Folium Biosciences

CERTIFICATE OF QUALITY ASSURANCE

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

PRODUCT CODE: T-NO-1,000mg/1oz-NF-STD-BULK

LOT NUMBER: JP111920T7 (Sales Order# ESSS-023-JE-2, (Total of 14,280 g Total)

OIL BATCH NUMBER: CONO20-17

DATE OF MANUFACTURE: 19Nov2020

Expiration date is 24 months under sealed conditions.

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

INACTIVE INGREDIENTS: Hemp Seed Oil, Grape Seed Oil

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Yellow Green to Green	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: Jalen Statts Date: 20 NOV 2020

Inspection Control, Folium Biosciences

Reviewed by: [signature] Date: 20 NOV 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.

www.foliumbiosciences.com Phone: 719-574-2159 info@foliumbiosciences.com

Folium Biosciences

Truth in Hemp™

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Broad Spectrum CBD Hemp Oil
PRODUCT CODE: BO-NO-Y-Z-A
LOT NUMBER: CONO20-17
DATE OF MANUFACTURE: 12JAN2020 (DDMMMYYYY)
EXPIRATION DATE: 12JAN2022 *(Expiration date is 24 months under sealed conditions.)*

INGREDIENTS: Broad Spectrum CBD Oil (0.0% THC)

Parameter	Method[1]	Specification		Results
Appearance	QCU002	Viscous Oil, Possible Crystal Formation		Pass
Color		Pale yellow to amber to brown		Pass
Dissolution		Soluble and translucent		Pass
Cannabinoids	QCU001 (UHPLC-DAD)	LOQ (ppm)	Wt. (%)	(mg/g)
CBD		20	87.881	878.810
CBD-A		20	< LOQ	< LOQ
Δ9-THC		5	0.030	0.301
THC-A		5	< LOQ	< LOQ
CBN		5	0.031	0.314
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	1.398	13.977
CBDV-A		5	< LOQ	< LOQ
THCV		5	< LOQ	< LOQ
Potency – Total CBD		NLT 80.0 wt%		87.9 wt%
Total THC		0.0%		0.0%
Identity – CBD		Retention Time ± 0.05min of Standard		-0.01min
Terpenes	GC-MS (Green Scientific)	For Information Only		
β-Caryophyllene				0.071%
Caryophyllene Oxide				0.078%
Guaiol				0.051%
Linalool				0.033%

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

Folium Biosciences

Truth in Hemp™

Parameter	Method[1]	Specification	Results
Pesticides	LC/MS GC/MS (Green Scientific)	Conforms to EPA limits	Conforms to EPA limits
Residual Solvents			
Ethanol	USP <467> GC FID (Green Scientific)	5000 ppm	< LOQ
Methanol		3000 ppm	ND
Pentane		5000 ppm	ND
Acetone		5000 ppm	ND
Isopropyl Alcohol		5000 ppm	< LOQ
Heptane		5000 ppm	ND
Hexane		290 ppm	< LOQ
Heavy Metals			
Arsenic	USP <2232> ICP-MS (Green Scientific)	<1.5 ppm	< LOQ
Cadmium		<0.5 ppm	< LOQ
Lead		<0.5 ppm	0.111 ppm
Mercury		<0.2 ppm	< LOQ
Microbial Limits			
Total aerobic plate count	USP <2023> (Green Scientific)	<1000 cfu/g	Below Threshold
Total yeast & mold		<100 cfu/g	Below Threshold
Total coliforms		None	Below Threshold
E. coli		None	Below LOD
Salmonella		None	Below LOD
Mycotoxins			
Aflatoxin B1	USP <561> LC-MS (Green Scientific)	<5ppb	ND
Aflatoxin B2		<5ppb	ND
Aflatoxin G1		<5ppb	ND
Aflatoxin G2		<5ppb	ND
Total Mycotoxins		<20ppb	ND

Notes: [1]according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3rd party contract laboratory method.
ND=Not Detected; LOD=Limit of Detection; LOQ=Limit of Quantitation

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

Prepared by: Joshua D Beach Date: 04 Aug 2020
Quality Control, Folium Biosciences

Reviewed by: _____ Date: 05 AUG 2020
Quality Control, Folium Biosciences