



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics CBD Cream
PRODUCT STRENGTH: 250 mg
BEST BY DATE: 06/22/2023
FILL LOT NUMBER: 21166-25
HEMP EXTRACT LOT NUMBER: C0407-001 / B1202-001

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Off-white to light cream	PASS
Odor	SOP-100	Neutral with light hemp/CBD oil scent	PASS
Appearance	SOP-100	Medium viscosity skin cream in white container with clear cap	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and tamper evident label 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	237.5-312.5 mg CBD LOQ**: 10 PPM† (0.001%)	288.8 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
FL Compliant Pesticide Panel	SOP-111	Florida State Hemp Program Rule 5B-57.014: Action Limits for Pesticides	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Aspergillus	SOP-111	Complies with USP 61/62	Below LOQ	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	Below LOQ	PASS

** Level of Quantitation, † Parts Per Million

Quality Certified by: Kayla Kolber 07/02/2021
 Kayla Kolber Date
 Quality Assurance Technician

certificate ID

1FT64

1oz CBD Cream-250mg

HPC250-21165-25

rec'd 6/24/2021 11:41:40 AM

order 11130

7USC1639 Certificate of Analysis



total cannabinoids
307.0mg

per
ounce

THC‡ ND
CBD‡ 288.8mg

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

Stillwater Laboratories



Potency per ounce MSP-7.5.1.4 LOD LOQ error (95%CI k=2)

total cannabinoids	307.0mg	0.02 0.06	±5.55mg
total THC‡	ND	0.02 0.06	±0.06mg
total THC (THC+THCa)	ND	0.02 0.06	±0.06mg
total CBD‡	288.8mg	0.02 0.06	±5.23mg
total CBD (CBD+CBDA)	288.8mg	0.02 0.06	±5.23mg
tetrahydrocannabinolic acid (THCa)	ND	0.02 0.06	±0.06mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.02 0.05	±0.05mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.02 0.07	±0.07mg
tetrahydrocannabivarin (THCv)	ND	0.02 0.06	±0.06mg
cannabidiolic acid (CBDA)	ND	0.02 0.05	±0.05mg
cannabidiol (CBD)	288.8mg	0.02 0.06	±5.23mg
cannabidivarin (CBDv)	1.2mg	0.02 0.06	±0.08mg
cannabigerolic acid (CBGA)	ND	0.02 0.05	±0.05mg
cannabigerol (CBG)	17.1mg	0.01 0.02	±0.32mg
cannabinol (CBN)	ND	0.01 0.03	±0.03mg
cannabichromene (CBC)	ND	0.02 0.06	±0.06mg

Microbial MSP-7.5.1.10 limit LOD LOQ error result

E.coli	ND	OCFU	0.0 0.1	±0.1CFU	PASS
Salmonella sp.	ND	OCFU	0.0 0.1	±0.1CFU	PASS
molds	ND	1000OCFU	1.9 5.8	±5.8CFU	PASS
Ochratoxin A	ND	20 ppb	0.3 0.8	±0.8 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.3 0.8	±0.8 ppb	PASS

Pesticides MSP-7.5.1.8 limit LOD LOQ error result

Abamectin	ND	0.30 ppm	0.005 0.014	±0.014 ppm	PASS
Acephate	ND	5.00 ppm	0.005 0.015	±0.015 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.004 0.013	±0.013 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.003 0.010	±0.010 ppm	PASS
Aldicarb	ND	0.00 ppm	0.001 0.004	±0.004 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.001 0.004	±0.004 ppm	PASS
Bifenazate	ND	5.00 ppm	0.001 0.003	±0.003 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.001 0.002	±0.002 ppm	PASS
Boscalid	ND	10.00 ppm	0.014 0.041	±0.041 ppm	PASS
Carbaryl	ND	0.50 ppm	0.005 0.016	±0.016 ppm	PASS
Carbofuran	ND	0.00 ppm	0.001 0.003	±0.003 ppm	PASS
Chloanthraniliprole	ND	40.00 ppm	0.013 0.039	±0.039 ppm	PASS
Chlorfenapyr	ND	0.00 ppm	0.003 0.010	±0.010 ppm	PASS
Chlorpyrifos	ND	0.00 ppm	0.027 0.081	±0.081 ppm	PASS
Clofentezine	ND	0.50 ppm	0.005 0.015	±0.015 ppm	PASS
Coumaphos	ND	0.00 ppm	0.003 0.010	±0.010 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.005 0.015	±0.015 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.003 0.010	±0.010 ppm	PASS
Daminozide	ND	0.00 ppm	0.018 0.055	±0.055 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.009 0.028	±0.028 ppm	PASS
Diazinon	ND	0.20 ppm	0.001 0.002	±0.002 ppm	PASS
Dimethoate	ND	0.00 ppm	0.001 0.004	±0.004 ppm	PASS
Etoxazole	ND	1.50 ppm	0.002 0.007	±0.007 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.002 0.007	±0.007 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.001 0.002	±0.002 ppm	PASS
Fipronil	ND	0.00 ppm	0.005 0.015	±0.015 ppm	PASS
Flonicamid	ND	2.00 ppm	0.065 0.195	±0.195 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.004 0.013	±0.013 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.001 0.002	±0.002 ppm	PASS
Imazail	ND	0.00 ppm	0.004 0.013	±0.013 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.001 0.002	±0.002 ppm	PASS
Malathion	ND	5.00 ppm	0.003 0.010	±0.010 ppm	PASS
Metaxalyl	ND	15.00 ppm	0.005 0.015	±0.015 ppm	PASS
Methiocarb	ND	0.00 ppm	0.002 0.007	±0.007 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001 0.001	±0.001 ppm	PASS
Methyl parathion	ND	0.00 ppm	0.001 0.002	±0.002 ppm	PASS
Mevinphos	ND	0.00 ppm	0.003 0.010	±0.010 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.001 0.002	±0.002 ppm	PASS
Naled	ND	0.50 ppm	0.003 0.010	±0.010 ppm	PASS
Oxamyl	ND	0.20 ppm	0.001 0.004	±0.004 ppm	PASS
Paclbutrazol	ND	0.00 ppm	0.002 0.005	±0.005 ppm	PASS
Permethrin	ND	20.00 ppm	0.007 0.020	±0.020 ppm	PASS
Phosmet	ND	0.20 ppm	0.002 0.006	±0.006 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.007 0.020	±0.020 ppm	PASS
Prallethrin	ND	0.40 ppm	0.002 0.007	±0.007 ppm	PASS
Propiconazole	ND	20.00 ppm	0.002 0.007	±0.007 ppm	PASS
Propoxur	ND	0.00 ppm	0.004 0.011	±0.011 ppm	PASS

