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

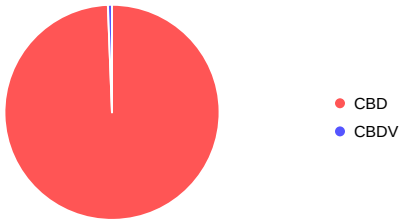
Report Number: 20-011912/D03.R00
Report Date: 11/09/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/02/20 13:37

Customer: Jibe Wellness
Product identity: Blackberry Gummy
Client/Metrc ID: .
Laboratory ID: 20-011912-0001 **Sample Date:** 11/02/20 12:00

Summary

Potency:

Analyte	Result (%)
CBD	1.15
CBDV†	0.00703



CBD-Total	1.15%
THC-Total	<LOQ

(Reported in percent of total sample)

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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Testing in accordance with: OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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Received: 11/02/20 13:37

Customer: Jibe Wellness

Product identity: Blackberry Gummy
Client/Metrc ID: .
Sample Date: 11/02/20 12:00
Laboratory ID: 20-011912-0001
Relinquished by: Client
Temp: 22.4 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Batch:** 2009245 **Analyze:** 11/5/20 10:50:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0033	
CBC-A†	< LOQ		0.0033	
CBC-Total†	< LOQ		0.0061	
CBD	1.15		0.0327	
CBD-A	< LOQ		0.0033	
CBD-Total	1.15		0.0356	
CBDV†	0.00703		0.0033	
CBDV-A†	< LOQ		0.0033	
CBDV-Total†	0.00703		0.0061	
CBG†	< LOQ		0.0033	
CBG-A†	< LOQ		0.0033	
CBG-Total	< LOQ		0.0061	
CBL†	< LOQ		0.0033	
CBN	< LOQ		0.0033	
Δ8-THC†	< LOQ		0.0033	
Δ9-THC	< LOQ		0.0033	
THC-A	< LOQ		0.0033	
THC-Total	< LOQ		0.0061	
THCV†	< LOQ		0.0033	
THCV-A†	< LOQ		0.0033	
THCV-Total†	< LOQ		0.0061	
Total Cannabinoids†	1.16			

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2009137	11/05/20	AOAC 991.14 (Petrifilm)	X, I
Total Coliforms	< LOQ		cfu/g	10	2009137	11/05/20	AOAC 991.14 (Petrifilm)	X, I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2009136	11/05/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2009136	11/05/20	AOAC 2014.05 (RAPID)	X

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Solvents

Method EPA5021A **Units** µg/g **Batch** 2009291 **Analyze** 11/06/20 11:09 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** 2009256 **Analyze** 11/05/20 01:49 PM

Analyte	Result	Limits	Status	Notes
Multi-Residue Pesticide Profile†	< LOQ for all analytes			

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.00632	2009228	11/04/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.00632	2009228	11/04/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.00632	2009228	11/04/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.00316	2009228	11/04/20	AOAC 2013.06 (mod.)	X

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	5.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	200	2009203	11/04/20	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	2009203	11/04/20	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	2009203	11/04/20	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	2009203	11/04/20	AOAC 2007.01 & EN 15662	

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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Moisture (Loss on Drying)	20.2		g/100g	0.10	2009295	11/05/20	AOAC 925.10 (mod.)	X
Water Activity	0.751		Aw	0.030	2009241	11/04/20	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/100g = Grams per 100 Grams
µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
% = Percentage of sample
Aw = Water Activity
% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.
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)
Abamectin	0.100
Acephate	0.100
Acequinocyl	0.100
Acetamiprid	0.020
Acetochlor	0.100
Acrinathrin	0.100
Alachlor	0.100
Aldicarb	0.100
Aldicarb sulfoxide	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100
Aldrin	0.100
Ametocrtradin	0.020
Ametryn	0.500
Aspon	0.100
Asulam	0.100
Atrazine	0.100
Atrazine-desethyl	0.100
Azinphos-ethyl	0.020
Azinphos-methyl	0.020
Azoxystrobin	0.020
Benalaxyl	0.020
Bendiocarb	0.020
Benfluralin	0.100
Benoxacor	0.050
Bensulide	0.050
BHC alpha isomer	0.100
BHC beta isomer	0.100
BHC delta isomer	0.500
Bifenazate	0.020
Bifenthrin	0.020
Boscalid	0.020
Bromophos-ethyl	0.100
Bromophos-methyl	0.200
Bromopropylate	0.100
Bromuconazole	0.100
Bupirimate	0.020
Buprofezin	0.050
Butachlor	0.500
Butralin	0.200
Butylate	0.100
Cadusafos	0.020
Captan	1.000
Carbaryl	0.050
Carbendazim	0.100
Carbofuran	0.020
Carbophenothion	0.200
Carboxin	0.020
Carfentrazone-ethyl	0.100
Chlorantraniliprole	0.020
Chlordane, cis-	0.200
Chlordane, trans-	0.200
Chlorfenapyr	0.500
Chlorfenson	0.200
Chlorfenvinphos	0.050
Chlorobenzilate	0.100
Chloroneb	0.200
Chlorpyrifos	0.050
Chlorpyrifos-methyl	0.200

