN per 4g	0.152		mg/4g		(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: 08/26/20 12:00



Customer: NW Natural Goods

Product identity: BB 0038
Client/Metric ID: .
Sample Date: 08/26/20
Laboratory ID: 20-009043-0001
Relinquished by: Zack H.
Temp: 20.4 °C
Serving Size #1: 4 g

Sample Results

Potency per 4g						Method J AOAC 2015 V98-6 (mod)		Batch: 2007140		Analyze: 8/31/20 12:14:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes						
CBC per 4g	0.207		mg/4g	0.128							
CBC-A per 4g	< LOQ		mg/4g	0.128							
CBC-Total per 4g	< LOQ		mg/4g	0.240							
CBD per 4g	24.4		mg/4g	0.128							
CBD-A per 4g	< LOQ		mg/4g	0.128							
CBD-Total per 4g	24.4		mg/4g	0.240							
CBDV per 4g	< LOQ		mg/4g	0.128							
CBDV-A per 4g	< LOQ		mg/4g	0.128							
CBDV-Total per 4g	< LOQ		mg/4g	0.238							
CBG per 4g	< LOQ		mg/4g	0.128							
CBG-A per 4g	< LOQ		mg/4g	0.128							
CBG-Total per 4g	< LOQ		mg/4g	0.238							
CBL per 4g	< LOQ		mg/4g	0.128							
CBN per 4g	0.152		mg/4g	0.128							
Δ8-THC per 4g	< LOQ		mg/4g	0.128							
Δ9-THC per 4g	< LOQ		mg/4g	0.128							
THC-A per 4g	< LOQ		mg/4g	0.128							
THC-Total per 4g	< LOQ		mg/4g	0.240							
THCV per 4g	< LOQ		mg/4g	0.128							
THCV-A per 4g	< LOQ		mg/4g	0.128							
THCV-Total per 4g	< LOQ		mg/4g	0.240							
Total Cannabinoids 4g[†]	24.8		mg/4g								

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2007029	08/29/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2007029	08/29/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2007030	08/29/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2007030	08/29/20	AOAC 2014.05 (RAPID)	X

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Solvents		Method EPA5021A				Units µg/g	Batch 2007051	Analyze 08/27/20 10:15 AM			
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	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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	30.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass	
Methylpropane	< 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	< LOQ	2170	600	pass	

Pesticides		Method AOAC 2007.01 & EN 15662 (mod)			Units mg/kg	Batch 2007165	Analyze 09/01/20 10:55 AM			
Analyte	Result	Limits	Status	Notes						
Multi-Residue Pesticide Profile ¹	< LOQ for all analytes									

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.00765	2007175	09/01/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.00765	2007175	09/01/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.00765	2007175	09/01/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.00382	2007175	09/01/20	AOAC 2013.06 (mod.)	X	

Nutrition									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Moisture (Loss on Drying)	18.0		g/100g	0.10	2007217	09/02/20	AOAC 925.10 (mod.)	X	
Water Activity	0.723		Aw	0.030	2007206	09/02/20	AOAC 978.18	X	

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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

