

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels with Curcumin
PRODUCT STRENGTH: 25 mg CBD / 10 mg Curcumin
FILL LOT NUMBER: 20268A
BEST BY DATE: 03/03/2022
SOFTGEL LOT NUMBER: [GC32520-04](#)

[*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%)	25.7 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 - Yeast/Mold	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

10/05/2020

Kei Horikawa
Quality Control Manager

Date

SG25C - Curcumin

Certificate of Analysis



total cannabinoids	Δ9-THC	THCa	total THC
26 mg	0.000 mg	0.000 mg	0.000 mg
per capsule	CBD	CBDa	total CBD
	25.7 mg	0.000 mg	25.7 mg

Lot GC/C32520-04

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



Stillwater
Laboratories

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

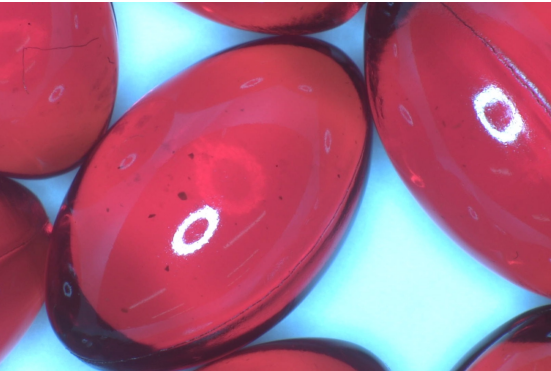
Sample Handling

test ID	sample wt	17.7 g
type capsule	order	8420
lab ID 0JQ58	sample date	9/22/2020
unit capsule	unit weight	0.6 g

Methods

method	equipment
weights	MSP-7.3.1.3 AUX120.1
potency	MSP-7.5.1.5 LC-2030
terpenes	MSP-7.5.1.7 QP2020/HS20
pesticides	MSP-7.5.1.8 LC-8060
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.1 AriaMx RTPCR
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

capsule



Potency	per capsule	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0% 0.000 mg	± 0.01 mg	terpenes not tested / not required						
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0% 0.000 mg	± 0.01 mg							
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0% 0.000 mg	± 0.01 mg							
tetrahydrocannabivarin (THCv)	0% 0.000 mg	± 0.01 mg							
cannabidiolic acid (CBDA)	0% 0.000 mg	± 0.01 mg							
cannabidiol (CBD)	4.45% 25.7 mg	± 0.13 mg							
cannabidivarin (CBDv)	0% 0.000 mg	± 0.01 mg							
cannabigerolic acid (CBGA)	0% 0.000 mg	± 0.01 mg							
cannabigerol (CBG)	0% 0.000 mg	± 0.01 mg							
cannabinol (CBN)	0% 0.000 mg	± 0.01 mg							
cannabichromene (CBC)	0% 0.000 mg	± 0.01 mg							

Solvents	MT limit	0JQ58	LOQ	Pesticides (MT)	MT limit	0JQ58	LOQ	Pesticides (other)	0JQ58	LOQ
				abamectin		0.00 ppm	<10ppb	acephate	0.00 ppm	<10ppb
				acequinocyl		0.00 ppm	<10ppb	acetamiprid	0.00 ppm	<10ppb
				bifenazate		0.00 ppm	<10ppb	aldicarb	0.00 ppm	<10ppb
				bifenthrin		0.00 ppm	<10ppb	azoxystrobin	0.00 ppm	<10ppb
				chlormequat cl.		0.00 ppm	<10ppb	boscalid	0.00 ppm	<10ppb
				cyfluthrin		0.00 ppm	<80ppb	carbaryl	0.00 ppm	<10ppb
				diaminozide		0.00 ppm	<10ppb	carbofuran	0.00 ppm	<10ppb
				etoxazole		0.00 ppm	<10ppb	chloantraniliprole	0.00 ppm	<10ppb
				fenoxycarb		0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
				imazalil		0.00 ppm	<10ppb	clofentezine	0.00 ppm	<10ppb
				imidacloprid		0.00 ppm	<10ppb	cypermethrin	0.00 ppm	<10ppb
				myclobutanil		0.00 ppm	<10ppb	diazinon	0.00 ppm	<10ppb
				paclobutrazol		0.00 ppm	<10ppb	dichlorvos	0.00 ppm	<10ppb
				pyrethrins		0.00 ppm	<10ppb	dimethoate	0.00 ppm	<10ppb
				spinosad		0.00 ppm	<10ppb	etofenprox	0.00 ppm	<10ppb
				spiromesifen		0.00 ppm	<10ppb	fenpyroximate	0.00 ppm	<10ppb
				spirotetramat		0.00 ppm	<10ppb	fipronil	0.00 ppm	<10ppb
				trifloxystrobin		0.00 ppm	<10ppb	flonicamid	0.00 ppm	<10ppb

Toxic Metals	MT limit	0JQ58	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Microbial	MT limit	0JQ58	LOQ
microbial not tested			

Comments

Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stlwlabs.com

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_g² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

CONFIDENTIAL EXTRACTOR

CERTIFICATE OF ANALYSIS

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

PRODUCT CODE: GCC3-X-Y-A

LOT NUMBER: GC/C32520-04

DATE OF MANUFACTURE: 03SEP2020

EXPIRATION DATE: 03MAR2022

(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 (mg/g)	Wt. (%) (mg/g)
CBD		0.018	N/A 66.08
CBD-A		0.0027	N/A ND
Δ^9 -THC		0.0115	N/A ND
THC-A		0.006	N/A ND
CBN		0.0041	N/A ND
CBG		0.0143	N/A ND
CBC	HPLC-SOP 101	0.0027	N/A ND
Δ^8 -THC	(CannaSafe)	0.0115	N/A ND
CBDV		0.0126	N/A 1.56
THCV		0.0111	N/A ND
Potency – Total CBD		NLT 95% of Labelled Claim for CBD	28.1 mg CBD/softgel 113% of Labelled Claim
Total THC		0.0%	0.0%
Identity – CBD		Retention Time $\pm$ 0.05min of Standard	0.00 min
Curcumin Content	HPLC-DAD	80 – 120% of Labelled Claim for Curcumin	9.4 mg Curcumin/softgel 94% 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 Impurities²	USP <2232>	Refer to Oil Specification	Refer to Oil Specification
Microbial Limits²	USP <2032>	Refer to Oil Specification	Refer to Oil Specification

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

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.

The above certificate of analysis is based on Product Specification (QA-FRM3-0005 GCC3-X-Y-A)

Revision No. 01

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

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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: Blake Breitmeyer
Quality Control, Folium Biosciences

Date: 15 Sep 2020

Reviewed by: Christopher Didomenico
Quality Control, Folium Biosciences

Date: 15 SEP 2020



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To:

COA No.:	M-JO092820-01
COA Date:	10/05/20
Sample Rec'd Date:	09/28/20
ISO/IEC 17025:2017 Standard	Page 1 of 1

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: *Softgel Capsule 25mg*
Sample Batch/Lot No.: 20268A
ACCU Laboratory Ref.: 0807276
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
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