Compound	LOQ (mg/kg)
CIPC	1.000
Clethodim	0.050
Clethodim Sulfone	0.050
Clethodim Sulfoxide	0.050
Clofentezine	0.020
Clomazone	0.020
Clothianidin	0.200
Coumaphos	0.050
Crotoxyphos	0.020
Cyanazine	0.020
Cyanofenphos	0.020
Cyantraniliprole	0.050
Cyazofamid	0.020
Cycloate	0.100
Cyfluthrin	0.200
Cyhalothrin, lambda	0.200
Cymoxanil	0.050
Cypermethrin	0.200
Cyprodinil	0.100
Dacthal	0.100
Daminozide	0.100
DCPMU	0.050
DDD, o,p'-	0.100
DDD, p,p'-	0.100
DDE, o,p'-	0.100
DDE, p,p'-	0.100
DDT, o,p'-	0.100
DDT, p,p'-	0.100
DEF (Tribufos)	0.100
Deltamethrin	0.100
Desmedipham	0.100
Diallate	0.100
Diazinon	0.020
Diazoxon	0.100
Dichlobenil	0.100
Dichlofluanid	0.100
Dichlorvos	0.100
Diclobutrazol	0.050
Dicofol	0.100
Dicrotophos	0.050
Dieldrin	0.100
Diethofencarb	0.020
Diethyltoluamide (DEET)	0.050
Difenoconazole	0.100
Dimethenamid	0.050
Dimethoate	0.050
Dimethomorph	0.020
Diniconazole	0.200
Dinotefuran	0.200
Dioxathion	0.100
Diphenamid	0.020
Diphenylamine	0.100
Disulfoton	0.100
Disulfoton sulfone	0.100
Disulfoton sulfoxide	0.100
Diuron	0.050
Edifenphos	0.050
Endosulfan alpha	0.200
Endosulfan beta	0.200
Endosulfan sulfate	0.100

Compound	LOQ (mg/kg)
Endrin	0.100
EPN	0.050
EPTC	0.100
Esfenvalerate/Fenvalerate	0.200
Etaconazole	0.100
Ethalfluralin	0.100
Ethiofencarb	0.050
Ethion	0.200
Ethirimol	0.100
Ethofumesate	0.050
Ethoprophos	0.020
Etofenprox	0.020
Etoxazole	0.020
Etridiazole	0.100
Etrimfos	0.020
Famoxadone	0.200
Famphur	0.100
Fenamidone	0.020
Fenamiphos	0.020
Fenamiphos sulfone	0.020
Fenamiphos sulfoxide	0.020
Fenazaquin	0.100
Fenbuconazole	0.100
Fenchlorphos	0.100
Fenchlorphos-oxon	0.100
Fenhexamid	0.100
Fenitrothion	0.100
Fenobucarb	0.050
Fenoxycarb	0.020
Fenpropathrin	0.050
Fenpyroximate	0.020
Fenson	0.100
Fensulfothion	0.020
Fensulfothion oxon	0.020
Fensulfothion sulfone	0.100
Fensulfothion-oxon-sulfone	0.020
Fenthion	0.050
Fenthion oxon	0.020
Fenthion oxon sulfone	0.100
Fenthion oxon sulfoxide	0.020
Fenthion sulfone	0.050
Fenuron	0.020
Fipronil	0.100
Flonicamid	0.100
Fluchloralin	0.100
Flucythrinate	0.100
Fludioxonil	0.200
Flufenacet	0.020
Flumioxazin	0.100
Fluometuron	0.020
Fluopicolide	0.050
Fluopyram	0.020
Fluoxastrobin	0.050
Flupyradifurone	0.020
Fluridone	0.100
Flusilazole	0.020
Flutolanil	0.020
Flutriafol	0.020
Fluvalinate, tau-	0.100
Fluxapyroxad	0.020

