



CERTIFICATE OF QUALITY ASSURANCE

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

PRODUCT CODE: T-NO-250mg/1oz-NF-MCT-BULK

LOT NUMBER: JP061920T5 (Sales Order# YODE-017-MS-4, Total of 1,030 g Active, total 114,240 g oil)

OIL BATCH NUMBER: CONO20-02

DATE OF MANUFACTURE: 19Jun2020

Expiration date is 24 months under sealed conditions.

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

INACTIVE INGREDIENTS: Medium Chain Triglycerides (MCT Oil)

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	250 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

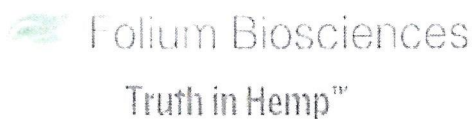
Note: Bulk tinctures assume an oil density of 0.92g/mL. Therefore, to fill 1 oz tinctures, we recommend filling them to 28 grams in order to ensure accurate dosing. The density can be used to calculate the fill weight for other package sizes.

Storage: Room Temperature, Protect from Light

Prepared by: Brendon Roseman Date: 30 Jun 2020
Inspection Control, Folium Biosciences

Reviewed by: Johanna D. Heath Date: 30 Jun 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: CONO20-02

DATE OF MANUFACTURE: 17NOV2019

EXPIRATION DATE: 17NOV2021


(DDMMYYYY)

(Expiration date is 24 months under sealed conditions.)

INGREDIENTS: Broad Spectrum CBD Oil (0.0% THC)

Parameter	Method ¹	Specification	Results
Appearance		Viscous Oil, Possible Crystal Formation	Pass
Color	QCU002	Pale yellow to amber to brown	Pass
Dissolution		Soluble and translucent	Pass
Cannabinoids		LOQ (ppm)	Wt. (%)
CBD		20	88.876
CBD-A		20	< LOQ
Δ9-THC		5	< LOQ
THC-A		5	< LOQ
CBN		5	0.016
CBN-A		5	< LOQ
CBG	QCU001	5	< LOQ
CBC	(UHPLC-DAD)	5	< LOQ
CBC-A		5	< LOQ
Δ8-THC		5	< LOQ
CBDV		5	1.387
CBDV-A		5	< LOQ
THCV		5	< LOQ
Potency – Total CBD		≥80.0 wt%	88.9 wt%
Total THC		0.0%	0.0%
Identity – CBD		Retention Time ± 0.05min of Standard	0.00 min
Terpenes		For Information Only	
β-Caryophyllene			0.275%
Caryophyllene Oxide			0.228%
Eucalyptol	GC-MS		0.006%
Guaiol	(iLabs)		0.441%
α-Humulene			0.010%
Linalool			0.066%
α-Bisabolol			0.028%

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

*Notes: ¹according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3rd 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

Prepared by: Jill Bogdan  Date: 19 May 2020
Quality Control, Folium Biosciences

Reviewed by: Chris Didomenico  Date: 19 MAY 2020
Quality Control, Folium Biosciences