



CERTIFICATE OF ANALYSIS

Not for Regulatory Compliance

Date: Apr 07, 2023

Botanical Brewing Company

Citrus Twist CBD

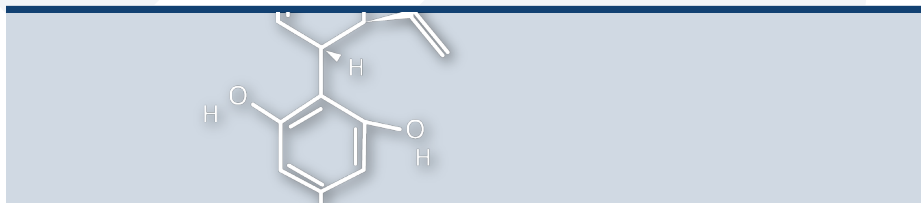
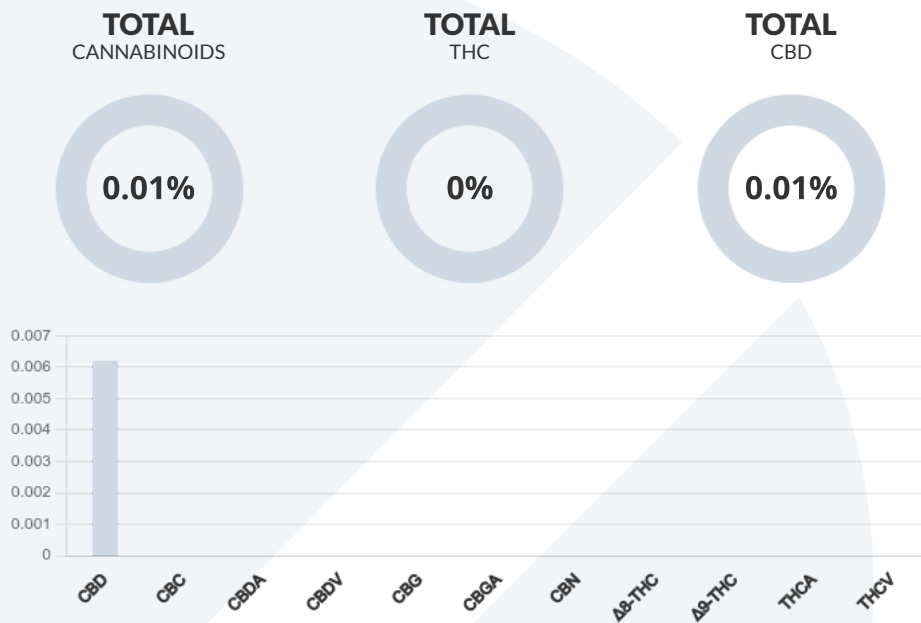
Edible Liquid



SAMPLE INFORMATION

Sample ID: CTND-230403-028
Sample Name: Citrus Twist CBD
Matrix: Edible Liquid
Sample Size: 1 Units
Cultivar(s): N/A
Date Collected: Apr 03, 2023
Date Received: Apr 03, 2023
Received By: Adriana S. Ramirez

Cannabinoids



Cannabinoids	Heavy Metals	Microbials	Total Contaminant Load	Foreign Matter	Moisture Content
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TESTED	TESTED	TESTED	TESTED	NOT TESTED	NOT TESTED
Mycotoxins	Pesticides	Residual Solvents	Terpenes	Water Activity	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	



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Luis Jimenez
 Laboratory Director
 Apr 07, 2023

Lovell Metzgar
 Quality Manager
 Apr 07, 2023



Cannabinoids

Testing Method: CTND-FL-SOP-P-001, CTND-FL-SOP-P-002: Cannabinoids by HPLC-PDA

TESTED

Analyte	Dilution	LOD	LOQ	Results	Results	Results
	1:n	mg/g	mg/g	%	mg/g	mg/pkg
CBC	10	0.00199	0.00496	ND	ND	
CBD	10	0.00199	0.00496	0.00620	0.0620	
CBDA	10	0.00199	0.00496	ND	ND	
CBDV	10	0.00199	0.00496	ND	ND	
CBG	10	0.00199	0.00496	ND	ND	
CBGA	10	0.00199	0.00496	ND	ND	
CBN	10	0.00199	0.00496	ND	ND	
Δ ⁸ -THC	10	0.00199	0.00496	ND	ND	
Δ ⁹ -THC	10	0.00199	0.00496	ND	ND	
THCA	10	0.00199	0.00496	ND	ND	
THCV	10	0.00199	0.00496	ND	ND	
Total THC				ND	ND	
Total CBD				0.00620	0.0620	