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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)
Fomesafen	0.100
Fonofos	0.100
Forchlorfenuron	0.050
Formetanate	0.050
Furathiocarb	0.020
Heptachlor	0.100
Heptachlor epoxide	0.100
Heptenophos	0.100
Hexachlorobenzene	0.100
Hexaconazole	0.100
Hexazinone	0.100
Hexythiazox	0.020
Imazalil	0.100
Imidacloprid	0.100
Indaziflam	0.020
Indoxacarb	0.020
Iprobenfos	0.100
Iprodione	0.100
Isobenzan	0.100
Isocarbophos	0.500
Isodrin	0.100
Isofenphos	0.050
Isofenphos-methyl	0.020
Isofenphos oxon	0.050
Isoprocarb	0.020
Isopropalin	0.200
Isoprothiolane	0.050
Isoproturon	0.050
Isoxaben	0.050
Isoxaflutole	0.050
Kresoxim-methyl	0.050
Lactofen	0.500
Lenacil	0.100
Lindane (gamma BHC)	0.100
Linuron	0.020
Malaoxon	0.050
Malathion	0.050
Mandipropamid	0.020
Mecarbam	0.020
Mepanipyrim	0.050
Merphos	0.500
Metalaxyl	0.050
Metaldehyde	0.050
Metconazole	0.100
Methacrifos	0.100
Methamidophos	0.050
Methidathion	0.050
Methiocarb	0.050
Methiocarb sulfone	0.100
Methiocarb sulfoxide	0.100
Methomyl	0.100
Methoxychlor	0.100
Methoxyfenozide	0.020
Metobromuron	0.050
Metolachlor	0.100
Metolcarb	0.050
Metrafenone	0.050
Metribuzin	0.100
Mevinphos	0.100

Compound	LOQ (mg/kg)
Mexacarbate	0.020
MGK 264	0.020
Mirex	0.100
Molinate	0.050
Monocrotophos	0.100
Monolinuron	0.020
Myclobutanil	0.050
Naled	0.100
Napropamide	0.050
Neburon	0.020
Nitrapyrin	0.100
Norflurazon	0.050
Omethoate	0.100
O-Phenylphenol	0.100
Oxadixyl	0.100
Oxamyl	0.100
Oxamyl-oxime	0.100
Oxychlordane	0.100
Oxydemeton-Methyl	0.100
Oxythioquinox	0.200
Paclobutrazol	0.050
Paraoxon-ethyl	0.020
Paraoxon methyl	0.100
Parathion ethyl	0.100
Parathion methyl	0.200
Penconazole	0.050
Pendimethalin	0.050
Penflufen	0.020
Pentachloroaniline	0.100
Pentachloroanisole	0.100
Pentachlorobenzene (PCB)	0.100
Pentachlorothioanisole (PCTA)	0.100
Penthiopyrad	0.020
Permethrin	0.050
Perthane	0.100
Phenmedipham	0.050
Phenthoate	0.050
Phorate	0.050
Phorate Sulfone	0.050
Phorate Sulfoxide	0.050
Phosalone	0.050
Phosmet	0.100
Phosphamidon	0.050
Phoxim	0.050
Pinoxaden	0.020
Piperonyl butoxide	0.050
Pirimicarb	0.020
Pirimiphos-methyl	0.050
Pirimiphos-ethyl	0.020
Prallethrin	0.100
Prochloraz	0.020
Procymidone	0.100
Profenofos	0.100
Profluralin	0.100
Promecarb	0.050
Prometon	0.100
Prometryn	0.020
Propachlor	0.020

Compound	LOQ (mg/kg)
Propamocarb	0.050
Propanil	0.050
Propargite	0.050
Propazine	0.020
Propetamphos	0.050
Propham	0.050
Propiconazole	0.050
Propoxur	0.050
Propoxycarbazone Na	0.050
Propyzamide	0.050
Prothiofos	0.100
Pyraclostrobin	0.020
Pyrazophos	0.050
Pyrethrins	0.050
Pyridaben	0.020
Pyridafol	0.100
Pyridate	0.020
Pyrimethanil	0.050
Pyriproxifen	0.020
Pyroxasulfone	0.020
Pyroxsulam	0.020
Quinalphos	0.050
Quinoxyfen	0.050
Quintozene (PCNB)	0.200
Resmethrin	0.050
Rotenone	0.050
S421	0.100
Simazine	0.100
Simetryn	0.200
Spinetoram	0.020
Spinosad	0.050
Spirodiclofen	0.100
Spiromesifen	0.050
Spirotetramat	0.050
Spiroxamine	0.020
Sulfotep	0.050
Sulfoxaflor	0.050
Sulprofos	0.020
Tebuconazole	0.100
Tebufenozide	0.020
Tebuthiuron	0.020
Tecnazene	0.100
Tefluthrin	0.100
Terbufos	0.020
Terbufos sulfone	0.050
Terbufos sulfoxide	0.050
Terbuthylazine	0.020
Terbutryn	0.020
Tetrachlorvinphos	0.050
Tetraconazole	0.050
Tetradifon	0.200
Tetramethrin	0.050
Tetrasul	0.100
Thiabendazole	0.100
Thiabendazole, 5-hydroxy	0.100
Thiacloprid	0.050
Thiamethoxam	0.100
Thiobencarb	0.050
Thiodicarb	0.050
Thiophanate-methyl	0.050

