

Folium Biosciences

TEST ID: 030617KB
 BATCH No.: COI17-09
 TYPE: Cannabidiol Crystals

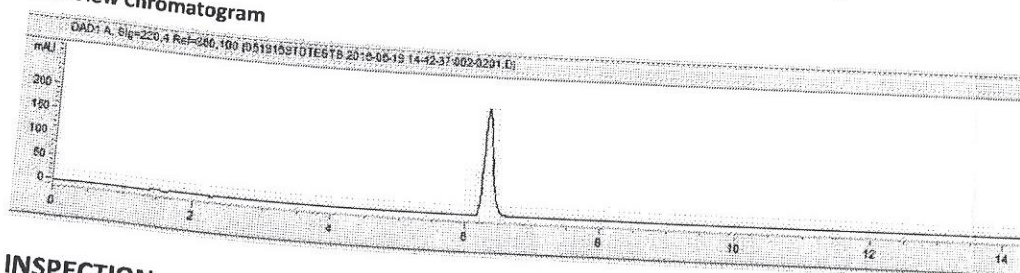
DATE: 3/6/2017

POTENCY RESULTS

| CBD | Wt. (%) | (mg/g) |
|-----|---------|--------|
| | 99 | 990 |

Weight % determined by HPLC Peak Purity

Full-View Chromatogram



INSPECTION

| *APPEARANCE: | SPECIFICATION | RESULTS | METHOD |
|--------------|--------------------------|----------|-----------|
| **ODOR: | Amorphous powder | Conforms | Visual |
| COLOR: | Characteristic | Conforms | Olfactory |
| | Off-white to pale yellow | Conforms | Visual |

*In extremely rare instances, black particles in powder may be present due to activated charcoal.
 **Characteristic smell is due to high temperature fractional distillation process, this is a solvent free product.

LAB INFORMATION
 Folium Biosciences
 828 Wooten Road
 Colorado Springs, CO 80915

Raj Gupta, Ph.D., Lab Director
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www.foliumbiosciences.com

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RESIDUAL SOLVENTS RESULTS

| | | | |
|-----------|--------------|-------------|--------------|
| Propane | Not Detected | Pentane | Not Detected |
| Isobutane | Not Detected | Isopropanol | Not Detected |
| Butane | Not Detected | Hexane | Not Detected |
| Ethanol | Not Detected | Acetone | Not Detected |

PESTICIDES RESULTS

| | | | |
|--------------|--------------|---------------|--------------|
| Acequinocyl | Not Detected | Spinosad | Not Detected |
| Pyrethrium | Not Detected | Spirotetramat | Not Detected |
| Spiromesifen | Not Detected | Bifenazate | Not Detected |
| Abamectin | Not Detected | Fenoxycarb | Not Detected |
| Imidacloprid | Not Detected | Paclobutrazol | Not Detected |

HEAVY METALS

| | |
|---------|--------------|
| Cadmium | Not Detected |
| Lead | Not Detected |
| Arsenic | Not Detected |
| Mercury | Not Detected |

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www.foliumbiosciences.com

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich Soft Gel, 25 mg per soft gel

FULFILLMENT LOT NUMBER: MRV052617GC26 (Sales Order# SIBE-002-DB-A, total of 3,000 gel caps.)

BATCH NUMBER: M11541

DATE OF MANUFACTURE: 05/26/2017

Expiration date is 18 months from the date of manufacture

INGREDIENTS: Gelatin, Polysorbate Emulsifiers, Medium Chain Triglycerides, Glycerin, THC-Free Phytocannabinoid Rich Hemp Oil, Beta Caryophyllene, Water

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|--|--|-------------|
| Appearance | Oval soft gelatin capsule | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Amber | Conforms | Visual |
| Cannabinoid Content | 25 - 26.25 mg CBD per soft gel THC Not Detected | 25 mg CBD per soft gel THC Not Detected | HPLC |
| 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 |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.



