

# 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
<b>Potency - Total CBD</b>	SOP-111	23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	<a href="#">25.7 mg</a>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<a href="#">ND</a>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<a href="#">ND</a>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<a href="#">≥LOD</a>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<a href="#">≥LOD</a>	PASS
<b>Microbial - Yeast/Mold</b>	SOP-111	Complies with USP 61/62	<a href="#">≥LOD</a>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<a href="#">ND</a>	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	$\Delta^9$ -THC	THCa	total THC
<b>26 mg</b>	0.000 mg	0.000 mg	0.000 mg
per	CBD	CBDa	total CBD
<b>capsule</b>	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>

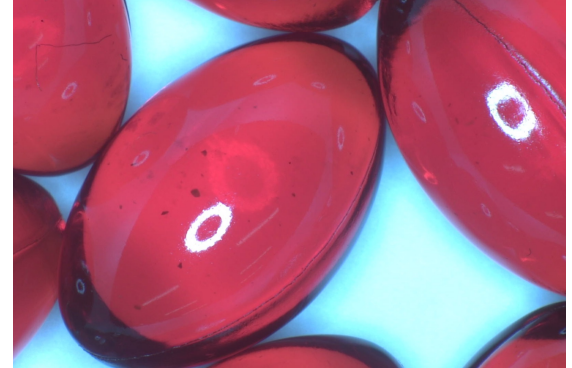
## Sample Handling

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

## 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						
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0% 0.000 mg	± 0.01 mg							
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ 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	chlorantraniliprole	0.00 ppm	<10ppb
				fenoxycarb		0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
				imazalil		0.00 ppm	<10ppb	clofentazine	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	<b>0.0 ppm</b>	<10ppb
cadmium	4.1 ppm	<b>0.0 ppm</b>	<10ppb
lead	1.2 ppm	<b>0.0 ppm</b>	<10ppb
mercury	0.4 ppm	<b>0.0 ppm</b>	<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

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + 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<sub>g</sub><sup>2</sup> = Σ (∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not

Certified by:

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

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,  $\beta$ -Caryophyllene, Curcuminoids

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

Parameter	Method <sup>1</sup>	Specification	Results
Appearance	QCU002	Oval soft gelatin capsule	Pass
Color		Dark Red	Pass
<b>Cannabinoids</b>		<b>LOQ (mg/g)</b>	<b>Wt. (%) (mg/g)</b>
CBD		0.018	N/A 66.08
CBD-A		0.0027	N/A ND
$\Delta$ 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 (CannaSafe)	0.0027	N/A ND
$\Delta$ 8-THC		0.0115	N/A ND
CBDV		0.0126	N/A 1.56
THCV		0.0111	N/A ND
<b>Potency – Total CBD</b>		NLT 95% of Labelled Claim for CBD	28.1 mg CBD/softgel 113% of Labelled Claim
<b>Total THC</b>		0.0%	0.0%
<b>Identity – CBD</b>		Retention Time $\pm$ 0.05min of Standard	0.00 min
<b>Curcumin Content</b>	HPLC-DAD	80 – 120% of Labelled Claim for Curcumin	9.4 mg Curcumin/softgel 94% of Labelled Claim
<b>Terpenes<sup>2</sup></b>	GC/FID & LC/MS	Refer to Oil Specification	Refer to Oil Specification
<b>Pesticides<sup>2</sup></b>	LC/MS & GC/MS	Refer to Oil Specification	Refer to Oil Specification
<b>Residual Solvents<sup>2</sup></b>	USP <467>	Refer to Oil Specification	Refer to Oil Specification
<b>Elemental Impurities:<sup>2</sup></b>	USP <2232>	Refer to Oil Specification	Refer to Oil Specification
<b>Microbial Limits:<sup>2</sup></b>	USP<2032>	Refer to Oil Specification	Refer to Oil Specification

Notes: <sup>1</sup>according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3<sup>rd</sup> party contract laboratory method. <sup>2</sup>Testing 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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**ACCU Bio-Chem**  
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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**

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