Prepared By: 2, 2
Prep Date: Apr 05, 2023
18:40:00 UTC
Prep Weight: 10.0736 Grams

Analyzed By: 2
Analysis Date: Apr 06, 2023
00:57:00 UTC
Lab Batch #: P230051

Reviewed By: 6
Review Date: Apr 07, 2023
13:45:00 UTC

Foreign Matter

Testing Method: Foreign Matter

NOT TESTED

Analyte	Limit	Results
Feces		NT
Filth		NT

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

Mycotoxins

Testing Method: Mycotoxins

NOT TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n			ppb	
Aflatoxin B1					NT
Aflatoxin B2					NT
Aflatoxin G1					NT
Aflatoxin G2					NT
Ochratoxin A					NT
Aflatoxins					NT

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

Terpenes

Testing Method: Terpenes

NOT TESTED

Analyte	Dilution	LOD	LOQ	Results	Results
	1:n			%	
(-)-Caryophyllene oxide					NT
(-)-Guaiaol					NT
(-)-Isopulegol					NT
(-)-α-Bisabolol					NT
1,8-Cineole					NT
Camphene					NT
Δ ³ -Carene					NT
Geraniol					NT
Linalool					NT
Terpinolene					NT
α-Humulene					NT
α-Pinene					NT
α-Terpinene					NT
β-Caryophyllene					NT
β-Myrcene					NT
β-Pinene					NT
cis-Nerolidol					NT
cis-β-Ocimene					NT
d-Limonene					NT
γ-Terpinene					NT
p-Cymene					NT
trans-Nerolidol					NT
trans-β-Ocimene					NT
Total Terpenes					ND ND

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

Moisture Content

Testing Method: Moisture Content

NOT TESTED

Analyte	Limit	Results
Moisture		NT

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

Water Activity

Testing Method: Water Activity

NOT TESTED

Analyte	Limit	Results
Water Activity		NT

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A



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Luis Jimenez
Laboratory Director
Apr 07, 2023



Lovell Metzgar
Quality Manager
Apr 07, 2023

Definitions and Equations: Total THC = THCa*0.877 + d9-THC, Total CBD = CBDa*0.877 + CBD, LOQ = Limit of Quantification, LOD = Limit of Detection, NT = Not Tested, ND = Not Detected. This report, and all results within, relates only to the product submitted and tested, and may not be reproduced without written approval from Certified Testing and Data (CTND). CTND has been accredited by an unbiased thirdparty agency to ISO 17025 standards.



Pesticides

Testing Method: Pesticides

NOT TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results	Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n			ppb			1:n			ppb	
Abamectin					NT	Imidacloprid					NT
Acephate					NT	Kresoxim-methyl					NT
Acequinocyl					NT	Malathion					NT
Acetamiprid					NT	Metalaxyl					NT
Aldicarb					NT	Methiocarb					NT
Azoxystrobin					NT	Methomyl					NT
Bifenazate					NT	Methyl parathion					NT
Bifenthrin					NT	Mevinphos					NT
Boscalid					NT	Myclobutanil					NT
Captan					NT	Naled					NT
Carbaryl					NT	Oxamyl					NT
Carbofuran					NT	Paclobotrazol					NT
Chlorantraniliprole					NT	Pentachloronitrobenzene					NT
Chlordane					NT	Permethrin cis					NT
Chlorfenapyr					NT	Permethrin trans					NT
Chlormequat chloride					NT	Phosmet					NT
Chlorpyrifos					NT	Piperonylbutoxide					NT
Clofentezine					NT	Prallethrin					NT
Coumaphos					NT	Propiconazole					NT
Cyfluthrin					NT	Propoxur					NT
Cypermethrin					NT	Pyrethrins Cinerin I					NT
Daminozide					NT	Pyrethrins Cinerin II					NT
Diazinon					NT	Pyrethrins Jasmolin I					NT
Dichlorvos					NT	Pyrethrins Jasmolin II					NT
Dimethoate					NT	Pyrethrins Pyrethrin I					NT
Dimethomorph					NT	Pyrethrins Pyrethrin II					NT
Ethoprophos					NT	Pyridaben					NT
Etofenprox					NT	Spinetoram					NT
Etoxazole					NT	Spinosad A					NT
Fenhexamid					NT	Spinosad D					NT
Fenoxycarb					NT	Spiromesifen					NT
Fenpyroximate					NT	Spirotetramat					NT
Fipronil					NT	Spiroxamine					NT
Flonicamid					NT	Tebuconazole					NT
Fludioxonil					NT	Thiacloprid					NT
Hexythiazox					NT	Thiamethoxam					NT
Imazalil					NT	Trifloxystrobin					NT