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	CIPC	1.000	Endrin	0.500
Acephate	0.100	Clethodim	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfone	0.050	EPTC	0.100
Acetamiprid	0.020	Clethodim Sulfoxide	0.050	Esfenvalerate/Fenvalerate	0.200
Acetochlor	0.100	Clofentezine	0.020	Etaconazole	0.500
Acrinathrin	0.100	Clomazone	0.020	Ethalfuralin	0.100
Alachlor	0.100	Clothianidin	0.200	Ethiofencarb	0.050
Aldicarb	0.100	Coumaphos	0.050	Ethion	0.200
Aldicarb sulfoxide	0.100	Crotoxyphos	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyanazine	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyanofenphos	0.020	Ethoprophos	0.020
Ametocrtadin	0.020	Cyantranilprole	0.050	Etofenprox	0.020
Ametryn	0.500	Cyazofamid	0.020	Etoxazole	0.020
Aspon	0.100	Cycloate	0.100	Etridiazole	0.500
Asulam	0.100	Cyfluthrin	0.200	Etrimfos	0.020
Atrazine	0.100	Cyhalothrin, lambda	0.200	Famoxadone	0.200
Atrazine-desethyl	0.100	Cymoxanil	0.050	Famphur	0.100
Azinphos-ethyl	0.020	Cypermethrin	0.200	Fenamidone	0.020
Azinphos-methyl	0.020	Cyprodinil	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Dacthal	0.100	Fenamiphos sulfone	0.020
Benalaxyl	0.020	Daminozide	0.100	Fenamiphos sulfoxide	0.020
Bendiocarb	0.020	DCPMU	0.050	Fenazaquin	0.100
Benfluralin	0.100	DDD, o,p'-	0.100	Fenbuconazole	0.100
Benoxacor	0.050	DDD, p,p'-	0.100	Fenchlorphos	0.100
Bensulide	0.050	DDE, o,p'-	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDE, p,p'-	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, o,p'-	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DDT, p,p'-	0.100	Fenobucarb	0.050
Bifenazate	0.020	DEF (Tribufos)	0.100	Fenoxycarb	0.020
Bifenthrin	0.020	Deltamethrin	0.100	Fenpropathrin	0.050
Boscalid	0.020	Desmedipham	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diallate	0.100	Fenson	0.100
Bromophos-methyl	0.200	Diazinon	0.020	Fensulfthion	0.020
Bromopropylate	0.100	Diazoxon	0.100	Fensulfthion oxon	0.020
Bromuconazole	0.100	Dichlobenil	0.100	Fensulfthion sulfone	0.100
Bupirimate	0.020	Dichlofluanid	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Dichlorvos	0.100	Fenthion	0.050
Butachlor	0.500	Diclobutrazol	0.050	Fenthion oxon	0.020
Butralin	0.200	Dicofol	0.100	Fenthion oxon sulfone	0.100
Butylate	0.100	Dicrotophos	0.050	Fenthion oxon sulfoxide	0.020
Cadusafos	0.020	Dieldrin	0.100	Fenthion sulfone	0.050
Captan	1.000	Diethofencarb	0.020	Fenuron	0.020
Carbaryl	0.050	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbendazim	0.100	Difenoconazole	0.100	Flonicamid	0.100
Carbofuran	0.020	Dimethenamid	0.050	Fluchloralin	0.100
Carbophenothion	0.200	Dimethoate	0.050	Flucythrinate	0.100
Carboxin	0.020	Dimethomorph	0.020	Fludioxonil	0.200
Carfentrazone-ethyl	0.100	Diniconazole	0.200	Flufenacet	0.020
Chlorantranilprole	0.020	Dinotefuran	0.200	Flumioxazin	0.100
Chlordane, cis-	0.200	Dioxathion	0.100	Fluometuron	0.020
Chlordane, trans-	0.200	Diphenamid	0.020	Fluopicolide	0.050
Chlorfenapyr	0.500	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenson	0.200	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenvinphos	0.050	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorobenzilate	0.100	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chloroneb	0.200	Diuron	0.050	Flusilazole	0.020
Chlorpyrifos	0.050	Edifenphos	0.050	Flutolanil	0.020
Chlorpyrifos-methyl	0.200	Endosulfan alpha	0.200	Flutriafol	0.020
		Endosulfan beta	0.200	Fluvalinate, tau-	0.100
		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	Propanil	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	Prothiofos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazalil	0.100	Omethoate	0.100	Pyrazophos	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	Oxychlordan	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	Pacllobutrazol	0.050	Pyroxsulam	0.020
Isufenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isufenphos-methyl	0.020	Paraoxon-methyl	0.100	Quinoxifen	0.050
Isufenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PCNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Penconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Pendimethalin	0.050	S421	0.500
Isoproturon	0.050	Penflufen	0.020	Simazine	0.100
Isoxaben	0.050	Pentachloroaniline	0.100	Simetryn	0.200
Isoxaflutole	0.050	Pentachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclofen	0.100
Lenacil	0.100	Penthiopyrad	0.020	Spiromesifen	0.050
Lindane (gamma BHC)	0.400	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Perthane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipham	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
Methacrifos	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	Terbuthylazine	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	Tetradifon	0.200
Methoxychlor	0.100	Procymidone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Profenofos	0.100	Tetrasul	0.100
Metobromuron	0.050	Profluralin	0.100	Thiabendazole	0.100
Metolachlor	0.100	Promecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Metolcarb	0.050	Prometon	0.100	Thiacloprid	0.050
Metrafenone	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	Tolyfluanid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	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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20-009043 **PIXIS Labs**
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: NW Natural Goods		Analysis Requested										Purchase Order Number:								
Contact: Tyson Humble		Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	OPEN MARKET			Project Number:			
Address: 11791 SE HWY 212, Clackamas, OR 97015														Project Name:			<input type="checkbox"/> Report Instructions: <input checked="" type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30			Project Name:
Email: Tysonh@nwconfections.com																				Other:
Phone: 314-779-6557 Fax:																				
Processor's License: 330-1058115IHH														Matrix	Weight	Serving size for edibles	Comments/Metric ID			
Field ID	Date/Time Collected																			
BB 0038	8/26	X	X	X	X	X	X	X	X	X				edible 40g 4g						

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	Bo Dennis	8/26/20	10:00	<i>[Signature]</i>	8/26	16:00	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	8/26/20	12:00	<i>[Signature]</i>	8/26	12:00	Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: <i>20.4°C</i>
							Shipped Via:
							Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.00 Control#: CF023
Effective 11/8/2018 Revised 11/8/2018

www.pixislabs.com

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[Signature]

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Laboratory Quality Control Results

