



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics CBD Bath Bombs
PRODUCT STRENGTH: 25 mg / each
BEST BY DATE: 02/01/2023
FILL LOT NUMBER: 21027-02
BATH BOMB LOT NUMBER: 21027-02
HEMP EXTRACT LOT NUMBER*: C0125-001

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	White to slightly off-white	PASS
Odor	SOP-100	Lavender	PASS
Appearance	SOP-100	Round, white to slightly off-white bath bombs in shrink wrap	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	23.75-31.25 mg CBD / ea. LOQ*: 10 PPM† (0.001%)	31.4 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 - Mold	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: Kei Horikawa 03/10/2021
Kei Horikawa Date
Quality Control Manager

1BG02

BathBomb 0.8oz 27-02

7USC1639 Certificate of Analysis

Batch# 21027-02

prod. date 1/29/2021

rec'd 2/9/2021 10:12:21 AM

order 9766

total
cannabinoids

35.9mg

THC tot ND

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

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

total cannabinoids	35.9mg	0.02 0.06 ±0.71mg
total THC†	ND	0.02 0.06 ±0.06mg
total THC (THC+THCa)	ND	0.02 0.06 ±0.06mg
total CBD†	34.1mg	0.02 0.06 ±0.67mg
total CBD (CBD+CBDA)	34.1mg	0.02 0.06 ±0.67mg
tetrahydrocannabinolic acid (THCa)	ND	0.02 0.07 ±0.07mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.02 0.06 ±0.06mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.03 0.08 ±0.08mg
tetrahydrocannabivarin (THCv)	0.2mg	0.02 0.07 ±0.07mg
cannabidiolic acid (CBDA)	ND	0.02 0.06 ±0.06mg
cannabidiol (CBD)	34.1mg	0.02 0.07 ±0.68mg
cannabidivarin (CBDv)	ND	0.02 0.07 ±0.07mg
cannabigerolic acid (CBGA)	ND	0.02 0.06 ±0.06mg
cannabigerol (CBG)	1.6mg	0.01 0.04 ±0.07mg
cannabinol (CBN)	ND	0.01 0.04 ±0.04mg
cannabichromene (CBC)	ND	0.02 0.06 ±0.06mg

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	OCFU	151.8	455.4	±455.4CFU	PASS
Salmonella sp.	ND	OCFU	151.8	455.4	±455.4CFU	PASS
molds	ND	10000CFU	0.1	0.2	±0.2CFU	PASS
Ochratoxin A	ND	20 ppb	1.5	4.4	±4.4 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.1	0.3	±0.3 ppb	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Abamectin	ND	0.30 ppm	0.001	0.002	±0.002 ppm	PASS
Acephate	ND	5.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.001	0.003	±0.003 ppm	PASS
Acetamiprid	ND	5.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Aldicarb	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Azoxystrobin	ND	40.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Bifenazate	ND	5.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Bifenthrin	ND	0.50 ppm	<0.001	0.000	±0.000 ppm	PASS
Boscalid	ND	10.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Carbaryl	ND	0.50 ppm	<0.001	0.000	±0.000 ppm	PASS
Carbofuran	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Chlorantraniliprole	ND	40.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Chlorfenapyr	ND	0.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Chlorpyrifos	ND	0.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Clofentezine	ND	0.50 ppm	<0.001	0.000	±0.000 ppm	PASS
Coumaphos	ND	0.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.001	0.002	±0.002 ppm	PASS
Cypermethrin	ND	1.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Daminozide	ND	0.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Dichlorvos	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Diazinon	ND	0.20 ppm	<0.001	0.000	±0.000 ppm	PASS
Dimethoate	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Etoxazole	ND	1.50 ppm	<0.001	0.000	±0.000 ppm	PASS
Fenoxycarb	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Fenpyroximate	ND	2.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Fipronil	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Flonicamid	ND	2.00 ppm	0.001	0.003	±0.003 ppm	PASS
Fludioxonil	ND	30.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Hexythiazox	ND	2.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Imazalil	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Imidacloprid	ND	3.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Malathion	ND	5.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Metaxyl	ND	15.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Methiocarb	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001	0.000	±0.000 ppm	PASS
Methyl parathion	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Mevinphos	ND	0.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Myclobutanil	ND	9.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Naled	ND	0.50 ppm	<0.001	0.001	±0.001 ppm	PASS
Oxamyl	ND	0.20 ppm	<0.001	0.000	±0.000 ppm	PASS
Paclobutrazol	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Permethrin	ND	20.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Phosmet	ND	0.20 ppm	<0.001	0.000	±0.000 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Prallethrin	ND	0.40 ppm	<0.001	0.001	±0.001 ppm	PASS
Propiconazole	ND	20.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Propoxur	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Metals	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	92.0	275.9	±275.9 ppb	PASS
Cadmium	ND	500 ppb	51.2	153.7	±153.7 ppb	PASS
Lead	ND	500 ppb	254.4	763.3	±763.3 ppb	PASS
Mercury	ND	300 ppb	46.6	139.7	±139.7 ppb	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Pyrethrin	ND	1.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Pyridaben	ND	3.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Spinetoram	ND	3.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Spinosad	ND	3.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Spiromesifen	ND	12.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Spirotetramat	ND	13.00 ppm	<0.001	0.001	±0.001 ppm	PASS
Spiroxamine	ND	0.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Tebuconazole	ND	2.00 ppm	<0.001	0.000	±0.000 ppm	PASS
Thiacloprid	ND	0.10 ppm	<0.001	0.000	±0.000 ppm	PASS
Thiamethoxam	ND	4.50 ppm	<0.001	0.000	±0.000 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	<0.001	0.000	±0.000 ppm	PASS