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

Heavy Metals

Testing Method: CTND-FL-SOP-M-001: Heavy Metals by ICP-MS

TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results	Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb		1:n	ppb	ppb	ppb	ppb
Lead	1	50.0	250	500	ND	Cadmium	1	20.0	100	500	ND
Arsenic	1	20.0	100	1500	ND	Mercury	1	20.0	100	3000	ND

Prepared By: 5, 5
Prep Date: Apr 04, 2023 13:41:00 UTC
Prep Weight: 1.021 Grams

Analyzed By: 5
Analysis Date: Apr 04, 2023 18:21:00 UTC
Lab Batch #: , M230018

Reviewed By: 5
Review Date: Apr 04, 2023 18:22:00 UTC

Total Contaminant Load: 0 ppm | Action Limit: 30 ppm

TESTED



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Microbials

TESTED

Analyte	Limit	Results	Testing & Prep Method:			
Salmonella spp.	Any amt in 1 gram	Absent	CTND-FL-SOP-B-002, CTND-FL-SOP-B-006: Salmonella by qPCR			
			Prepared By:	Prep Date:	Reviewed By:	Review Date:
			12	Apr 03, 2023 17:51:00 UTC	8	Apr 05, 2023 19:22:00 UTC
			Analyzed By:	Analysis Date:	Lab Batch #:	
			12	Apr 04, 2023 17:50:00 UTC	B230052	

Analyte	Limit	Results	Testing & Prep Method:			
Shiga toxin-producing E. coli		Absent	CTND-FL-SOP-B-001, CTND-FL-SOP-B-006: Shiga Toxin-producing E. Coli by qPCR			
			Prepared By:	Prep Date:	Reviewed By:	Review Date:
			12	Apr 03, 2023 17:52:00 UTC	8	Apr 05, 2023 19:22:00 UTC
			Analyzed By:	Analysis Date:	Lab Batch #:	
			12	Apr 04, 2023 17:52:00 UTC	B230052	

Analyte	Limit	Results	Testing & Prep Method:			
Yeast & Mold		<10	CTND-FL-SOP-B-005: Total Yeast & Mold by Petrifilm			
			Prepared By:	Prep Date:	Reviewed By:	Review Date:
			12	Apr 03, 2023 16:55:00 UTC	8	Apr 05, 2023 19:22:00 UTC
			Analyzed By:	Analysis Date:	Lab Batch #:	
			12	Apr 05, 2023 18:55:00 UTC	B230054	

Analyte	Limit	Results	Testing & Prep Method:			
Aspergillus spp.	Any amt in 1 gram	Absent	CTND-FL-SOP-B-007, CTND-FL-SOP-B-003: Aspergillus by qPCR			
Aspergillus niger		Absent	Prepared By:	Prep Date:	Reviewed By:	Review Date:
Aspergillus flavus		Absent	12	Apr 03, 2023 18:30:00 UTC	8	Apr 05, 2023 19:20:00 UTC
Aspergillus terreus		Absent	Analyzed By:	Analysis Date:	Lab Batch #:	
Aspergillus fumigatus		Absent	12	Apr 05, 2023 19:19:00 UTC	B230053	

Residual Solvents

Testing Method: Residual Solvents

NOT TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results	Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n			ppm			1:n			ppm	
1,1-Dichloroethene					NT	Hexane					NT
1,2-Dichloroethane					NT	Isopropyl alcohol					NT
Acetone					NT	Methanol					NT
Acetonitrile					NT	Methylene chloride					NT
Benzene					NT	Pentane					NT
Butane					NT	Propane					NT
Chloroform					NT	Toluene					NT
Ethanol					NT	Total xylenes					NT
Ethyl acetate					NT	Trichloroethylene					NT
Ethyl ether					NT	o-Xylene					NT
Ethylene oxide					NT	p- and m-Xylene					NT
Heptane					NT						

Prepared By: N/A
Prep Date: N/A
Prep Weight: N/A

Analyzed By: N/A
Analysis Date: N/A
Lab Batch #: N/A

Reviewed By: N/A
Review Date: N/A

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