



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



Report Number: 21-000668/D05.R00
Report Date: 01/27/2021
ORELAP#: OR100028
Purchase Order:
Received: 01/20/21 11:19

Customer: Centr Brands USA LLC
Product identity: CENTR 30mg CBD
Client/Metric ID: .
Laboratory ID: 21-000668-0001

Sample Date: 01/18/21

Summary

Potency:

Analyte per 12fl oz	Result	Limits	Units	Status	
CBD per 12fl oz	31.7		mg/12fl oz		CBD-Total per 12fl oz 31.7 mg/12fl oz
					THC-Total per 12fl oz <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 ¹	< LOQ for all analytes		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Centr Brands USA LLC

Product identity: CENTR 30mg CBD
Client/Metric ID: .
Sample Date: 01/18/21
Laboratory ID: 21-000668-0001
Relinquished by: Client
Temp: 9.5 °C
Serving Size #1: 354.244 g
Density: 0.9982 g/ml

Sample Results

Potency per 12fl oz		Method J AOAC 2015 V98-6 (mod)		Batch: 2100721	Analyze: 1/22/21 11:12:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBC-A per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBC-Total per 12fl oz [†]	< LOQ		mg/12fl oz	0.664	
CBD per 12fl oz	31.7		mg/12fl oz	0.354	
CBD-A per 12fl oz	< LOQ		mg/12fl oz	0.354	
CBD-Total per 12fl oz	31.7		mg/12fl oz	0.664	
CBDV per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBDV-A per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBDV-Total per 12fl oz [†]	< LOQ		mg/12fl oz	0.661	
CBG per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBG-A per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBG-Total per 12fl oz [†]	< LOQ		mg/12fl oz	0.661	
CBL per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
CBN per 12fl oz	< LOQ		mg/12fl oz	0.354	
Δ8-THC per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
Δ9-THC per 12fl oz	< LOQ		mg/12fl oz	0.354	
THC-A per 12fl oz	< LOQ		mg/12fl oz	0.354	
THC-Total per 12fl oz	< LOQ		mg/12fl oz	0.664	
THCV per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
THCV-A per 12fl oz [†]	< LOQ		mg/12fl oz	0.354	
THCV-Total per 12fl oz [†]	< LOQ		mg/12fl oz	0.665	
Total Cannabinoids 12fl oz[†]	31.7		mg/12fl oz		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2100582	01/23/21	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ		cfu/g	10	2100584	01/23/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2100584	01/23/21	AOAC 991.14 (Petrifilm)	X
Staphylococcus aureus	< LOQ		cfu/g	10	2100587	01/22/21	AOAC 2003.07	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2100586	01/23/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2100586	01/23/21	AOAC 2014.05 (RAPID)	X
Salmonella spp.	Negative		/25g		2100588	01/22/21	AOAC 2016.01	X
Listeria spp.	Negative		/25g		2100589	01/22/21	AOAC 2016.07	X
E.coli O157:H7	Negative		/25g		2100590	01/22/21	AOAC 2017.01	X

Solvents Method EPA5021A Units µg/g Batch 2100608 Analyze 01/21/21 01:57 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	< 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 2100805 Analyze 01/27/21 03:22 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	0.00197	2100618	01/21/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.00197	2100618	01/21/21	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.00197	2100618	01/21/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.00098	2100618	01/21/21	AOAC 2013.06 (mod.)	X

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.

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



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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