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503-254-1794

Report Number: 20-011912/D03.R00
Report Date: 11/09/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/02/20 13:37

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	Tolylfluanid	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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Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
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20-011912

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A Tentamus Company

Hemp / Cannabis Usable / Extract
Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: **OR100028**

Company: JIBE Wellness
Contact: John Sweeney
Street: 8105 Birch Bay Square St, STE 103
City: Blaine State: WA Zip: 98230
☑ Email Results: john@wholesomeholdings.net
Ph: (617) 852-3573 ☐ Fx Results: (___)
Billing (if different):

PO Number:
Project Number:
Project Name:
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☐ Standard ☐ Rush * ☑ Priority Rush *
Check for availability
Sampled by:

Analysis Requested

Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
1	Blackberry Gummy	11/2/20	12:00		✓	✓	✓	✓		✓	✓	✓	✓		E	15 g	

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	02nov20	2:37pm	JB	11/2	13:37

Lab Use Only:
☐ Shipped Via: _____ or ☑ Client drop
Evidence of cooling: ☐ Yes | ☑ No - Temp (°C): 22.4
Sample in good condition: ☑ Yes | ☐ No
☐ Cash | ☐ Check | ☐ CC | ☐ Net:
Prelog storage:

† - Sample Type Codes: Vegitation (V) ; Isolates (S) ; Extract/Concentrate (C)

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

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info@columbialaboratories.com
Page 1 of 1
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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2009221/2009245**

Laboratory Control Sample

Analyte	Result		Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00979		0.01	%	97.9	85.0 - 115	Acceptable	
CBDV	0.00998		0.01	%	99.8	85.0 - 115	Acceptable	
CBD-A	0.0101		0.01	%	101	85.0 - 115	Acceptable	
CBG-A	0.00990		0.01	%	99.0	85.0 - 115	Acceptable	
CBG	0.0100		0.01	%	100	85.0 - 115	Acceptable	
CBD	0.0101		0.01	%	101	85.0 - 115	Acceptable	
THCV	0.0106		0.01	%	106	85.0 - 115	Acceptable	
THCVA	0.00962		0.01	%	96.2	85.0 - 115	Acceptable	
CBN	0.0105		0.01	%	105	85.0 - 115	Acceptable	
THC	0.00996		0.01	%	99.6	85.0 - 115	Acceptable	
D8THC	0.0101		0.01	%	101	85.0 - 115	Acceptable	
CBL	0.00990		0.01	%	99.0	85.0 - 115	Acceptable	
CBC	0.0103		0.01	%	103	85.0 - 115	Acceptable	
THCA	0.0100		0.01	%	100	85.0 - 115	Acceptable	
CBCA	0.00988		0.01	%	98.8	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

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2009221/2009245**

Sample Duplicate Sample ID: **20-011663-0001-01**

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	**0.0103**	**0.0106**	0.003	%	2.72	< 20	Acceptable	
CBD	**0.0862**	**0.0861**	0.003	%	0.0798	< 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	**0.0834**	**0.0831**	0.003	%	0.357	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	**0.0184**	**0.0185**	0.003	%	0.405	< 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

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Laboratory Quality Control Results

