



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics CBD Softgels
PRODUCT STRENGTH: 10 mg
LOT NUMBER: _____
BEST BY DATE: _____
SOFTGEL LOT NUMBER*: [GC1019-06](#)

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 shrink bands 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	9.5-12.5 mg CBD LOQ**: 10 PPM† (0.001%)	10.6mg	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	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Aspergillus	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	ND	PASS
MT Compliant Residual Solvents Panel	SOP-111	Montana Public Health and Human Services Rule 37.107.316	ND	PASS

** Level of Quantitation, † Parts Per Million

Quality Certified

Darcie Moran

Darcie Moran
 Manager of Quality Assurance

Date



Softgel

Lot # GC1019-06

Certificate of Compliance

Joy Organics

certificate ID
0EU96

total cannabinoids
10.7mg

per

0.6g capsule

terpenes NT
THC‡ ND
CBD‡ 10.6mg

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

**Stillwater
Laboratories**

received
test ID
sample ID 0EU96
order 7393
sample wgt
source ID Lot # GC1019-06

CAL infused

Description and Inspection

DESCRIPTION: Capsule sample received in a client-labelled bottle, by commercial courier. Labelled with METRC tag Lot.



Potency	result	LOD	LOQ	error (95%CI k=2)	Terpenes	result	LOD	LOQ	error (95%CI k=2)
total cannabinoids	10.7mg	0.00	0.00	±0.19mg	total terpenes	NT			
total THC	ND	0.00	0.00	±0.00mg	linalool	NT			
total CBD	10.6mg	0.00	0.00	±0.19mg	β-myrcene	NT			
tetrahydrocannabinolic acid (THCa)	ND	0.00	0.00	±0.00mg	D-limonene	NT			
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.00	0.00	±0.00mg	α-pinene	NT			
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.00	0.00	±0.00mg	β-pinene	NT			
tetrahydrocannabivarin (THCv)	ND	0.00	0.00	±0.00mg	ocimene	NT			
cannabidiolic acid (CBDA)	ND	0.00	0.00	±0.00mg	terpinolene	NT			
cannabidiol (CBD)	10.6mg	0.00	0.00	±0.19mg	α-humulene	NT			
cannabidivarin (CBDv)	0.1mg	0.00	0.00	±0.00mg	β-caryophyllene	NT			
cannabigerolic acid (CBGA)	ND	0.00	0.00	±0.00mg	α-bisabolol	NT			
cannabigerol (CBG)	ND	0.00	0.00	±0.00mg	camphene	NT			
cannabinol (CBN)	ND	<0.00	0.00	±0.00mg	Δ3-carene	NT			
cannabichromene (CBC)	ND	0.00	0.00	±0.00mg	caryophyllene oxide	NT			
‡ decarbed					para-cymene	NT			
					eucalyptol	NT			
					geraniol	NT			
					guaial	NT			
					isopulegol	NT			
					cis-nerolidol	NT			
					trans-nerolidol	NT			
					α-terpinene	NT			
					γ-terpinene	NT			

Mycotoxins

Microbial

FAIL: no failures
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2

FAIL: no failures
PASS: E coli, Salmonella sp., molds

Pesticides

FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloanthraniliprole, Chlorfenapyr, Chloromequat, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Ethoprop, Ethoprop, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Pacloutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spiromesifen, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiachloprid, Thiamethoxam, Trifloxystrobin

Residual Solvents

NOT TESTED

Metals

FAIL: no failures
PASS: Arsenic, Cadmium, Lead, Mercury

Certified by:

Justin M Johnston
Deputy Director

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406-881-2019

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ISO/IEC 17025:2017



Certificate #4961.01

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

Methods	SOP ID	equipment	Comments	Pesticides	result	limit	LOD	LOQ	error	pass/fail
potency	MSP-7.5.1.4	LC-2030C		Abamectin	ND	0.3 ppm	0.005	0.014	±0.014 ppm	P
terpenes	MSP-7.5.1.6	QP2020/HS20		Acephate	ND	5.0 ppm	0.005	0.014	±0.014 ppm	P
solvents	MSP-7.5.1.7	QP2020/HS20		Acequinocyl	ND	4.0 ppm	0.004	0.012	±0.012 ppm	P
pesticides	MSP-7.5.1.8	LCMS8060		Acetamidprid	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P
mycotoxins	MSP-7.5.1.8	LCMS8060		Aldicarb	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
microbial	MSP-7.5.1.10	Hardy Diag		Azoxystrobin	ND	40.0 ppm	0.001	0.004	±0.004 ppm	P
metals	MSP-7.5.1.11	ICPMS2030		Bifenazate	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P
Mycotoxins	result	limit	LOD LOQ error pass/fail	Bifenthrin	ND	0.5 ppm	0.001	0.002	±0.002 ppm	P
Ochratoxin A	ND	20 ppb	0.3 0.8 ±0.8 ppb	Boscalid	ND	10.0 ppm	0.013	0.039	±0.039 ppm	P
Aflatoxin B1B2G1G2	ND	20 ppb	0.3 0.8 ±0.8 ppb	Captan	NT	5.0 ppm				NA
Microbial	result	limit	LOD LOQ error pass/fail	Carbaryl	ND	0.5 ppm	0.005	0.015	±0.015 ppm	P
E coli	ND	0CFU	0.1 0.2 ±0.2CFU	Carbofuran	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Salmonella sp.	ND	0CFU	0.1 0.2 ±0.2CFU	Chloanthraniliprole	ND	40.0 ppm	0.012	0.037	±0.037 ppm	P
molds	ND	10000CFU	2.7 8.0 ±8.0CFU	Chlordane	NT	0.0 ppm				NA
Metals	result	limit	LOD LOQ error pass/fail	Chlorfenapyr	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
Arsenic	ND	1500 ppb	<0.0 0.0 ±?.? ppb	Chloromequat	ND	0.0 ppm	0.005	0.015	±0.015 ppm	P
Cadmium	ND	500 ppb	<0.0 0.0 ±?.? ppb	Chlorpyrifos	ND	0.0 ppm	0.026	0.078	±0.078 ppm	P
Lead	ND	500 ppb	<0.0 0.0 ±?.? ppb	Clofentezine	ND	0.5 ppm	0.005	0.014	±0.014 ppm	P
Mercury	ND	3000 ppb	<0.0 0.0 ±?.? ppb	Coumaphos	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
Residual Solvents	result	limit	LOD LOQ error pass/fail	Cyfluthrin	ND	1.0 ppm	0.005	0.014	±0.014 ppm	P
Dichloroethane	NT	0 ppm		Cypermethrin	ND	1.0 ppm	0.003	0.010	±0.010 ppm	P
Acetone	NT	5000 ppm		Daminozide	ND	0.0 ppm	0.018	0.053	±0.053 ppm	P
Acetonitrile	NT	410 ppm		Dichlorvos	ND	0.0 ppm	0.009	0.027	±0.027 ppm	P
Benzene	NT	0 ppm		Diazinon	ND	0.2 ppm	0.001	0.002	±0.002 ppm	P
Butane	NT	5000 ppm		Dimethoate	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
Chloroform	NT	0 ppm		Dimethomorph	NT	20.0 ppm				NA
Cyclohexane	NT	0 ppm		Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Ethanol	NT	5000 ppm		Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Ethyl acetate	NT	5000 ppm		Etoxazole	ND	1.5 ppm	0.002	0.007	±0.007 ppm	P
Ethyl ether	NT	5000 ppm		Fenhexamid	NT	10.0 ppm				NA
Ethylene oxide	NT	0 ppm		Fenoxycarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Heptane	NT	5000 ppm		Fenpyroximate	ND	2.0 ppm	0.001	0.002	±0.002 ppm	P
Hexane	NT	290 ppm		Fipronil	ND	0.0 ppm	0.005	0.014	±0.014 ppm	P
Isopropyl alcohol	NT	5000 ppm		Flonicamid	ND	2.0 ppm	0.063	0.188	±0.188 ppm	P
Methanol	NT	3000 ppm		Fludioxonil	ND	30.0 ppm	0.004	0.012	±0.012 ppm	P
Methylene chloride	NT	0 ppm		Hexythiazox	ND	2.0 ppm	0.006	0.018	±0.018 ppm	P
Pentane	NT	5000 ppm		Imazailil	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
Propane	NT	5000 ppm		Imidacloprid	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
Toluene	NT	890 ppm		KresoxymMethyl	NT	1.0 ppm				NA
Trichloroethylene	NT	0 ppm		Malathion	ND	5.0 ppm	0.003	0.010	±0.010 ppm	P
Xylenes	NT	2170 ppm		Metalaxyl	ND	15.0 ppm	0.005	0.014	±0.014 ppm	P
				Methiocarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
				Methomyl	ND	0.1 ppm	0.004	0.011	±0.011 ppm	P
				Methyl parathion	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Mevinphos	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
				Myclobutanil	ND	9.0 ppm	0.001	0.002	±0.002 ppm	P
				Naled	ND	0.5 ppm	0.003	0.010	±0.010 ppm	P
				Oxamyl	ND	0.2 ppm	0.001	0.004	±0.004 ppm	P
				Paclobutrazol	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				PCNB	NT	0.2 ppm				NA
				Permethrin	ND	20.0 ppm	0.006	0.019	±0.019 ppm	P
				Phosmet	ND	0.2 ppm	0.002	0.006	±0.006 ppm	P
				Piperonylbutoxide	ND	8.0 ppm	0.006	0.019	±0.019 ppm	P
				Prallethrin	ND	0.4 ppm	0.002	0.007	±0.007 ppm	P
				Propiconazole	ND	20.0 ppm	0.002	0.007	±0.007 ppm	P
				Propoxur	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
				Pyrethrin	ND	1.0 ppm	0.002	0.005	±0.005 ppm	P
				Pyridaben	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
				Spinetoram	ND	3.0 ppm	0.002	0.006	±0.006 ppm	P
				Spinosad	ND	3.0 ppm	0.004	0.013	±0.013 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spirotetramat	ND	13.0 ppm	0.001	0.004	±0.004 ppm	P
				Spiroxamine	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Tebuconazole	ND	2.0 ppm	0.003	0.010	±0.010 ppm	P
				Thiacloprid	ND	0.1 ppm	0.001	0.002	±0.002 ppm	P
				Thiamethoxam	ND	4.5 ppm	0.002	0.006	±0.006 ppm	P
				Trifloxystrobin	ND	30.0 ppm	0.001	0.004	±0.004 ppm	P

• 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; 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_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 considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:

Justin M Johnston
Deputy Director

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



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COA No.:	M-JO062320-02
COA Date:	06/29/20
Sample Rec'd Date:	06/23/20
ISO/IEC 17025:2017 Standard	Page 1 of 1

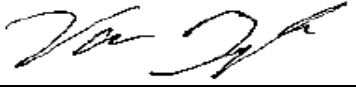
MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: *Softgel Capsule 10 mg*
Sample Batch/Lot No.: 2016901
ACCU Laboratory Ref.: 0767515
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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