



# JOY ORGANICS

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics CBD Bath Bombs  
**PRODUCT STRENGTH:** 25 mg / each  
**BEST BY DATE:** 02/04/2023  
**FILL LOT NUMBER:** 21033-21  
**BATH BOMB LOT NUMBER:** 21033-21  
**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
<b>Potency - Total CBD</b>	SOP-111	23.75-31.25 mg CBD / ea. LOQ**: 10 PPM† (0.001%)	<b>37.1 mg</b>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</b>	PASS
<b>FL Compliant Pesticide Panel</b>	SOP-111	Florida State Hemp Program Rule 5B-57.014: Action Limits for Pesticides	<b>ND</b>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Mold</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<b>Below LOQ</b>	PASS

\* Level of Quantitation, † Parts Per Million

Quality Certified by: Kei Horikawa 03/10/2021  
 Kei Horikawa Date  
 Quality Control Manager

certificate ID  
**1BG10**

# BathBomb 0.8oz 33-21

# 7USC1639 Certificate of Analysis

Batch# 21033-21

prod. date 2/4/2021

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

order 9766



total  
cannabinoids  
**38.3mg**

THC tot ND  
per bomb CBD tot 37.1mg

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)	result
<b>total cannabinoids</b>	<b>38.3mg</b>	<b>0.02</b>	<b>0.06</b>	<b>±0.74mg</b>	<b>ND</b>
<b>total THC‡</b>	<b>ND</b>	<b>0.02</b>	<b>0.06</b>	<b>±0.06mg</b>	<b>ND</b>
<b>total THC (THC+THCa)</b>	<b>ND</b>	<b>0.02</b>	<b>0.06</b>	<b>±0.06mg</b>	<b>ND</b>
<b>total CBD‡</b>	<b>37.1mg</b>	<b>0.02</b>	<b>0.06</b>	<b>±0.72mg</b>	<b>37.1mg</b>
<b>total CBD (CBD+CBDa)</b>	<b>37.1mg</b>	<b>0.02</b>	<b>0.06</b>	<b>±0.72mg</b>	<b>37.1mg</b>
tetrahydrocannabinolic acid (THCa)	ND	0.02	0.06	±0.06mg	ND
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.02	0.05	±0.05mg	ND
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.02	0.07	±0.07mg	ND
tetrahydrocannabivarin (THCv)	ND	0.02	0.06	±0.06mg	ND
cannabidiolic acid (CBDa)	ND	0.02	0.05	±0.05mg	ND
cannabidiol (CBD)	37.1mg	0.02	0.06	±0.72mg	37.1mg
cannabidivarin (CBDv)	ND	0.02	0.06	±0.06mg	ND
cannabigerolic acid (CBGa)	ND	0.02	0.05	±0.05mg	ND
cannabigerol (CBG)	1.2mg	0.01	0.03	±0.05mg	1.2mg
cannabinol (CBN)	ND	0.01	0.03	±0.03mg	ND
cannabichromene (CBC)	ND	0.02	0.06	±0.06mg	ND

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	OCFU	151.8	1455.4	±455.4CFU	PASS
Salmonella sp.	ND	OCFU	151.8	1455.4	±455.4CFU	PASS
molds	ND	10000CFU	0.1	0.2	±0.2CFU	PASS
Ochratoxin A	ND	20 ppb	1.3	3.9	±3.9 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	0.000	±0.000 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	0.000	±0.000 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
Fonicamid	ND	2.00 ppm	0.001	0.002	±0.002 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
Imazail	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
Metaxalyl	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

Metals	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	87.4	262.3	±262.3 ppb	PASS
Cadmium	ND	500 ppb	48.7	146.1	±146.1 ppb	PASS
Lead	ND	500 ppb	241.9	725.6	±725.6 ppb	PASS
Mercury	ND	300 ppb	44.3	132.8	±132.8 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

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

QA Manager

Kyle Larson, MSC  
Deputy Director

Jacob Harris



ISO/IEC 17025:2017



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

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]<sub>HPLC</sub> x volume<sub>dilution</sub>/M<sub>dry</sub>. ... Decarboxyated cannabinoid concentration is calculated 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; 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<sub>e</sub><sup>2</sup> = Σ (d<sub>i</sub>/d<sub>i</sub>)<sup>2</sup>s<sub>e</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t<sub>CL90</sub> x s<sub>e</sub>. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

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total cannabinoids		CBD	THC
		total 83.9%	0.0%
<b>89.4%</b>	decarb total	83.87%	0%
25656			

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



Stillwater Laboratories

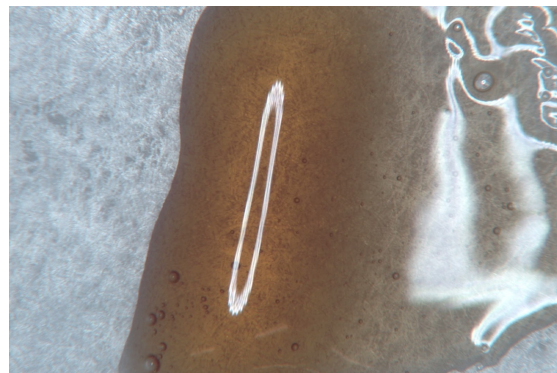
https://portal.a2la.org/scopepdf/4961-01.pdf

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 <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	0%	± 0.02 %							
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> 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	chloantranilprole	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
xylenes	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

Toxic Metals	MT limit	1AW04	LOQ	Microbial	MT limit	1AW04	LOQ
arsenic	2 ppm	PASS	<10ppb	E. coli	10 CFU	PASS	<10 CFU/g
cadmium	4.1 ppm	PASS	<10ppb	Salmonella sp.	10 CFU	PASS	<10 CFU/g
lead	1.2 ppm	PASS	<10ppb	molds	10000 CFU	PASS	<10k CFU/g
mercury	0.4 ppm	PASS	<10ppb	Aflatoxin B1,B2,G1,G2	20 ppb	PASS	<20 ppb
				Ochratoxin A	20 ppb	PASS	<20 ppb

• 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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 Deputy Director  
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