



# Folium Biosciences

## CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** Broad Spectrum CBD Oil (0.0% THC) Tinctures

**PRODUCT CODE:** T-NO-1,000mg-MI-MCT-BL-1oz

**LOT NUMBER:** JP050520T2 (Sales Order# BREM-005-ANB-2, (Total of (300) 1 oz bottles)

**OIL BATCH NUMBER:** CONO20-01

**DATE OF MANUFACTURE:** 05May2020

*Expiration date is 24 months under sealed conditions.*

**ACTIVE INGREDIENTS:** Broad Spectrum CBD Oil (0.0% THC)

**INACTIVE INGREDIENTS:** Medium Chain Triglycerides (MCT Oil), Peppermint Oil, Stevia

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Clear to Light Yellow	Conforms	QCU002
Cannabinoid Content	95 - 110% of target concentration CBD, 0.0% THC	1,000 mg CBD per 1 oz, 0.0% THC	QCU001

Package	Acceptance Criteria	Results
Primary Package	Container dedusted and wiped clean Container caps screwed on tight	Conforms
Secondary Package	Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides	Conforms

Note: Bulk tinctures assume an oil density of 0.92g/mL. Therefore, to fill 1 oz tinctures, we recommend filling them to 28 grams in order to ensure accurate dosing. The density can be used to calculate the fill weight for other package sizes.

Storage: Room Temperature, Protect from Light

Prepared by: *Jalen Smith*

Date: *07 May 2020*

Inspection Control, Folium Biosciences

Reviewed by: *Joshua D. Beach*

Date: *07 May 2020*

Inspection Control, Folium Biosciences

This product is not intended to diagnose, treat, cure, or prevent any disease and has not been evaluated by the FDA.



**CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** Broad Spectrum CBD Oil (0.0% THC)

**PRODUCT CODE:** BO-NO-Y-Z-A

**LOT NUMBER:** CONO20-01

**DATE OF MANUFACTURE:** 11OCT2019  
(DDMMYYYY)

**EXPIRATION DATE:** 11OCT2021  
(Expiration date is 24 months under sealed conditions.)

**INGREDIENTS:** Phytocannabinoid-Rich Oil

Parameter	Method <sup>1</sup>	Specification		Result
Appearance	QCU002	Viscous Oil, Possible Crystal Formation		Pass
Color		Pale yellow to amber to brown		Pass
Dissolution		Soluble and translucent		Pass
<b>Cannabinoids</b>	QCU001 (UHPLC-DAD)	<b>LOQ (ppm)</b>	<b>Wt. (%)</b>	<b>(mg/g)</b>
CBD		20	83.562	835.620
CBD-A		20	< LOQ	< LOQ
Δ9-THC		5	< LOQ	< LOQ
THC-A		5	< LOQ	< LOQ
CBN		5	< LOQ	< LOQ
CBN-A		5	< LOQ	< LOQ
CBG		5	< LOQ	< LOQ
CBC		5	< LOQ	< LOQ
CBC-A		5	< LOQ	< LOQ
Δ8-THC		5	< LOQ	< LOQ
CBDV		5	1.287	12.873
CBDV-A		5	< LOQ	< LOQ
THCV		5	< LOQ	< LOQ
<b>Potency – Total CBD</b>		≥80.0 wt%		83.6 wt%
<b>Total THC</b>		0.0%		0.0%
<b>Identity – CBD</b>		Retention Time ± 0.05min of Standard		0.00 min

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Parameter	Method <sup>1</sup>	Specification	Results
Pesticides	LC/MS GC/MS (Green Scientific)	Conforms to EPA limits	Pass
<b>Residual Solvents</b>			
Ethanol		5000 ppm	Pass
Methanol	USP	3000 ppm	Pass
Pentane	<467>	5000 ppm	Pass
Acetone		5000 ppm	Pass
Isopropyl Alcohol	GC FID	5000 ppm	Pass
Heptane	(Green Scientific)	5000 ppm	Pass
Hexane		290 ppm	Pass
<b>Heavy Metals</b>			
Arsenic	USP	<1.5 ppm	Pass
Cadmium	<2232>	<0.5 ppm	Pass
Lead	ICP-MS	<0.5 ppm	Pass
Mercury	(Green Scientific)	<0.2 ppm	Pass
<b>Microbial Limits</b>			
Total aerobic plate count	USP	<1000 cfu/g	Pass
Total yeast & mold	<2023>	<100 cfu/g	Pass
Enterobacteriaceae	(Green Scientific)	<10 MPN/g	Pass
Aspergillus		Absent	Pass
E. coli		Absent	Pass
Salmonella		Absent	Pass
<b>Mycotoxins</b>			
Aflatoxin B1	USP	<5ppb	Pass
Aflatoxin B2	<561>	<5ppb	Pass
Aflatoxin G1		<5ppb	Pass
Aflatoxin G2	LC-MS	<5ppb	Pass
Total Aflatoxins	(CannaSafe)	<20ppb	Pass
Ochratoxin A		<10ppb	Pass

*Notes: <sup>1</sup>according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3<sup>rd</sup> party contract laboratory method.*

*ND=Not Detected*

*The above certificate of analysis is based on Product Specification (QA-FRM3-0005 BO-NO-Y-Z-A)*

*Revision No. 01*


Results conform to all specifications:  Yes or No

**Note:** When sampling, manufacturing, or formulating with this oil, the oil MUST first be heated and liquefied at 70-75°C and mixed thoroughly. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

**Storage:** Room Temperature, Protect from Light, Heat and Moisture

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Prepared by: Jill Bogdan  Date: 31 Mar 2020  
Quality Control, Folium Biosciences

Reviewed by: Chris Didomenico  Date: 01 APR 2020  
Quality Control, Folium Biosciences

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