Metals MSP-7.5.1.11 limit LOD LOQ error result

Arsenic	ND	1500 ppb	7.2 21.5	±21.5 ppb	PASS
Cadmium	ND	500 ppb	7.7 23.1	±23.1 ppb	PASS
Lead	ND	500 ppb	12.0 36.1	±36.1 ppb	PASS
Mercury	ND	300 ppb	6.0 18.1	±18.1 ppb	PASS

Pesticides MSP-7.5.1.8 limit LOD LOQ error result

Pyrethrin	ND	1.00 ppm	0.002 0.005	±0.005 ppm	PASS
Pyridaben	ND	3.00 ppm	0.001 0.002	±0.002 ppm	PASS
Spinetoram	ND	3.00 ppm	0.002 0.007	±0.007 ppm	PASS
Spinosad	ND	3.00 ppm	0.004 0.013	±0.013 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.002 0.006	±0.006 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.002 0.005	±0.005 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.001 0.002	±0.002 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.003 0.010	±0.010 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.001 0.002	±0.002 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.002 0.006	±0.006 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.001 0.004	±0.004 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:



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Stillwater Laboratories Inc.
MT License L0001, L00007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

* All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry} ... Decarboxylated cannabinoid concentration is calculated 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_e² = Σ (d_i/d_i)² s_e² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} x s_e. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

Printed 6/26/2021 12:04 PM



C0407-001

7USC1639 Certificate of Analysis

sample ID 26517
source ID 1Z78V4E80191881328

certificate ID 1DF103

total cannabinoids 93.07%

THC‡ ND CBD‡ ND terpenes

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

Stillwater Laboratories

order 10371
analysis date 4/8/2021 12:30:01 PM
test tag 10371.1.2
sample wgt

Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, by commercial courier. Labeled 26517 and sample tag 10371.1.2.

caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

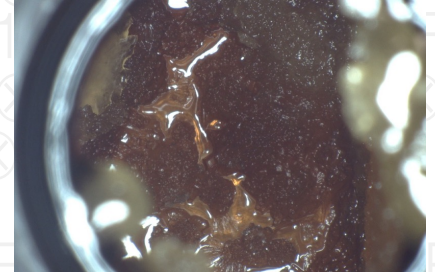


Table with columns: Potency per, MSP-7.5.1.4, LOD, LOQ, error (95%CI k=2), Terpenes, MSP-7.5.1.6, MSP-7.5.1.6. Rows include total CBD, THC, and various cannabinoids.

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Table with columns: Microbial, Metals, Pesticides, limit. Rows include E.coli, Salmonella, Aflatoxin, Acetone, and various pesticides.

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by: Kyle Larson, MSc (Biology) Deputy Director

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Certificate #4961.01

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



B1202-001

7USC1639 Certificate of Analysis

sample ID 25319

This Product Has Been Tested and Complies with 7USC1639(1)

Stillwater Laboratories

certificate ID OMD32

total cannabinoids 91.73%
THC‡ ND CBD‡ 86.50%

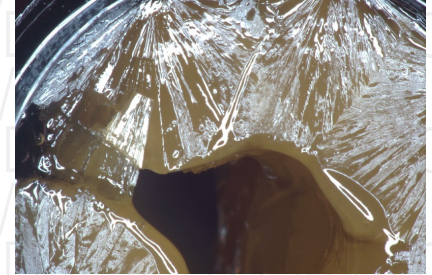
order 9109

analysis date 12/4/2020 11:55:12 AM

test tag B1202-001

sample wgt 10.0 g

7USC1639 Extract



Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample (10.00g) received in a client-labeled bottle, by commercial courier. Labeled 25319 and sample tag B1202-001.

Table with columns: Potency per, LOD, LOQ, error (95%CI k=2). Rows include tetrahydrocannabinolic acid (THCa), Δ9-tetrahydrocannabinol (Δ9 THC), Δ8-tetrahydrocannabinol (Δ8 THC), tetrahydrocannabinavarin (THCv), cannabidiolic acid (CBDa), cannabidiol (CBD), cannabidivarin (CBDv), cannabigerolic acid (CBGa), cannabigerol (CBG), cannabinal (CBN), and cannabichromene (CBC).

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit , LOQ = quantitation limit

Table with columns: Microbial, Solvents, Metals, Pesticides. Rows list various substances and their test results (PASS, limit values).

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8060)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Signature of Kyle Larson

Kyle Larson, MSc (Biology)
Deputy Director

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406-881-2019

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