



CERTIFICATE OF QUALITY ASSURANCE

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

PRODUCT CODE: T-NO-250mg/1oz-MI-HS-BULK

LOT NUMBER: JP081919T1 (Sales Order# YODE-014-MS-1, Total of 4,120 g cannabinoids, Total of 456,960 g Oil)

OIL BATCH NUMBER: CONO19-89

DATE OF MANUFACTURE: 19Aug2019

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	250 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: *Brendon Reseman* Inspection Control, Folium Biosciences

Reviewed by: *Joshua D Beach* Fulfillment, Folium Biosciences

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



Folium Biosciences

CERTIFICATE OF INTERNAL ANALYSIS

TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free

BATCH No: CONO19-89

Date of Manufacture: 13Jun2019

Date of Analysis: 14Jun2019

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	84.99	849.87
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
CBDV	1.23	12.30
CBDV-A	0.05	0.46
THCV	ND**	ND**
MAX THC	ND**	ND**
MAX CBD	84.99	849.87
TOTAL ACTIVE	86.26	862.57

Residual Solvents*:

	Compliant with USP<467>		Compliant with USP<467>
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. (%)
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-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
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

Pesticides*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclobutrazol	ND***

Test ID: 061419SA

*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: Zosha McKinney

Zosha McKinney 17 Jun 2019

Manager: Ashley Orasco

Ashley Orasco 17 Jun 2019

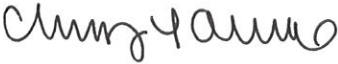
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Zm 17 Jun 2019

History of Change

Revision	Change	Reason for Change	Change Control #	Effective Date
1.3	Update SDS, Folium Heading, various format updates, change PCR oil to Broad Spectrum CBD Hemp Oil, edit ingredients order, change MCT to Fractionated Coconut Oil	Formatting updates to be consistent with PIP's for bulk ingredients and with Product Data Sheet. Edit ingredient names to accurately represent ingredients and the order of ingredients in descending order by weight of formulation.	CC#04620	18Mar2020
1.4	Update Expiration Date to 24 months from date of manufacture under sealed conditions	Product was tested and shelf life was extended based on data	CC#09320	15Apr2020

* Previous revisions of this document were not tracked as part of history of change

Required Signatures

QA Approved by:	Date:
	15Apr2020