



CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: Broad Spectrum Hemp Oil Tinctures

PRODUCT CODE: T-NO-1,000mg-NF-MCT-BR-1oz

LOT NUMBER: JP032321T9 (Sales Order# THDO-007-CT-5, Total of (500) 1 oz bottles)

OIL BATCH NUMBER: CONO20-40

DATE OF MANUFACTURE: 23Mar2021

Expiration date is 24 months under sealed conditions.

ACTIVE INGREDIENTS: Broad Spectrum Hemp Oil

INACTIVE INGREDIENTS: Medium Chain Triglycerides (MCT Oil)

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Clear	Conforms	QCU002
Cannabinoid Content	NLT 95% 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: Nathaniel Amy Date: 07Apr21
Inspection Control, Folium Biosciences

Reviewed by: Paul Moring Date: 08Apr21
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: CONO20-40

DATE OF MANUFACTURE: 06NOV2020

EXPIRATION DATE: 06NOV2022

(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	86.249
CBD-A		20	< LOQ
Δ9-THC		5	0.027
THC-A		5	< LOQ
CBN		5	0.028
CBN-A		5	< LOQ
CBG	QCU001	5	< LOQ
CBC	(UHPLC-DAD)	5	< LOQ
CBC-A		5	< LOQ
Δ8-THC		5	< LOQ
CBDV		5	1.390
CBDV-A		5	< LOQ
THCV		5	< LOQ
Potency – Total CBD		NLT 80.0 wt%	86.2 wt%
Total THC		0.0%	0.0%
Identity – CBD		Retention Time ± 0.05min of Standard	-0.01 min
Terpenes		For Information Only	
β-Caryophyllene			0.25%
Caryophyllene Oxide			0.14%
Guaiol	GC-MS		0.14%
α-Humulene	(CannaSafe)		< LOQ
Linalool			0.04%

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Parameter	Method ¹	Specification	Results
Pesticides	LC/MS GC/MS (CannaSafe)	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 (CannaSafe)	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	(CannaSafe)	<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	(CannaSafe)	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	(CannaSafe)	<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: Blake Breitmeyer  Date: 17 Mar 2021
Quality Control, Folium Biosciences

Reviewed by: Chris Didomenico  Date: 17 MAR 2021
Quality Control, Folium Biosciences

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