



## 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***	Sf inosad	ND***
Pyrethrium	ND***	Sf irotetramat	ND***
Spiromesifen	ND***	B Fenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	P eclobutrazol	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* 17 Apr 2019

*Kathryn Sears* 18 Apr 2019

**COPY**



**COLORADO**  
 Department of Public  
 Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

**Certificate of Health and Free Sale**

December 10, 2018

To Whom It May Concern:

This is to certify that Whole Hemp Company LLC DBA Folium Biosciences, 615 Wooten Road Suite 110, Colorado Springs, Colorado, 80915, is a manufacturer of Manufactured Food products. The following products meet the requirements for human consumption as well as legal distribution and are freely sold in Colorado:

- Soft Gels
- Pills and Capsules
- Tinctures
- Food Supplements
- Beverages
- Bulk oil - THC Non-Detectable
- Water Soluble Powders and Liquids
- Hydro PCR
- Non-detectable THC (Laboratory Results 0.0% Max THC) phytocannabinoid CBD oil and finished food products

Whole Hemp Company LLC DBA Folium Biosciences, as a manufacturer of said products, is subject to the requirements of one or more of the following regulations or statutes:

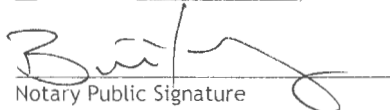
- The Colorado Revised Statutes, including but not limited to the *Colorado Pure Food and Drug Law*;
- The *Colorado Grade A Pasteurized and Fluid Milk Products*;
- The *Colorado Manufactured Milk & Dairy Products Regulations*; or
- The *Colorado Wholesale Food Regulations Current Good Manufacturing Practice in Manufacturing, Packing or Holding Human Food*.

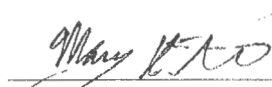
The Division of Environmental Health & Sustainability of the Colorado Department of Public Health and Environment, State of Colorado is responsible for the enforcement of these regulations. The manufacturer is subject to the jurisdiction of this Department and as of the current date, no violations of the above mentioned regulations requiring legal action have been found.

This certificate covers only currently existing conditions and should not be interpreted as a guarantee, explicit or implied, for all products of the said company at all times in the future; neither should it be used for advertising purposes.

**BRIAN YOUNG**  
 NOTARY PUBLIC  
 STATE OF COLORADO  
 NOTARY ID 20174039575  
 MY COMMISSION EXPIRES SEPTEMBER 21, 2021

Subscribed and affirmed before me in the County of Arapahoe, State of Colorado, this 10th day of December, 2018.

  
 Notary Public Signature

  
 Marykate Franks  
 Environmental Protection Specialist  
 Division of Environmental Health & Sustainability





# Folium Biosciences

## CERTIFICATE OF QUALITY ASSURANCE

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

**PRODUCT CODE:** NO-1kg-BULK

**LOT NUMBER:** JP041919B6 (Sales Order# PYPP-010-SN-A, Total of 1,010 g cannabinoids, Total of 1,226 g Oil)

**OIL BATCH NUMBER:** CONO19-53

**DATE OF MANUFACTURE:** 24Mar2019

*Expiration date is 24 months under sealed conditions.*

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

**INACTIVE INGREDIENTS:** N/A

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Viscous Amber Oil Possible Crystal Formation	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Dark Amber	Conforms	QCU002
Dissolution	Not cloudy or turbid, characteristic color	Conforms	QCU002
Cannabinoid Content	80% total Phytocannabinoids, THC - report results	82.38% total Phytocannabinoids, THC Not Detected	QCU001
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	USP<2021>

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:** 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: Jasell Minor Inspection Control, Folium Biosciences

Reviewed by: Gabrielle Neal Fulfillment, Folium Biosciences

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