Certified by:

QA Manager

ISO/IEC 17025:2017

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} ... Decarboxyated 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 $s_e^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± $t_{CL,90} \times s_e$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

Kyle Larson, MSC
Deputy Director

Jacob Harris

Certificate #4961.01
<https://portal.a2la.org/scopepdf/4961-01.pdf>Stillwater Laboratories Inc.
MT License L0001, L00007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

Printed 3/2/2021 11:50 AM



total cannabinoids	CBD	THC
89.4%	total 83.9%	0.0%
25656	decarb total 83.87%	0%

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



Stillwater
Laboratories

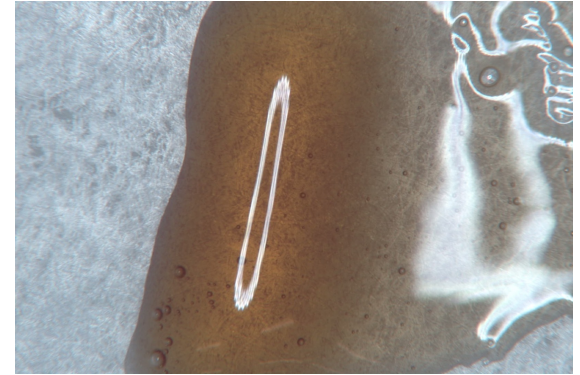
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID sample date 1/26/21 12:33 PM
order 9634 labID 1AW04 weight
source 1Z78V4E80196231002

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/Hardy
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.11	ICPMS2030

concentrate



Potency	%	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %	terpenes not tested / not required						
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0%	± 0.02 %							
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0%	± 0.02 %							
tetrahydrocannabivarin (THCv)	0%	± 0.02 %							
cannabidiolic acid (CBDA)	0%	± 0.02 %							
cannabidiol (CBD)	83.87%	± 0.75 %							
cannabidivarin (CBDv)	.63%	± 0.07 %							
cannabigerolic acid (CBGA)	0%	± 0.02 %							
cannabigerol (CBG)	4.94%	± 0.18 %							
cannabinol (CBN)	0%	± 0.02 %							
cannabichromene (CBC)	0%	± 0.02 %							

Solvents	MT limit	1AW04	LOQ	Pesticides (MT)	MT limit	1AW04	LOQ	Pesticides (other)	1AW04	LOQ
propane	5,000	PASS	<10ppm	abamectin	2.50 ppm	PASS	<10ppb	acephate	0.00 ppm	<10ppb
butanes	5,000	PASS	<10ppm	acequinocyl	10.00 ppm	PASS	<10ppb	acetamiprid	0.00 ppm	<10ppb
pentanes	5,000	PASS	<10ppm	bifenazate	1.00 ppm	PASS	<10ppb	aldicarb	0.00 ppm	<10ppb
hexanes	290	PASS	<10ppm	bifenthrin	1.00 ppm	PASS	<10ppb	azoxystrobin	0.00 ppm	<10ppb
cyclohexane	3,880	PASS	<10ppm	chlormequat cl.	5.00 ppm	PASS	<10ppb	boscalid	0.00 ppm	<10ppb
heptanes	5,000	PASS	<10ppm	cyfluthrin	5.00 ppm	PASS	<80ppb	carbaryl	0.00 ppm	<10ppb
methanol	3,000	PASS	<10ppm	diaminozide	5.00 ppm	PASS	<10ppb	carbofuran	0.00 ppm	<10ppb
isopropanol	5,000	PASS	<10ppm	etoxazole	1.00 ppm	PASS	<10ppb	chloanthraniliprole	0.00 ppm	<10ppb
acetone	5,000	PASS	<10ppm	fenoxycarb	1.00 ppm	PASS	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
ethyl acetate	5,000	PASS	<10ppm	imazalil	1.00 ppm	PASS	<10ppb	clofentezine	0.00 ppm	<10ppb
benzene	2	PASS	<0.2ppm	imidacloprid	2.00 ppm	PASS	<10ppb	cypermethrin	0.00 ppm	<10ppb
toluene	890	PASS	<10ppm	myclobutanil	0.60 ppm	PASS	<10ppb	diazinon	0.00 ppm	<10ppb
xylene	2,170	PASS	<10ppm	paclobutrazol	2.00 ppm	PASS	<10ppb	dichlorvos	0.00 ppm	<10ppb
chloroform	2	PASS	<0.2ppm	pyrethrins	5.00 ppm	PASS	<10ppb	dimethoate	0.00 ppm	<10ppb
dichloromethane	600	PASS	<10ppm	spinosad	1.00 ppm	PASS	<10ppb	etofenprox	0.00 ppm	<10ppb
acetonitrile	NA	N/A	<10ppm	spiromesifen	1.00 ppm	PASS	<10ppb	fenpyroximate	0.00 ppm	<10ppb
ethanol	NA	N/A	<10ppm	spirotetramat	1.00 ppm	PASS	<10ppb	fipronil	0.00 ppm	<10ppb
tetrahydrofuran	NA	N/A	<10ppm	trifloxystrobin	1.00 ppm	PASS	<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

• 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}. • Decarboxylated 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)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

Certified by:

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