



Folium Biosciences

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: THC-Free Phytocannabinoid-Rich Water Soluble Powder

PRODUCT CODE: WSP-NO-20%-BULK

LOT NUMBER: JP111819WSP5 (Sales Order# BUDD-011-SG-1, 5,100 g cannabinoids, Total of 22,983.4 g Water Soluble Powder)

BATCH NUMBER: COWSPA19-46

DATE OF MANUFACTURE: 23Aug2019

Expiration date is 18 months under sealed conditions.

ACTIVE INGREDIENTS: THC-Free Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Dextrin, Acacia Gum, Sunflower Lecithin, Vitamin E.

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Amorphous powder	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Pale yellow to beige	Conforms	QCU002
Dissolution	Completely dissolves within timely manner	Conforms	QCU002
Cannabinoid Content	20% total Phytocannabinoids (2% Tolerance), THC Not Detected	22.19% total Phytocannabinoids, 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

Recommended Uses: This product is intended for dissolution immediately before consumption, and not for creating shelf stable beverages. Maximum recommended solubility is 100 mg/fl oz for liquid formulations. For dissolution in water, dissolve powder into warm water and mix under sterilized conditions. For solid products, mix an appropriate amount until desired potency is reached. Qualify storage temperature and preservatives (if needed) for the liquid and solid products, separately. Although Water-Soluble Powder is stable in its pure, anhydrous form and suitable for use in slurries, pastes, thick liquids, and solid finished products. It should only be mixed with other ingredients under sterilized manufacturing conditions and the finished product tested to ensure homogeneity and shelf life.

Storage: Room Temperature, Protect from Light, Protect from Moisture

Prepared by: *Salen Scott* Inspection Control, Folium Biosciences

Reviewed by: *Jarell Murray* 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 Water Soluble Powder

BATCH No: COWSPA19-46

Date of Manufacture: 23Aug2019

Date of Analysis: 09Sep2019

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	22.19	221.9
CBG	< 0.03	< 0.3
CBN	< 0.03	< 0.3
THC	< 0.03	< 0.3
CBC	< 0.03	< 0.3
THC-A	< 0.03	< 0.3
CBD-A	< 0.03	< 0.3
CBDV	< 0.03	< 0.3
CBDV-A	0.05	0.5
THCV	< 0.03	< 0.3
MAX THC	< 0.03	< 0.3
MAX CBD	22.19	221.9
TOTAL ACTIVE	22.24	222.4

Test ID: 090919ZM

Residual Solvents*:

Solvent	Compliant with USP<467>	Solvent	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<2232>
Lead	Compliant with USP<2232>
Arsenic	Compliant with USP<2232>
Mercury	Compliant with USP<2232>

TERPENE RESULTS*:

	Wt. (%)		Wt. (%)
β -Bisabolene	< 0.1	Camphene	< 0.1
β -Farnesene	< 0.1	E-Farnesene	< 0.1
Guaiol	< 0.1	Farnesol	< 0.1
β -Maaliene	< 0.1	α -Bisabolol	< 0.1
Calarene	< 0.1	P-Cymene	< 0.1
β -Caryophyllene	< 0.1	Linalool	< 0.1
α -Humulene	< 0.1	Myrcene	< 0.1
Cadinene	< 0.1	Phytol	< 0.1
α -Gurjunene	< 0.1	Isopulegol	< 0.1
d-Limonene	< 0.1	Terpinene	< 0.1
Nerolidol	< 0.1	Geraniol	< 0.1
α -Pinene	< 0.1	Myrcene	< 0.1
Aristolene	< 0.1	γ -Terpinene	< 0.1
Eucalyptol	< 0.1	δ -3-Carene	< 0.1

Pesticides*:

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

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

** ND = Not Detected using a 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: Zosba-McKinney

Manager: Christopher Didomenico

COPY

01 OCT 2019