



# JOY ORGANICS

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics CBD Softgels with Curcumin  
**PRODUCT STRENGTH:** 25 mg CBD / 10 mg Curcumin  
**FILL LOT NUMBER:** 2009001  
**BEST BY DATE:** 09/30/2021  
**SOFTGEL LOT NUMBER\*:** C32519-07

*\*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 shrinkbands 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%)	<b>29.4mg</b>	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</b>	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<b>ND</b>	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	<b>&gt;LOD</b>	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	<b>&gt;LOD</b>	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	<b>&gt;LOD</b>	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	<b>ND</b>	PASS

\* \*Level of Quantitation, † Parts Per Million

Quality Certified by: Darcie Moran 04/30/2020  
 Darcie Moran Date  
 Manager of Quality Assurance



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To: **Joy Organics**  
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COA No.:	M-JO041520-03rt
COA Date:	04/20/20
Sample Rec'd Date:	04/06/20
ISO/IEC 17025:2005 Standard	Page 1 of 1

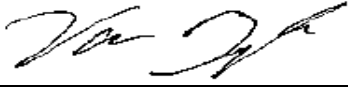
## MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

**Sample Description:** *Softgel 25 mg Curcumin*  
**Sample Batch/Lot No.:** *2009001*  
**ACCU Laboratory Ref.:** *0732673*  
**Purchase Order No.:** *N/A*  
**Test Method:** *USP*  
**Notes:** *Additional Sample Received on 03/15/20*

**Analysis:**

**Results:**

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

**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

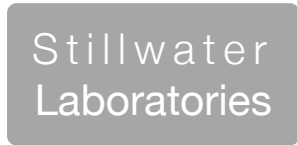
**Document Information**

<b>File Name and Version:</b> LF-510-01 Certificate of Analysis – V. Micro v.02	<b>Effective Date:</b> 07/25/19	<b>Status:</b> Approved by Vano Baghdasarian
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# Curcumin Softgel C32519-07



total cannabinoids	$\Delta^9$ -THC	THCa	total THC
<b>29.7 mg</b>	0 mg	0 mg	0 mg
per capsule	CBD	CBDa	total CBD
	29.4 mg	0 mg	29.4 mg



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

## Sample Handling

edible

test ID	sample wt	1.9 g
type	edible	order <b>6866</b>
lab ID	OCS30	sample date 3/20/2020
unit	capsule	unit weight <b>0.5 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-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.1	ICPMS2030



Potency	per capsule	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0 mg ± 0.01 mg	terpenes not tested / not required						
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0%	0 mg ± 0.01 mg							
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ THC)	0%	0 mg ± 0.01 mg							
tetrahydrocannabivarin (THCv)	0%	0 mg ± 0.01 mg							
cannabidiolic acid (CBDa)	0%	0 mg ± 0.01 mg							
cannabidiol (CBD)	5.88%	29.4 mg ± 0.13 mg							
cannabidivarin (CBDv)	0%	0 mg ± 0.01 mg							
cannabigerolic acid (CBGa)	0%	0 mg ± 0.01 mg							
cannabigerol (CBG)	.06%	.3 mg ± 0.02 mg							
cannabinol (CBN)	0%	0 mg ± 0.01 mg							
cannabichromene (CBC)	0%	0 mg ± 0.01 mg							

Solvents	MT limit	OCS30	LOQ	Pesticides (MT)	MT limit	OCS30	LOQ	Pesticides (other)	OCS30	LOQ
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solvents  
not tested / not required

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Toxic Metals	MT limit	OCS30	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	OCS30	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g

## Comments

• 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:

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