Residual Solvents — **Batch ID:** 2009291

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits			Notes
Propane	ND	<	200		667	595	µg/g	112.1	70	-	130	
Isobutane	ND	<	200		901	761	µg/g	118.4	70	-	130	
Butane	ND	<	200		916	761	µg/g	120.4	70	-	130	
2,2-Dimethylpropane	ND	<	200		1100	955	µg/g	115.2	70	-	130	
Methanol	ND	<	200		1980	1610	µg/g	123.0	70	-	130	
Ethylene Oxide	ND	<	30		68.1	58.3	µg/g	116.8	70	-	130	
2-Methylbutane	ND	<	200		1930	1600	µg/g	120.6	70	-	130	
Pentane	ND	<	200		1920	1610	µg/g	119.3	70	-	130	
Ethanol	ND	<	200		1920	1610	µg/g	119.3	70	-	130	
Ethyl Ether	ND	<	200		1890	1610	µg/g	117.4	70	-	130	
2,2-Dimethylbutane	ND	<	30		187	168	µg/g	111.3	70	-	130	
Acetone	ND	<	200		1850	1610	µg/g	114.9	70	-	130	
2-Propanol	ND	<	200		1880	1600	µg/g	117.5	70	-	130	
Ethyl Formate	ND	<	500		1810	1710	µg/g	105.8	70	-	130	
Acetonitrile	ND	<	100		579	486	µg/g	119.1	70	-	130	
Methyl Acetate	ND	<	500		1850	1610	µg/g	114.9	70	-	130	
2,3-Dimethylbutane	ND	<	30		191	162	µg/g	117.9	70	-	130	
Dichloromethane	ND	<	200		576	490	µg/g	117.6	70	-	130	
2-Methylpentane	ND	<	30		191	164	µg/g	116.5	70	-	130	
MTBE	ND	<	500		1790	1620	µg/g	110.5	70	-	130	
3-Methylpentane	ND	<	30		191	166	µg/g	115.1	70	-	130	
Hexane	ND	<	30		193	167	µg/g	115.6	70	-	130	
1-Propanol	ND	<	500		1910	1600	µg/g	119.4	70	-	130	
Methylethylketone	ND	<	500		1850	1610	µg/g	114.9	70	-	130	
Ethyl acetate	ND	<	200		1910	1610	µg/g	118.6	70	-	130	
2-Butanol	ND	<	200		1900	1610	µg/g	118.0	70	-	130	
Tetrahydrofuran	ND	<	100		563	484	µg/g	116.3	70	-	130	
Cyclohexane	ND	<	200		1900	1610	µg/g	118.0	70	-	130	
2-methyl-1-propanol	ND	<	500		1860	1610	µg/g	115.5	70	-	130	
Benzene	ND	<	1		28.1	24.5	µg/g	114.7	70	-	130	
Isopropyl Acetate	ND	<	200		1910	1620	µg/g	117.9	70	-	130	
Heptane	ND	<	200		1990	1610	µg/g	123.6	70	-	130	
1-Butanol	ND	<	500		1870	1600	µg/g	116.9	70	-	130	
Propyl Acetate	ND	<	500		1870	1620	µg/g	115.4	70	-	130	
1,4-Dioxane	ND	<	100		567	484	µg/g	117.1	70	-	130	
2-Ethoxyethanol	ND	<	30		183	186	µg/g	98.4	70	-	130	
Methylisobutylketone	ND	<	500		1920	1610	µg/g	119.3	70	-	130	
3-Methyl-1-butanol	ND	<	500		1910	1610	µg/g	118.6	70	-	130	
Ethylene Glycol	ND	<	200		521	509	µg/g	102.4	70	-	130	
Toluene	ND	<	200		569	492	µg/g	115.7	70	-	130	
Isobutyl Acetate	ND	<	500		1890	1610	µg/g	117.4	70	-	130	
1-Pentanol	ND	<	500		2020	1620	µg/g	124.7	70	-	130	
Butyl Acetate	ND	<	500		1910	1610	µg/g	118.6	70	-	130	
Ethylbenzene	ND	<	200		1120	971	µg/g	115.3	70	-	130	
m,p-Xylene	ND	<	200		1100	975	µg/g	112.8	70	-	130	
o-Xylene	ND	<	200		1110	966	µg/g	114.9	70	-	130	
Cumene	ND	<	30		188	167	µg/g	112.6	70	-	130	
Anisole	ND	<	500		1920	1610	µg/g	119.3	70	-	130	
DMSO	ND	<	500		2070	1650	µg/g	125.5	70	-	130	
1,2-dimethoxyethane	ND	<	50		186	170	µg/g	109.4	70	-	130	
Triethylamine	ND	<	500		1710	1610	µg/g	106.2	70	-	130	
N,N-dimethylformamide	ND	<	150		573	490	µg/g	116.9	70	-	130	
N,N-dimethylacetamide	ND	<	150		599	485	µg/g	123.5	70	-	130	
Pyridine	ND	<	50		188	167	µg/g	112.6	70	-	130	

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QC - Sample Duplicate **Sample ID: 20-011839-0004**

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	200	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	200	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	

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	Quantitaion 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.

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