



Folium Biosciences

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: THC-Free Phytocannabinoid-Rich Soft Gel with Melatonin, 25 mg per soft gel

PRODUCT CODE: GCME-NO-25mg-BULK

LOT NUMBER: JP081718GC1 (Sales Order# DDWE-001-CT-I, Total of 11,000 soft gels)

BATCH NUMBER: GCMelCham18-02

DATE OF MANUFACTURE: 17Aug2018

Expiration date is 18 months under sealed conditions at room temperature.

ACTIVE INGREDIENTS: THC-Free Phytocannabinoid-Rich Hemp Oil, Melatonin

INACTIVE INGREDIENTS: Polysorbate Emulsifiers, Medium Chain Triglycerides (MCT Oil), Beta Caryophyllene, Chamomile. **Gelatin Shell:** Bovine-derived Gelatin, Glycerin, Sorbitol and Water.

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Oval soft gelatin capsule	Conforms	QCU002 or QAU005
Odor	Characteristic	Conforms	QCU002 or QAU005
Color	Green	Conforms	QCU002 or QAU005
Cannabinoid Content ¹	25 mg total Phytocannabinoids per Soft Gel, THC Not Detected	25 mg total Phytocannabinoids per Soft Gel, THC Not Detected	QCU001 or QAU005
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	USP<2021

¹The tolerance is 95-110% of label claim for release and 90-110% of label claim for shelf life.

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

Storage: Room Temperature, Do not freeze or expose to excessive heat.

Prepared by *Gabrielle O'Neal*

QC Release, Folium Biosciences

Reviewed by *Amanda Proud*
Senior Fulfillment Manager, Amanda Proud
Lab Director, Raj Gupta, Ph.D.

QC Release Supervisor, Folium Biosciences

CERTIFICATE OF INTERNAL ANALYSIS

BATCH No: GC/Mel/Cham18-02
TEST ID: 051418APO
TYPE: THC-free Phytocannabinoid-Rich (PCR) Soft Gel Bulk
DATE: 06Jun2018
Total Active PCR oil per Soft Gel: 25.73mg
Total Melatonin per Soft Gel: 1.00 mg

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	6.05	60.54
CBG	< 0.03	< 0.3
CBN	< 0.03	< 0.3
THC	ND**	ND**
CBC	< 0.03	< 0.3
THC-A	ND**	ND**
CBD-A	< 0.03	< 0.3
MAX THC	ND**	ND**
MAX CBD	6.05	60.54
TOTAL ACTIVE	6.05	60.54

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. (%)
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**	Paclbutrazol	ND**

*Batches are sent out regularly for testing, not all batches tested
 ** ND = Not Detected using a validated high-performance liquid chromatography test method, LOD = 0.03%

Batch Release:

Chemist: Ashley Orosco
Ashley Orosco 06Jun2018

Manager: Jennifer Berkbigler

Jennifer Berkbigler 06Jun2018

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Kim 07Jun2018