EPA 5021				Batch ID: 2007051						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		1150	1,190	µg/g	96.6	70 - 130		
Isobutane	ND	< 200		1360	1,520	µg/g	89.5	70 - 130		
Butane	ND	< 200		1340	1,520	µg/g	88.2	70 - 130		
2,2-Dimethylpropane	ND	< 200		1920	1,910	µg/g	100.5	70 - 130		
Methanol	ND	< 200		2990	3,240	µg/g	92.3	70 - 130		
Ethylene Oxide	ND	< 30		109	117	µg/g	93.2	70 - 130		
2-Methylbutane	ND	< 200		2820	3,220	µg/g	87.6	70 - 130		
Pentane	ND	< 200		2790	3,210	µg/g	86.9	70 - 130		
Ethanol	ND	< 200		2730	3,220	µg/g	84.8	70 - 130		
Ethyl Ether	ND	< 200		2670	3,260	µg/g	81.9	70 - 130		
2,2-Dimethylbutane	ND	< 30		325	431	µg/g	75.4	70 - 130		
Acetone	ND	< 200		2900	3,210	µg/g	90.3	70 - 130		
2-Propanol	ND	< 200		2750	3,180	µg/g	86.5	70 - 130		
Acetonitrile	ND	< 100		880	983	µg/g	89.5	70 - 130		
2,3-Dimethylbutane	ND	< 30		278	373	µg/g	74.5	70 - 130		
Dichloromethane	ND	< 200		780	1,010	µg/g	77.2	70 - 130		
2-Methylpentane	ND	< 30		247	330	µg/g	74.8	70 - 130		
3-Methylpentane	ND	< 30		270	342	µg/g	78.9	70 - 130		
Hexane	ND	< 30		253	321	µg/g	78.8	70 - 130		
Ethyl acetate	ND	< 200		2930	3,260	µg/g	89.9	70 - 130		
2-Butanol	ND	< 200		2750	3,210	µg/g	85.7	70 - 130		
Tetrahydrofuran	ND	< 100		772	982	µg/g	78.6	70 - 130		
Cyclohexane	ND	< 200		2500	3,210	µg/g	77.9	70 - 130		
Benzene	ND	< 1		41	55.4	µg/g	74.0	70 - 130		
Isopropyl Acetate	ND	< 200		2840	3,200	µg/g	88.8	70 - 130		
Heptane	ND	< 200		2890	3,210	µg/g	90.0	70 - 130		
1,4-Dioxane	ND	< 100		774	1,010	µg/g	76.6	70 - 130		
2-Ethoxyethanol	ND	< 30		572	681	µg/g	84.0	70 - 130		
Ethylene Glycol	ND	< 200		996	1,170	µg/g	85.1	70 - 130		
Toluene	ND	< 200		759	980	µg/g	77.4	70 - 130		
Ethylbenzene	ND	< 200		1540	1,970	µg/g	78.2	70 - 130		
m,p-Xylene	ND	< 200		1550	1,950	µg/g	79.5	70 - 130		
o-Xylene	ND	< 200		1600	1,940	µg/g	82.5	70 - 130		
Cumene	ND	< 30		265	336	µg/g	78.9	70 - 130		

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



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



Report Number: 20-009043/D03.R00
Report Date: 09/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/26/20 12:00

QC - Sample Duplicate

Sample ID: 20-008939-0003

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	NE	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	200	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	200	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
- * Screening only
- Q1 - Quality Control result biased high. Only non detect samples reported.

Units of Measure:

- µg/g - Microgram per gram or ppm
- mg/Kg - Milligrams per Kilogram
- Aw - Water Activity unit



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Report Number: 20-009043/D03.R00
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Purchase Order:
Received: 08/26/20 12:00

Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2007140

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.0102	0.01	%	102	85.0 - 115	Acceptable	
CBDV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
CBD-A	0.01000	0.01	%	100.0	85.0 - 115	Acceptable	
CBG-A	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBD	0.00984	0.01	%	98.4	85.0 - 115	Acceptable	
THCV	0.0104	0.01	%	104	85.0 - 115	Acceptable	
THCVA	0.00960	0.01	%	96.0	85.0 - 115	Acceptable	
CBN	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
D8THC	0.00978	0.01	%	97.8	85.0 - 115	Acceptable	
CBL	0.00923	0.01	%	92.3	85.0 - 115	Acceptable	
CBC	0.0103	0.01	%	103	85.0 - 115	Acceptable	
THCA	0.00904	0.01	%	90.4	85.0 - 115	Acceptable	
CBCA	0.00912	0.01	%	91.2	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBD-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBG-A	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
THC	<LOQ	0.003	%	< 0.003	Acceptable	
D8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	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
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Report Number: 20-009043/D03.R00
Report Date: 09/02/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/26/20 12:00

Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2007140						
Sample Duplicate		Sample ID: 20-008904-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00476	0.00465	0.003	%	2.34	< 20	Acceptable	
CBD	0.177	0.174	0.003	%	1.54	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THC	0.172	0.169	0.003	%	1.76	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent



12423 NE Whitaker Way
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Report Number: 20-009043/D03.R00
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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.