



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics CBD Softgels
PRODUCT STRENGTH: 25 mg
FILL LOT NUMBER: 2021201
SOFTGEL LOT NUMBER: GCND2520-03
BEST BY DATE: 1/30/2022

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	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	25-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	24 m	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 Softgels, Oregon Action limits apply	LOQ	PASS
Microbial - Total Plate Count	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Coliforms and bacteria (including ecoli and salmonella)	SOP-111	Complies with USP 61/62	BELOW 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	<LOQ	PASS

** Level of Quantitation, † Parts Per Million

Quality Certified by: Kei Horikawa 08.10.2020
 Kei Horikawa Date
 Manager of Quality Assurance



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To: **Joy Organics**
 5042 Technology Parkway, Suite 500
 Fort Collins, CO 80528

COA No.:	M-JO080320-01
COA Date:	08/10/20
Sample Rec'd Date:	08/03/20
ISO/IEC 17025:2017 Standard	Page 1 of 1

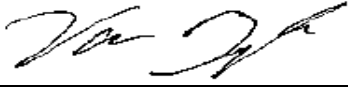
MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: *Softgel Capsule 25 mg*
Sample Batch/Lot No.: 2021201
ACCU Laboratory Ref.: 0784747
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
Escherichia coli:	Negative
Salmonella:	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

Softgel 25mg



total cannabinoids	Δ^9 -THC	THCa	total THC
25 mg	0 mg	0 mg	0 mg
per	CBD	CBDa	total CBD
capsule	24 mg	0 mg	24 mg



Stillwater Laboratories

Lot# GCND2520-03

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

Sample Handling

capsule

test ID	sample wt	16.1 g
type	capsule	order 7680
lab ID	0FW40	sample date 6/29/2020
unit	capsule	unit weight 0.7 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-7.5.1.9	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)	.03%	0 mg ± 0.02 mg	terpenes not tested / not required						
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	0%	0 mg ± 0.01 mg							
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0%	0 mg ± 0.01 mg							
tetrahydrocannabivarin (THCv)	0%	0 mg ± 0.01 mg							
cannabidiolic acid (CBDa)	.04%	0 mg ± 0.02 mg							
cannabidiol (CBD)	3.59%	24 mg ± 0.13 mg							
cannabidivarin (CBDv)	.04%	0 mg ± 0.02 mg							
cannabigerolic acid (CBGa)	0%	0 mg ± 0.01 mg							
cannabigerol (CBG)	0%	0 mg ± 0.01 mg							
cannabinol (CBN)	0%	0 mg ± 0.01 mg							
cannabichromene (CBC)	0%	0 mg ± 0.01 mg							

Solvents	MT limit	0FW40	LOQ	Pesticides (MT)	MT limit	0FW40	LOQ	Pesticides (other)	0FW40	LOQ
solvents not tested / not required				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
				chloromequat 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		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	
							fludioxonil	0.00 ppm	<10ppb	
							hexythiazox	0.00 ppm	<10ppb	
							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	

Toxic Metals	MT limit	0FW40	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

Comments

Microbial	MT limit	0FW40	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
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]_{HPLC} x volume_{dilution} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. Decarboxyated 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)² s_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

Certified by:

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