Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-004485/D02.R00
Report Date: 04/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 04/23/21 09:20

Customer: Jibe Wellness
Product identity: Blackberry Gummy JG0419
Client/Metrc ID: .
Laboratory ID: 21-004485-0001 **Sample Date:** 04/19/21 12:00

Summary

Potency:

Analyte per 3g	Result	Limits	Units	Status
CBD per 3g	26.7		mg/3g	
CBG per 3g†	0.450		mg/3g	

CBD-Total per 3g	26.7 mg/3g
THC-Total per 3g	<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:

Analyte	Result	Units	Analyte	Result	Unit
Lead	0.0153	mg/kg	Mercury	0.00924	mg/kg

Microbiology:

Less than LOQ for all analytes.

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Customer: Jibe Wellness

Product identity: Blackberry Gummy JG0419
Client/Metrc ID: .
Sample Date: 04/19/21 12:00
Laboratory ID: 21-004485-0001
Temp: 17.9 °C
Serving Size #1: 3 g

Sample Results

Potency per 3g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2103813 **Analyze:** 4/28/21 1:41:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 3g†	< LOQ		mg/3g	0.0979	
CBC-A per 3g†	< LOQ		mg/3g	0.0979	
CBC-Total per 3g†	< LOQ		mg/3g	0.184	
CBD per 3g	26.7		mg/3g	0.0979	
CBD-A per 3g	< LOQ		mg/3g	0.0979	
CBD-Total per 3g	26.7		mg/3g	0.184	
CBDV per 3g†	< LOQ		mg/3g	0.0979	
CBDV-A per 3g†	< LOQ		mg/3g	0.0979	
CBDV-Total per 3g†	< LOQ		mg/3g	0.183	
CBG per 3g†	0.450		mg/3g	0.0979	
CBG-A per 3g†	< LOQ		mg/3g	0.0979	
CBG-Total per 3g†	0.450		mg/3g	0.183	
CBL per 3g†	< LOQ		mg/3g	0.0979	
CBN per 3g	< LOQ		mg/3g	0.0979	
Δ8-THC per 3g†	< LOQ		mg/3g	0.0979	
Δ9-THC per 3g	< LOQ		mg/3g	0.0979	
THC-A per 3g	< LOQ		mg/3g	0.0979	
THC-Total per 3g	< LOQ		mg/3g	0.184	
THCV per 3g†	< LOQ		mg/3g	0.0979	
THCV-A per 3g†	< LOQ		mg/3g	0.0979	
THCV-Total per 3g†	< LOQ		mg/3g	0.184	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2103674	04/26/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2103674	04/26/21	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2103675	04/26/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2103675	04/26/21	AOAC 2014.05 (RAPID)	X

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Solvents

Method Residual Solvents by GC/MS **Units** µg/g **Batch** 2103742 **Analyze** 04/27/21 11:14 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	20.0	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	60.0	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** 2103841 **Analyze** 04/29/21 09:25 AM

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	0.00970	2103731	04/26/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.00970	2103731	04/26/21	AOAC 2013.06 (mod.)	X
Lead	0.0153		mg/kg	0.00696	2103824	04/28/21	AOAC 2013.06 (mod.)	X
Mercury	0.00924		mg/kg	0.00348	2103824	04/28/21	AOAC 2013.06 (mod.)	X

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B2†	< LOQ		µg/kg	5.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Aflatoxin B1†	< LOQ		µg/kg	5.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	200	2103850	04/29/21	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	2103850	04/29/21	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	2103850	04/29/21	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	2103850	04/29/21	AOAC 2007.01 & EN 15662	

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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Moisture (Loss on Drying)	20.0		g/100g	0.10	2103751	04/26/21	AOAC 925.10 (mod.)	X
Water Activity	0.747		Aw	0.030	2103729	04/26/21	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
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/3g = Milligram per 3g
% = 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)
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
CIPC	1.000

Compound	LOQ (mg/kg)
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	0.050
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 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)	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	Oxychlordane	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	Paclobutrazol	0.050	Pyroxsulam	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 (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	0.100
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)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Perthane	0.100	Spiroxamine	0.020
Malaoxon	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	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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Columbia LABORATORIES
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Hemp / Cannabis Usable / Extract
Chain of Custody Record

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

21-004485

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:

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 JG0419	4/19/21	12:00		✓	✓	✓	✓		✓	✓	✓	✓		C	15 g	

Relinquished By:	Date	Time	Received By:	Date	Time
	23APR21	9:20A		4.23.21	9:20

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☑ No - Temp (°C): 17.9
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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-004485/D02.R00
Report Date: 04/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 04/23/21 09:20