/25g = Per 25g

cfu/g = Colony forming units per gram

g = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

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

mg/12fl oz = Milligram per 12fl oz

% = Percentage of sample

% 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	Clethodim	0.050	Endrin	0.100
Acephate	0.100	Clethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfoxide	0.050	EPTC	0.100
Acetamiprid	0.020	Clofentezine	0.020	Esfenvalerate/Fenvalerate	0.200
Acetochlor	0.100	Clomazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Clothianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Coumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crotoxyphos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cyanazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyanofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyantranilprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazofamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cycloate	0.100	Etoxazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Etrimfos	0.020
Atrazine	0.100	Cymoxanil	0.050	Famoxadone	0.200
Atrazine-desethyl	0.100	Cypermethrin	0.200	Famphur	0.100
Azinphos-ethyl	0.020	Cyprodinil	0.100	Fenamidone	0.020
Azinphos-methyl	0.020	Dacthal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Daminozide	0.100	Fenamiphos sulfone	0.020
Benalaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, o,p'-	0.100	Fenazaquin	0.100
Benfluralin	0.100	DDD, p,p'-	0.100	Fenbuconazole	0.100
Benoxacor	0.050	DDE, o,p'-	0.100	Fenchlorphos	0.100
Bensulide	0.050	DDE, p,p'-	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDT, o,p'-	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, p,p'-	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DEF (Tribufos)	0.100	Fenobucarb	0.050
Bifenazate	0.020	Deltamethrin	0.100	Fenoxycarb	0.020
Bifenthrin	0.020	Desmedipham	0.100	Fenpropathrin	0.050
Boscalid	0.020	Diallate	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diazinon	0.020	Fenson	0.100
Bromophos-methyl	0.200	Diazoxon	0.100	Fensulfthion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfthion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfthion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutrazol	0.050	Fenthion	0.050
Butachlor	0.500	Dicofol	0.100	Fenthion oxon	0.020
Butralin	0.200	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Butylate	0.100	Dieldrin	0.100	Fenthion sulfone	0.050
Cadusafos	0.020	Diethofencarb	0.020	Fenuron	0.020
Captan	1.000	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbaryl	0.050	Difenoconazole	0.100	Fonicamid	0.100
Carbendazim	0.100	Dimethenamid	0.050	Fluchloralin	0.100
Carbofuran	0.020	Dimethoate	0.050	Flucythrinate	0.100
Carbophenothion	0.200	Dimethomorph	0.050	Fludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	Flufenacet	0.020
Carfentrazone-ethyl	0.100	Dinotefuran	0.200	Flumioxazin	0.100
Chlorantranilprole	0.020	Dioxathion	0.100	Fluometuron	0.020
Chlordane, cis-	0.200	Diphenamid	0.020	Fluopicolide	0.050
Chlordane, trans-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenson	0.200	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenvinphos	0.050	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chlorobenzilate	0.100	Diuron	0.050	Flusilazole	0.020
Chloroneb	0.200	Edifenphos	0.050	Flutolanil	0.020
Chlorpyrifos	0.050	Endosulfan alpha	0.200	Flutriafol	0.020
Chlorpyrifos-methyl	0.200	Endosulfan beta	0.200	Fluvalinate, tau-	0.100
CIPC	1.000	Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Fomesafen	0.100	Mexacarbate	0.020	Propamocarb	0.050
Fonofos	0.100	MGK 264	0.020	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
Isfenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isfenphos-methyl	0.020	Paraoxon-methyl	0.100	Quinoxifen	0.050
Isfenphos 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
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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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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Hemp Products
Chain of Custody Record
 Revision: 0.00 Control#: CF002 Rev: 02/27/2020 Eff: 02/27/2020
 ORELAP ID: **OR100028**

21-000668

Company: CENTR BRANDS USA LLC Contact: ARJAN CHIMA Street: 200-2318 OAK STREET City: VANCOUVER State: BC Zip: V6H 4J1 Email Results: ARJAN@CENTRCORP.COM Ph: (778) 8798613 Fx Results: ()			Analysis Requested					PO Number: _____ Project Number: _____ Project Name: MARKET OF CHOICE VENDOR REVIEW Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turn-around time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * *Ask for availability Sampled by: _____			
Lab ID	Client Sample Identification	Date	M9000	H0010	P2320	H0008	H0013	Sample Type †	Report units (potency)	Serving size (edibles)	Comments/Metric ID
1	CENTR 30mg CBD	1/18/20	✓	✓	✓	✓	✓	B	mg/serving	12OZ	3 cans for each
2	CENTR SUGAR FREE 30mg CBD	1/18/20	✓	✓	✓	✓	✓	B	mg/serving	12OZ	
Relinquished By: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____			Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop off Evidence of cooling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 9.5 Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____					

† - Sample type codes: Topicals (L); Edibles (E); Tincture (T); Bath Salts (S); Beverages (B)
 Report unit options: %; mg/g; mg/serving

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P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

