

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels with Curcumin
PRODUCT STRENGTH: 25 mg CBD / 10 mg Curcumin
FILL LOT NUMBER: 20238A
BEST BY DATE: 08/26/2021
SOFTGEL LOT NUMBER: [GC32520-02](#)

Click on the links to view third-party reports

Physical Attributes

| Test | Method | Specification | Results |
|-------------------------|---------|--|---------|
| Color | SOP-100 | Bright Red to Pink | PASS |
| Odor | SOP-100 | N/A | PASS |
| Appearance | SOP-100 | Dry, ovoid softgel capsules in container with lid and shrinkband | PASS |
| Primary Package Eval. | SOP-132 | Container clean and free of filth. Container caps tight and shrink band intact | PASS |
| Secondary Package Eval. | SOP-132 | Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure. | PASS |

Review of Third-Party Analysis

| Panel | Method | Specification | Results | Pass/Fail |
|---------------------------------------|---------|---|-------------------------|-----------|
| Potency - Total CBD | SOP-111 | 23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%) | 28.5 mg | PASS |
| Potency - D9-THC | SOP-111 | None Detected LOQ: 10 PPM (0.001%) | ND | PASS |
| Compliant Pesticide Panel | SOP-111 | WIP-100008 : Product specification for Tinctures, Oregon Action limits apply | ND | PASS |
| Microbial - Stec E.Coli | SOP-111 | Complies with USP 61/62 | ≥LOD | PASS |
| Microbial - Salmonella | SOP-111 | Complies with USP 61/62 | ≥LOD | PASS |
| Microbial - | SOP-111 | Complies with USP 61/62 | ≥LOD | PASS |
| CA Compliant Heavy Metal Panel | SOP-111 | Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM | ND | PASS |

* Level of Quantitation, † Parts Per Million

Quality Certified by: *Kei Horikawa* 09/01/2020
 Kei Horikawa _____
 Quality Control Manager Date

OKM53
certificate ID

SG25C 20238A

7USC1639 Certificate of Analysis

Lot# 20238A



total
cannabinoids
29.1mg

per
capsule

THC‡ ND
CBD‡ 28.5mg

This Product Has
Been Tested and
Complies with
7USC1639o(1)

Stillwater
Laboratories



| Potency | MSP-7.5.1.4 | per capsule | LOD | LOQ | error (95%CI k=2) | Terpenes | MSP-7.5.1.6 | result |
|------------------------------------|-------------|-------------|------|------|-------------------|----------|-------------|--------------|
| total cannabinoids | | 29.1mg | 0.33 | 0.98 | ±1.22mg | | | NOT REQUIRED |
| total THC | | ND | 0.33 | 0.98 | ±0.98mg | | | |
| total CBD | | 28.5mg | 0.33 | 0.98 | ±1.21mg | | | |
| tetrahydrocannabinolic acid (THCa) | | ND | 0.33 | 1.00 | ±1.00mg | | | |
| Δ9-tetrahydrocannabinol (Δ9 THC) | | ND | 0.31 | 0.94 | ±0.94mg | | | |
| Δ8-tetrahydrocannabinol (Δ8 THC) | | ND | 0.42 | 1.26 | ±1.26mg | | | |
| tetrahydrocannabivarin (THCv) | | ND | 0.35 | 1.05 | ±1.05mg | | | |
| cannabidiolic acid (CBDA) | | ND | 0.29 | 0.87 | ±0.87mg | | | |
| cannabidiol (CBD) | | 28.5mg | 0.33 | 0.99 | ±1.22mg | | | |
| cannabivarin (CBDv) | | ND | 0.33 | 0.99 | ±0.99mg | | | |
| cannabigerolic acid (CBGa) | | ND | 0.29 | 0.88 | ±0.88mg | | | |
| cannabigerol (CBG) | | <LOQ | 0.36 | 1.07 | ±1.08mg | | | |
| cannabinol (CBN) | | ND | 0.18 | 0.54 | ±0.54mg | | | |
| cannabichromene (CBC) | | ND | 0.33 | 0.98 | ±0.98mg | | | |

| Solvents | MSP-7.5.1.7 | result | limit | LOD | LOQ | error | pass/fail | Pesticides | MSP-7.5.1.8 | result | limit | LOD | LOQ | error | pass/fail |
|----------|-------------|--------|-------|-----|-----|-------|-----------|------------|-------------|--------|-------|-----|-----|-------|-----------|
|----------|-------------|--------|-------|-----|-----|-------|-----------|------------|-------------|--------|-------|-----|-----|-------|-----------|