Folium Biosciences

BioSol Liquid PCR Water Soluble Hemp Oil

SPECIFICATION

Release Date: 11-15-2016
Product Code: WSL
Description: Amber Liquid
Storage: Room temperature, away from light and oxygen

| <u>ITEMS</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|---------------|-----------------------|--------------------|
| CBD: | NLT 80 mg/g | HPLC |
| THC: | NMT 0 mg/g | HPLC |
| Heavy Metals: | NMT 10 ppm | USP |
| Lead: | NMT 0.2 ppm | USP |
| Arsenic: | NMT 2.0 ppm | USP |

| <u>MICROBIOLOGY</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|---------------------|-----------------------|--------------------|
| Total Plate Count: | NMT 1,000 cfu/g | USP |
| Total Yeast & Mold: | NMT 100 cfu/g | USP |
| E. Coli: | Negative | USP |
| Salmonella: | Negative | USP |

Ingredients: PCR hemp oil extract, polysorbate 80, polysorbate 20, and water.



Folium Biosciences

PCR Water Soluble Hemp Softgel

SPECIFICATION

Release Date: 11-15-2016
Product Code: WSL-SG
Description: Amber Softgel
Storage: Room temperature, away from light and oxygen

| <u>ITEMS</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|---------------|-----------------------|--------------------|
| CBD: | NLT 25 mg/softgel | HPLC |
| THC: | NMT 0 mg/g | HPLC |
| Heavy Metals: | NMT 10 ppm | USP |
| Lead: | NMT 0.2 ppm | USP |
| Arsenic: | NMT 2.0 ppm | USP |

| <u>MICROBIOLOGY</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|---------------------|-----------------------|--------------------|
| Total Plate Count: | NMT 1,000 cfu/g | USP |
| Total Yeast & Mold: | NMT 100 cfu/g | USP |
| E. Coli: | Negative | USP |
| Salmonella: | Negative | USP |

Ingredients: PCR hemp oil extract, polysorbate 80, polysorbate 20, limonene and beta-caryophyllene.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: THC-Free Phytocannabinoid Rich Hemp Oil

FULFILLMENT LOT NUMBER: MRV062117B3 (Sales Order#SIBE-002-DB-F, 100 g cannabinoids, Total of 131 g Oil)

OIL BATCH NUMBER: COML17-06

DATE OF MANUFACTURE: 6/21/2017

Expiration date is 24 months under sealed conditions.

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|--|--|-------------|
| Appearance | Viscous Amber Oil Possible Crystal Formation | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Dark Amber | Conforms | Visual |
| Cannabinoid Content | 70-90% total cannabinoids THC Not Detected | 78.4% total cannabinoids THC Not Detected | HPLC |
| 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 |

When sampling this oil, the oil MUST first be heated and liquefied at 70C and mixed thoroughly. Only then, the oil should be sampled for testing or manufacturing. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by, Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich Water Soluble Powder

FULFILLMENT LOT NUMBER: MRV062117WSP2 (Sales Order#SIBE-002-SH-H, 30 g cannabinoids, total of 142 g Water Soluble Powder)

OIL BATCH NUMBER: COWSP17-12

DATE OF MANUFACTURE: 6/21/2017

Expiration date is 18 months under sealed conditions.

INGREDIENTS: Dextrin, Acacia Gum, Phytocannabinoid Rich Hemp Extract, Sunflower Lecithin, Vitamin E, Emulsifiers

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|--|-------------------------------|-------------|
| Appearance | Amorphous powder | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Pale yellow to beige | Conforms | Visual |
| Cannabinoid Content | 20-22% CBD THC not Detected | 21.1% CBD THC not Detected | HPLC |
| 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 |

Recommended Use: Dissolve powder into water at 60C. Maximum recommended dosage is 100mg/fl oz for liquid formulations. For solid applications, there is no dosing limit. Keep at room temperature to preserve freshness. Store away from humidity, heat, and light.