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Received: 01/20/21 11:19

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2100608					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		665	595	µg/g	111.8	70	- 130
Isobutane	ND	< 200		852	761	µg/g	112.0	70	- 130
Butane	ND	< 200		877	761	µg/g	115.2	70	- 130
2,2-Dimethylpropane	ND	< 200		1010	955	µg/g	105.8	70	- 130
Methanol	ND	< 200		1850	1610	µg/g	114.9	70	- 130
Ethylene Oxide	ND	< 30		64.7	58.3	µg/g	111.0	70	- 130
2-Methylbutane	ND	< 200		1990	1630	µg/g	122.1	70	- 130
Pentane	ND	< 200		1900	1610	µg/g	118.0	70	- 130
Ethanol	ND	< 200		1880	1620	µg/g	116.0	70	- 130
Ethyl Ether	ND	< 200		1950	1630	µg/g	119.6	70	- 130
2,2-Dimethylbutane	ND	< 30		217	176	µg/g	123.3	70	- 130
Acetone	ND	< 200		2000	1610	µg/g	124.2	70	- 130
2-Propanol	ND	< 200		1860	1620	µg/g	114.8	70	- 130
Acetonitrile	ND	< 100		569	498	µg/g	114.0	70	- 130
2,3-Dimethylbutane	ND	< 30		173	165	µg/g	104.8	70	- 130
Dichloromethane	ND	< 200		518	482	µg/g	107.5	70	- 130
2-Methylpentane	ND	< 30		177	164	µg/g	107.9	70	- 130
3-Methylpentane	ND	< 30		169	163	µg/g	103.7	70	- 130
Hexane	ND	< 30		151	166	µg/g	91.0	70	- 130
Ethyl acetate	ND	< 200		1740	1610	µg/g	108.1	70	- 130
2-Butanol	ND	< 200		1550	1620	µg/g	95.7	70	- 130
Tetrahydrofuran	ND	< 100		472	509	µg/g	92.7	70	- 130
Cyclohexane	ND	< 200		1720	1620	µg/g	106.2	70	- 130
Benzene	ND	< 1		30.8	30.2	µg/g	102.0	70	- 130
Isopropyl Acetate	ND	< 200		1830	1610	µg/g	113.7	70	- 130
Heptane	ND	< 200		1610	1610	µg/g	100.0	70	- 130
1,4-Dioxane	ND	< 100		567	493	µg/g	115.0	70	- 130
2-Ethoxyethanol	ND	< 30		188	168	µg/g	111.9	70	- 130
Ethylene Glycol	ND	< 200		444	483	µg/g	91.9	70	- 130
Toluene	ND	< 200		541	491	µg/g	110.2	70	- 130
Ethylbenzene	ND	< 200		1010	966	µg/g	104.6	70	- 130
m,p-Xylene	ND	< 200		1010	982	µg/g	102.9	70	- 130
o-Xylene	ND	< 200		1040	976	µg/g	106.6	70	- 130
Cumene	ND	< 30		162	162	µg/g	100.0	70	- 130



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Report Number: 21-000668/D05.R00
Report Date: 01/27/2021
ORELAP#: OR100028
Purchase Order:
Received: 01/20/21 11:19

QC - Sample Duplicate Sample ID: 21-000732-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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

Units of Measure:

µg/g - Microgram per gram or ppm



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2100721								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDA	0.000922	0.001	%	92.2	85.0 - 115	Acceptable		
CBV	0.000959	0.001	%	95.9	85.0 - 115	Acceptable		
CBDA	0.000978	0.001	%	97.8	85.0 - 115	Acceptable		
CBGA	0.000940	0.001	%	94.0	85.0 - 115	Acceptable		
CBG	0.000979	0.001	%	97.9	85.0 - 115	Acceptable		
CB	0.00101	0.001	%	101	85.0 - 115	Acceptable		
THCV	0.00100	0.001	%	100	85.0 - 115	Acceptable		
THCVA	0.000866	0.001	%	86.6	85.0 - 115	Acceptable		
CBN	0.00108	0.001	%	108	85.0 - 115	Acceptable		
THC	0.00110	0.001	%	110	85.0 - 115	Acceptable		
DBTHC	0.000909	0.001	%	90.9	85.0 - 115	Acceptable		
CB	0.000980	0.001	%	98.0	85.0 - 115	Acceptable		
CB	0.000978	0.001	%	97.8	85.0 - 115	Acceptable		
THCA	0.000981	0.001	%	98.1	85.0 - 115	Acceptable		
CBDA	0.000879	0.001	%	87.9	85.0 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBV	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBDA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBGA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBG	<LOQ	0.0001	%	< 0.0001	Acceptable		
CB	<LOQ	0.0001	%	< 0.0001	Acceptable		
THCV	<LOQ	0.0001	%	< 0.0001	Acceptable		
THCVA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBN	<LOQ	0.0001	%	< 0.0001	Acceptable		
THC	<LOQ	0.0001	%	< 0.0001	Acceptable		
DBTHC	<LOQ	0.0001	%	< 0.0001	Acceptable		
CB	<LOQ	0.0001	%	< 0.0001	Acceptable		
CB	<LOQ	0.0001	%	< 0.0001	Acceptable		
THCA	<LOQ	0.0001	%	< 0.0001	Acceptable		
CBDA	<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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Report Number: 21-000668/D05.R00
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Received: 01/20/21 11:19

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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2100721						
Sample Duplicate				Sample ID: 21-000635-0001				
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD-A	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG-A	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBD	0.00655	0.00645	0.0001	%	1.60	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
D8THC	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0001	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0001	%	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	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.