



# Folium Biosciences

## CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** THC-Free Phytocannabinoid-Rich Hemp Oil Tinctures

**PRODUCT CODE:** T-NO-500mg/1oz-MI-HS-BULK

**LOT NUMBER:** DR041919T2 (Sales Order# FEBR-005-EG-C, Total of 255 g cannabinoids, Total of 14,280 g Oil)

**OIL BATCH NUMBER:** CONO19-53

**DATE OF MANUFACTURE:** 19Apr2019

*Expiration date is 18 months under sealed conditions.*

**ACTIVE INGREDIENTS:** THC-Free Phytocannabinoid-Rich Hemp Oil

**INACTIVE INGREDIENTS:** Hemp Seed Oil, Peppermint Oil, Stevia

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Yellow Green to Green	Conforms	QCU002
Cannabinoid Content	95 - 110% of target concentration, THC - Report results	500 mg total Phytocannabinoids per 1 oz, THC Not Detected	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: Jessell Munyon Inspection Control, Folium Biosciences

Reviewed by: Gabrielle Mead Fulfillment, 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 INTERNAL ANALYSIS

**TYPE:** Phytocannabinoid-Rich Hemp Oil/ THC-free

**BATCH No:** CONO19-53

**Date of Manufacture:** 24Mar2019

**Date of Analysis:** 16Apr2019

### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	82.38	823.84
CBG	<0.03	<0.30
CBN	<0.03	<0.30
THC	ND**	ND**
CBC	<0.03	<0.30
THC-A	ND**	ND**
CBD-A	<0.03	<0.30
MAX THC	ND**	ND**
MAX CBD	82.38	823.84
TOTAL ACTIVE	82.38	823.84

### Residual Solvents\*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

### Heavy Metals\*:

Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

### TERPENE RESULTS\*:

	Wt. (%)		Wt. (%)
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
$\beta$ -Maaliene	0.5-2.0	$\alpha$ -Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
$\beta$ -Caryophyllene	0.1-1.0	Linalool	< 0.1
$\alpha$ -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
$\alpha$ -Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
$\alpha$ -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	$\gamma$ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	$\delta$ -3-Carene	< 0.1

### Pesticides\*:

Acequinocyl	ND***	S <sub>f</sub> inosad	ND***
Pyrethrium	ND***	S <sub>f</sub> irotetramat	ND***
Spiromesifen	ND***	B <sub>f</sub> enazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	P <sub>e</sub> clobutrazol	ND***

Test ID: 041619SA

\*Batches are sent out regularly for testing, not all batches tested

\*\* ND = Not Detected using a validated high-performance liquid chromatography test method

\*\*\* Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

### Batch Release:

Chemist: Sophia Alires

Manager: Kathryn Sears

*Sophia Alires* 17Apr2019

*Kathryn Sears* 18Apr2019

SA 18Apr2019  
**COPY**