Laboratory Quality Control Results

Residual Solvents — **Batch ID:** 2103742

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		530	595	µg/g	89.1	70	-	130	
Isobutane	ND	<	200		695	761	µg/g	91.3	70	-	130	
Butane	ND	<	200		715	761	µg/g	94.0	70	-	130	
2,2-Dimethylpropane	ND	<	200		782	955	µg/g	81.9	70	-	130	
Methanol	ND	<	200		2030	1620	µg/g	125.3	70	-	130	
Ethylene Oxide	ND	<	30		53	58.3	µg/g	90.9	70	-	130	
2-Methylbutane	ND	<	200		1850	1620	µg/g	114.2	70	-	130	
Pentane	ND	<	200		1880	1610	µg/g	116.8	70	-	130	
Ethanol	ND	<	200		1690	1620	µg/g	104.3	70	-	130	
Ethyl Ether	ND	<	200		1740	1600	µg/g	108.8	70	-	130	
2,2-Dimethylbutane	ND	<	30		202	182	µg/g	111.0	70	-	130	
Acetone	ND	<	200		1810	1600	µg/g	113.1	70	-	130	
2-Propanol	ND	<	200		1830	1670	µg/g	109.6	70	-	130	
Ethyl Formate	ND	<	500		1320	1610	µg/g	82.0	70	-	130	
Acetonitrile	ND	<	100		538	490	µg/g	109.8	70	-	130	
Methyl Acetate	ND	<	500		1840	1600	µg/g	115.0	70	-	130	
2,3-Dimethylbutane	ND	<	30		176	165	µg/g	106.7	70	-	130	
Dichloromethane	ND	<	200		594	481	µg/g	123.5	70	-	130	
2-Methylpentane	ND	<	30		185	171	µg/g	108.2	70	-	130	
MTBE	ND	<	500		1850	1610	µg/g	114.9	70	-	130	
3-Methylpentane	ND	<	30		189	171	µg/g	110.5	70	-	130	
Hexane	ND	<	30		196	168	µg/g	116.7	70	-	130	
1-Propanol	ND	<	500		1790	1600	µg/g	111.9	70	-	130	
Methylethylketone	ND	<	500		1950	1620	µg/g	120.4	70	-	130	
Ethyl acetate	ND	<	200		1830	1660	µg/g	110.2	70	-	130	
2-Butanol	ND	<	200		1770	1630	µg/g	108.6	70	-	130	
Tetrahydrofuran	ND	<	100		429	485	µg/g	88.5	70	-	130	
Cyclohexane	ND	<	200		1850	1610	µg/g	114.9	70	-	130	
2-methyl-1-propanol	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
Benzene	ND	<	1		5.8	5.62	µg/g	103.2	70	-	130	
Isopropyl Acetate	ND	<	200		1740	1610	µg/g	108.1	70	-	130	
Heptane	ND	<	200		1640	1610	µg/g	101.9	70	-	130	
1-Butanol	ND	<	500		1540	1610	µg/g	95.7	70	-	130	
Propyl Acetate	ND	<	500		2040	1610	µg/g	126.7	70	-	130	
1,4-Dioxane	ND	<	100		602	511	µg/g	117.8	70	-	130	
2-Ethoxyethanol	ND	<	30		178	168	µg/g	106.0	70	-	130	
Methylisobutylketone	ND	<	500		1900	1650	µg/g	115.2	70	-	130	
3-Methyl-1-butanol	ND	<	500		1750	1610	µg/g	108.7	70	-	130	
Ethylene Glycol	ND	<	200		508	530	µg/g	95.8	70	-	130	
Toluene	ND	<	200		588	487	µg/g	120.7	70	-	130	
Isobutyl Acetate	ND	<	500		1880	1610	µg/g	116.8	70	-	130	
1-Pentanol	ND	<	500		1700	1610	µg/g	105.6	70	-	130	
Butyl Acetate	ND	<	500		1830	1620	µg/g	113.0	70	-	130	
Ethylbenzene	ND	<	200		1020	988	µg/g	103.2	70	-	130	
m,p-Xylene	ND	<	200		1050	978	µg/g	107.4	70	-	130	
o-Xylene	ND	<	200		1130	1040	µg/g	108.7	70	-	130	
Cumene	ND	<	30		197	177	µg/g	111.3	70	-	130	
Anisole	ND	<	500		1900	1620	µg/g	117.3	70	-	130	
DMSO	ND	<	500		1810	1640	µg/g	110.4	70	-	130	
1,2-dimethoxyethane	ND	<	50		185	164	µg/g	112.8	70	-	130	
Triethylamine	ND	<	500		1970	1600	µg/g	123.1	70	-	130	
N,N-dimethylformamide	ND	<	150		610	518	µg/g	117.8	70	-	130	
N,N-dimethylacetamide	ND	<	150		603	488	µg/g	123.6	70	-	130	
Pyridine	ND	<	50		194	172	µg/g	112.8	70	-	130	

Columbia LABORATORIES
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Report Number: 21-004485/D02.R00
Report Date: 04/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 04/23/21 09:20

QC - Sample Duplicate **Sample ID: 21-004299-0003**

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	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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Report Number: 21-004485/D02.R00
Report Date: 04/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 04/23/21 09:20

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: 2103812/2103813**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00906	0.01	%	90.6	85.0 - 115	Acceptable	
CBDV	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBD-A	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
CBG-A	0.00911	0.01	%	91.1	85.0 - 115	Acceptable	
CBG	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
CBD	0.0109	0.01	%	109	85.0 - 115	Acceptable	
THCV	0.00947	0.01	%	94.7	85.0 - 115	Acceptable	
THCVA	0.00859	0.01	%	85.9	85.0 - 115	Acceptable	
CBN	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THC	0.00992	0.01	%	99.2	85.0 - 115	Acceptable	
D8THC	0.00939	0.01	%	93.9	85.0 - 115	Acceptable	
CBL	0.00875	0.01	%	87.5	85.0 - 115	Acceptable	
CBC	0.0105	0.01	%	105	85.0 - 115	Acceptable	
THCA	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBCA	0.00883	0.01	%	88.3	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBDV	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBD-A	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBG-A	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBG	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBD	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCV	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCVA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBN	<LOQ	0.0006	%	< 0.0006	Acceptable	
THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
D8THC	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBL	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBC	<LOQ	0.0006	%	< 0.0006	Acceptable	
THCA	<LOQ	0.0006	%	< 0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	< 0.0006	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: 2103812/2103813**			
Sample Duplicate					Sample ID: **21-004291-0001-02**			
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	0.00317	0.00315	0.003	%	0.549	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 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	0.113	0.114	0.003	%	0.596	< 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

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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.