| | | | | | | | | | | | | | | | |
|--------------------|----|--------|-----|-----|----------|------|--|--------------|----|---------|-------|-------|------------|------|--|
| NOT REQUIRED | | | | | | | | | | | | | | | |
| Ochratoxin A | ND | 20 ppb | 0.4 | 1.3 | ±1.3 ppb | PASS | | Chlorpyrifos | ND | 0.0 ppm | 0.041 | 0.124 | ±0.124 ppm | PASS | |
| Aflatoxin B1B2G1G2 | ND | 20 ppb | 0.4 | 1.3 | ±1.3 ppb | PASS | | Clofentezine | ND | 0.5 ppm | 0.008 | 0.023 | ±0.023 ppm | PASS | |
| NOT REQUIRED | | | | | | | | Coumaphos | ND | 0.0 ppm | 0.005 | 0.016 | ±0.016 ppm | PASS | |

| Microbial | MSP-7.5.1.10 | result | limit | LOD | LOQ | error | pass/fail |
|-----------|--------------|----------|-------|------|-----------|-------|-----------|
| Arsenic | ND | 1500 ppb | 2.6 | 7.8 | ±7.8 ppb | PASS | |
| Cadmium | ND | 500 ppb | 2.8 | 8.4 | ±8.4 ppb | PASS | |
| Lead | ND | 500 ppb | 4.4 | 13.1 | ±13.1 ppb | PASS | |
| Mercury | ND | 300 ppb | 2.2 | 6.6 | ±6.6 ppb | PASS | |

| Metals | MSP-7.5.1.11 | result | limit | LOD | LOQ | error | pass/fail |
|---------|--------------|----------|-------|------|-----------|-------|-----------|
| Arsenic | ND | 1500 ppb | 2.6 | 7.8 | ±7.8 ppb | PASS | |
| Cadmium | ND | 500 ppb | 2.8 | 8.4 | ±8.4 ppb | PASS | |
| Lead | ND | 500 ppb | 4.4 | 13.1 | ±13.1 ppb | PASS | |
| Mercury | ND | 300 ppb | 2.2 | 6.6 | ±6.6 ppb | PASS | |

| Pesticides | MSP-7.5.1.8 | result | limit | LOD | LOQ | error | pass/fail |
|---------------------|-------------|----------|-------|-------|--------|-------|-----------|
| Abamectin | ND | 0.3 ppm | 0.007 | 0.022 | ±0.022 | PASS | |
| Acephate | ND | 5.0 ppm | 0.008 | 0.023 | ±0.023 | PASS | |
| Acequinocyl | ND | 4.0 ppm | 0.006 | 0.019 | ±0.019 | PASS | |
| Acetamiprid | ND | 5.0 ppm | 0.005 | 0.015 | ±0.015 | PASS | |
| Aldicarb | ND | 0.0 ppm | 0.002 | 0.006 | ±0.006 | PASS | |
| Azoxystrobin | ND | 40.0 ppm | 0.002 | 0.006 | ±0.006 | PASS | |
| Bifenazate | ND | 5.0 ppm | 0.002 | 0.005 | ±0.005 | PASS | |
| Bifenthrin | ND | 0.5 ppm | 0.001 | 0.003 | ±0.003 | PASS | |
| Boscalid | ND | 10.0 ppm | 0.021 | 0.062 | ±0.062 | PASS | |
| Carbaryl | ND | 0.5 ppm | 0.008 | 0.025 | ±0.025 | PASS | |
| Carbofuran | ND | 0.0 ppm | 0.002 | 0.005 | ±0.005 | PASS | |
| Chloanthraniliprole | ND | 40.0 ppm | 0.020 | 0.059 | ±0.059 | PASS | |
| Chlorfenapyr | ND | 0.0 ppm | 0.005 | 0.016 | ±0.016 | PASS | |

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

* All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution} / m_{dry}.
 Terpene concentration is calculated: [terpene] = (terpene mass)_{GCMS} / m_{dry}.
 Decarboxylated cannabinoid concentration is calculated XXX_{total} = 0.877 x XXX_a + XXX_b. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s_y² = Σ(dI/dy)²s_e² where I is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL95} x s_y. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

Certified by:

Justin M Johnston

Justin M Johnston
Deputy Director

Stillwater Laboratories Inc.
MT License L0001, L0007
6073 US93N Suite 5
Olney MT 59927
406-881-2019



Printed
10/19/2020 4:52 PM

https://portal.a2la.org/scopepdf/4961-01.pdf

CONFIDENTIAL EXTRACTOR

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Soft Gels Curcumin, 25mg CBD/10mg Curcumin

PRODUCT CODE: GCC3-X-Y-A

LOT NUMBER: GC/C32520-02

DATE OF MANUFACTURE: 26FEB2020 **EXPIRATION DATE:** 26AUG2021

(DDMMYYYY)

(Expiration date is 18 months
under sealed conditions.)