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Cannabidiol Shatter - Pineapple Express

FULFILLMENT LOT NUMBER: MRV062117STR2 (Sales Order#SIBE-002-DB-B, 20 g Shatter)

BATCH NUMBER: COI17-33

DATE OF MANUFACTURE: 6/21/2017

Expiration date is 18 months under sealed conditions.

| Attributes | Acceptance Criteria | Results | Specifications |
|---------------------|---------------------------------|-----------------------------|----------------|
| Appearance | Crystalline structure | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Clear to light Yellow | Conforms | Visual |
| Cannabinoid Content | 90-100% CBD THC Not Detected | 95% CBD THC Not Detected | HPLC |

| Package | Acceptance Criteria | Test Results |
|-------------------|--|--|
| Primary Package | Container dedusted and wiped clean Container caps screwed on tight | Container dedusted and wiped clean Container caps screwed on tight |
| Secondary Package | Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides | Carton sturdy and clean Sufficient cushion material exists Carton taped on all sides |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich MCT Vape - No Flavor

FULFILLMENT LOT NUMBER: AA000017T1 (Sales Order#SIBE-002-DB-D, 30 g Cannabinoids, Total of 100 g Vape)

BATCH LOT NUMBER: COTO17-15

DATE OF MANUFACTURE*: 6/21/2017

Expiration date is 18 months under sealed conditions.

INGREDIENTS: PCR Hemp Oil, Coconut Oil

| Attributes | Acceptance Criteria | Results | Specifications |
|---------------------|---|--|----------------|
| Appearance | Thin Oil | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Light Amber | Conforms | Visual |
| Cannabinoid Content | 300 mg total cannabinoids per 1 ml < 0.3% THC | 300 mg total cannabinoids per 1ml < 0.3% THC | HPLC |

| Package | Acceptance Criteria | Test Results |
|-------------------|--|--|
| Primary Package | Container dedusted and wiped clean Container caps screwed on tight | Container dedusted and wiped clean Container caps screwed on tight |
| Secondary Package | Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides | Carton sturdy and clean Sufficient cushion material exists Carton taped on all sides |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich MCT Vape - Citrus

FULFILLMENT LOT NUMBER: MRV062117V2 (Sales Order#SIBE-002-DB-E, 30 g Cannabinoids, Total of 100 g Vape)

BATCH LOT NUMBER: COTO17-15

DATE OF MANUFACTURE*: 6/21/2017

Expiration date is 18 months under sealed conditions.

INGREDIENTS: PCR Hemp Oil, Coconut Oil, Lemon Oil, Orange Oil

| Attributes | Acceptance Criteria | Results | Specifications |
|---------------------|---|--|----------------|
| Appearance | Thin Oil | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Light Amber | Conforms | Visual |
| Cannabinoid Content | 300 mg total cannabinoids per 1 ml < 0.3% THC | 300 mg total cannabinoids per 1ml < 0.3% THC | HPLC |

| Package | Acceptance Criteria | Test Results |
|-------------------|--|--|
| Primary Package | Container dedusted and wiped clean Container caps screwed on tight | Container dedusted and wiped clean Container caps screwed on tight |
| Secondary Package | Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides | Carton sturdy and clean Sufficient cushion material exists Carton taped on all sides |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF INTERNAL ANALYSIS

PRODUCT NAME: Cannabidiol Shatter - Grand Daddy Purple

FULFILLMENT LOT NUMBER: AG091117STR1 (Sales Order#SIBE-002-DB-C, 20 g Shatter)

BATCH NUMBER: COI17-45

DATE OF MANUFACTURE: 09/11/2017

Expiration date is 18 months under sealed conditions.

INGREDIENTS: CBD Isolate, Grand Daddy Purple Terpenes

| Attributes | Acceptance Criteria | Results | Specifications |
|---------------------|-----------------------------------|-------------------------------|----------------|
| Appearance | Crystalline structure | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Clear to light Yellow | Conforms | Visual |
| Cannabinoid Content | 90-100% CBD (THC Not Detected) | 95% CBD (THC Not Detected) | HPLC |

| Package | Acceptance Criteria | Test Results |
|-------------------|--|--|
| Primary Package | Container dedusted and wiped clean Container caps screwed on tight | Container dedusted and wiped clean Container caps screwed on tight |
| Secondary Package | Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides | Carton sturdy and clean Sufficient cushion material exists Carton taped on all sides |

Electronic Signatures

Prepared by Anthony M. Green, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich Soft Gel, 25 mg per soft gel

FULFILLMENT LOT NUMBER: MRV052617GC26 (Sales Order# SIBE-002-DB-A, total of 3,000 gel caps.)

BATCH NUMBER: M11541

DATE OF MANUFACTURE: 05/26/2017

Expiration date is 18 months from the date of manufacture

INGREDIENTS: Gelatin, Polysorbate Emulsifiers, Medium Chain Triglycerides, Glycerin, THC-Free Phytocannabinoid Rich Hemp Oil, Beta Caryophyllene, Water

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|--|--|-------------|
| Appearance | Oval soft gelatin capsule | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Amber | Conforms | Visual |
| Cannabinoid Content | 25 - 26.25 mg CBD per soft gel THC Not Detected | 25 mg CBD per soft gel THC Not Detected | HPLC |
| 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 |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.



Folium Biosciences

BioSol Powder PCR Water Soluble Hemp Powder

SPECIFICATION

Release Date: 11-15-2016
Product Code: WSP
Description: Beige Amorphous Powder
Storage: Room temperature, away from light and oxygen

| <u>COMPOUND</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|-----------------|-----------------------|--------------------|
| CBD: | NLT 200 mg/g | HPLC |
| THC: | NMT 0 mg/g | HPLC |
| Heavy Metals: | NMT 10 ppm | USP<232> |
| Lead: | NMT 0.2 ppm | USP<232> |
| Arsenic: | NMT 2.0 ppm | USP<232> |

| <u>MICROBIOLOGY</u> | <u>SPECIFICATIONS</u> | <u>TEST METHOD</u> |
|---------------------|-----------------------|--------------------|
| Total Plate Count: | NMT 1,000 cfu/g | USP<61> |
| Total Yeast & Mold: | NMT 100 cfu/g | USP<61> |
| E. Coli: | Negative | USP<62> |
| Salmonella: | Negative | USP<62> |

Ingredients: CBD isolate, Dextrin, an antioxidant Gum Acacia, Potassium Bicarbonate, and Citric Acid.

Instructions for use: Dissolve powder into water at 60C. Maximum recommended dosage is 100mg / fl oz for liquid formulations. For solid applications, there is no dosing limit.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Phytocannabinoid Rich Gummies, 10 mg per gummy

FULFILLMENT LOT NUMBER: MRV060217GU6 (Sales Order# SIBE-002-DB-I, Total of 3,000 gummies)

OIL BATCH NUMBER: COGU17-01

DATE OF MANUFACTURE: 6/2/2017

Expiration date is 12 months from the date of manufacture

INGREDIENTS: Sugar, Gelatin, Citric Acid, Natural Flavoring, Natural Coloring, Coconut Oil, Phytocannabinoid Rich Hemp Extract

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|--|--|-------------|
| Appearance | Bear Shaped Gummies | Conforms | Visual |
| Odor | Characteristic | Conforms | Olfactory |
| Color | Multi-color | Conforms | Visual |
| Cannabinoid Content | 10-10.5 mg total cannabinoids per gummy bear THC Not Detected | 10-10.5 mg total cannabinoids per gummy bear THC Not Detected | HPLC |

| 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 |

Electronic Signatures

Prepared by Mario Rodriguez-Vega, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Cannabidiol Isolate

FULFILLMENT LOT NUMBER: PY07201714 (Sales Order# SIBE-002-DB-G, 500 g Isolate)

BATCH LOT NUMBER: COI17-42

DATE OF MANUFACTURE: 07/20/2017

Expiration date is 12 months from the date of manufacture

| Attributes | Acceptance Criteria | Results | Test Method |
|---------------------|------------------------------------|-------------------------------|-------------|
| Appearance | Amorphous Powder | Conforms | Visual |
| Odor | Characteristic* | Conforms | Olfactory |
| Color | White to Pale Yellow | Conforms | Visual |
| Cannabinoid Content | 99.5-99.9% CBD THC not Detected | 99.9% CBD THC not Detected | HPLC |

| Package | Acceptance Criteria | Results |
|-------------------|--|--|
| Primary Package | Container dedusted and wiped clean Container caps screwed on tight | Container dedusted and wiped clean Container caps screwed on tight |
| Secondary Package | Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides | Carton sturdy and clean Sufficient cushion material exists Carton taped on all sides |

*Characteristic smell is due to high temperature distillation process, this is a solvent free product.

Electronic Signatures

Prepared by Patrick Young, Technical Operations, Folium Biosciences

Reviewed by Amanda Proud, Fulfillment Manager, Folium Biosciences

Lab Director, Raj Gupta, Ph.D.