INGREDIENTS:

Composition of Fill: Polysorbate 80, Polysorbate 20, Fractionated Coconut Oil, Broad Spectrum CBD Hemp Oil, β -Caryophyllene, Curcuminoids

Composition of the Shell: Bovine-derived Gelatin, Glycerin, Water

| Parameter | Method ¹ | Specification | Results |
|--|---------------------|---|--|
| Appearance | QCU002 | Oval soft gelatin capsule | Pass |
| Color | | Dark Red | Pass |
| Cannabinoids | | LOQ (ppm) | Wt. (%) |
| CBD | | 20 | 4.379 |
| CBD-A | | 20 | < LOQ |
| Δ 9-THC | | 5 | < LOQ |
| THC-A | | 5 | < LOQ |
| CBN | | 5 | < LOQ |
| CBN-A | | 5 | < LOQ |
| CBG | QCU001 | 5 | 0.067 |
| CBC | (UHPLC-DAD) | 5 | < LOQ |
| CBC-A | | 5 | < LOQ |
| Δ 8-THC | | 5 | < LOQ |
| CBDV | | 5 | < LOQ |
| CBDV-A | | 5 | < LOQ |
| THCV | | 5 | < LOQ |
| Potency – Total CBD | | 90 – 110% of Labelled Claim for CBD | 26.8 mg CBD/softgel 107% of Labelled Claim |
| Total THC | | 0.0% | 0.0% |
| Identity – CBD | | Retention Time \pm 0.05min of Standard | -0.02 min |
| Curcumin Content | HPLC-DAD | 80 – 120% of Labelled Claim for Curcumin | 8 mg Curcumin/softgel 82% of Labelled Claim |
| Terpenes² | GC/FID & LC/MS | Refer to Oil Specification | Refer to Oil Specification |
| Pesticides² | LC/MS & GC/MS | Refer to Oil Specification | Refer to Oil Specification |
| Residual Solvents² | USP <467> | Refer to Oil Specification | Refer to Oil Specification |
| Elemental Impurities:² | USP <2232> | Refer to Oil Specification | Refer to Oil Specification |
| Microbial Limits:² | USP<2032> | Refer to Oil Specification | Refer to Oil Specification |

Notes: ¹according to Foliu Biosciences internal analytical methods, US Pharmacopeia or 3rd party contract laboratory method. ²Testing performed on bulk oil. NID=Not Detected, LOQ=Limit of Quantification, LOD=Limit of Detection

PLEASE NOTE: Curcumin is naturally bright yellow in color and tends to stain anything it comes into contact with. Any discoloration of the packaging, container or skin that the curcumin product touches is natural and expected. The yellow coloration is not a reflection of the product quality or indicative of any defect.

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

COPY

CONFIDENTIAL EXTRACTOR

*The above certificate of analysis is based on Product Specification (QA-FRM3-0005 GCC3-X-Y-A)
Revision No. 01*

Results conform to all specifications: Yes or No

Storage: Room Temperature, Protect from Light and Protect from Moisture at less than 50% relative humidity (RH)

Allergen Declaration: This product contains sulfites

Prepared by: John B... Date: 16 Mar 2020
Quality Control, Folium Biosciences

Reviewed by: CLF Date: 16 MAR 2020
Quality Control, Folium Biosciences

COPY



ACCU Bio-Chem
LABORATORIES

1755 Victory Blvd. Glendale, CA 91201
Tel: 818.547.3221 Email: acculab@accubclabs.com
www.accubclabs.com

To:

| | |
|-----------------------------|---------------|
| COA No.: | M-JO082720-01 |
| COA Date: | 09/01/20 |
| Sample Rec'd Date: | 08/27/20 |
| ISO/IEC 17025:2017 Standard | Page 1 of 1 |

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: *Softgel Capsule 25 mg (Curcumin)*
 Sample Batch/Lot No.: 20238A
 ACCU Laboratory Ref.: 0795108
 Purchase Order No.: N/A
 Test Method: USP
 Notes: N/A

Analysis:

Results:

| | |
|--|-------------|
| Total Plate Count: | <10 CFU / g |
| Yeast & Mold Count: | <10 CFU / g |
| Bile-Tolerant g- Bacteria (coliforms): | Negative |
| <i>Escherichia coli</i> : | Negative |
| <i>Salmonella</i> : | Negative |

Approved By: _____

Vano Baghdasarian, Laboratory Director

The results of this test relate only to the samples tested. This test report shall not be reproduced except in full, without written approval of the lab. ACCU Labs shall have no liability to anyone with respect to any interpretations or uses of the COA report, decisions made, or actions taken as a result of or based on the data reported.
 Abbreviations: g -: gram negative; g +B: gram positive Bacilli; g +C: gram positive Cocci; TPC: Total Plate Count; TNTC: Too Numerous to Count

Document Information

| | | |
|--|--------------------------|---------------------------------------|
| File Name and Version: LF-510-01 Certificate of Analysis – V. Micro v.03 | Effective Date: 05/01/20 | Status: Approved by Vano Baghdasarian |
|--|--------------------------|---------------------------------------|