



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics CBD Bath Bombs
PRODUCT STRENGTH: 25 mg / each
BEST BY DATE: 6/20/2024 & 6/18 2024
BATCH LOT NUMBER: 22165-17/22164-17

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%)	26.4mg	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
MT Compliant Residual Solvents Panel	SOP-111	Montana Public Health and Human Services Rule 37.107.316	Below LOQ	PASS

*Level of Quantitation, † Parts Per Million

Quality Certified

9/14/2022

Date

SAMPLE NAME: PJOBBLB 2167A

Infused, Hemp

SAMPLE DETAIL

Batch Number: 2167A

Sample ID: 220624Q018

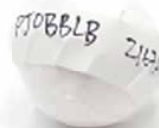
Date Collected: 06/24/2022 Date

Received: 06/24/2022 Batch Size:

Sample Size: 1.0 grams

Unit Mass: 22.7 grams per Unit

Serving Size:



Scan QRcode to verify
authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 26.468 mg/unit

Sum of Cannabinoids: 28.942 mg/unit

Total Cannabinoids: 28.942 mg/unit

Total TH-C/CBD is calculated using the following formulas to take into account the loss of a methyl group during the decarboxylation step:
 Total TH-C = $\Delta^8\text{-TH-C} + (\text{TH-Ca} \times 0.877)$
 Total CBD = $\text{CBD} + (\text{CBDa} \times 0.877)$
 Sum of Cannabinoids = $\Delta^8\text{-TH-C} + \text{TH-Ca} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBOW} + \text{CBDVa} + \Delta^8\text{-TH-C} + \text{CBL} + \text{CBN}$
 Total Cannabinoids = $(\Delta^8\text{-TH-C} + 0.877 \times \text{TH-Ca}) + (\text{CBD} + 0.877 \times \text{CBDa}) + (\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVa}) + (\text{CBC} + 0.877 \times \text{CBCa}) + (\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta^8\text{-TH-C} + \text{CBL} + \text{CBN}$

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulation Title 16 Effective Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS = Results within limits/specifications, FAIL = Results exceed limits/specifications.

References: Limit of detection (LOD), Limit of quantification (LOQ), not detected (ND), not tested (NT)


 QC verified by: Kevin Flores
 Date: 06/25/2022


 Approved by: Josh Wurzer, President
 Date: 06/25/2022

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

HBB4LAV-22165-17/22164-17

Batch ID or Lot Number: 22165-17/22164-17	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 18Aug2022	Started: 17Aug2022	Received: 16Aug2022	


Residual Solvents - Colorado Compliance

Test ID: T000218085


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1837	ND	
Butanes (Isobutane, n-Butane)	190 - 3805	ND	
Methanol	64 - 1288	ND	
Pentane	100 - 2004	ND	
Ethanol	97 - 1943	ND	
Acetone	106 - 2113	ND	
Isopropyl Alcohol	109 - 2173	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	106 - 2124	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	106 - 2113	ND	
Toluene	19 - 377	ND	
Xylenes (m,p,o-Xylenes)	140 - 2805	ND	

Final Approval


Sam Smith
19Aug2022
06:37:00 PM MDT

PREPARED BY / DATE


Daniel Weidensaul
19Aug2022
06:51:00 PM MDT

APPROVED BY / DATE

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

HBB4LAV-22165-17/22164-17

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Pesticides


Test ID: T000218082

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	308 - 2732	ND		Malathion	270 - 2721	ND
Acephate	40 - 2787	ND		Metalaxyl	44 - 2712	ND
Acetamiprid	40 - 2697	ND		Methiocarb	38 - 2734	ND
Azoxystrobin	41 - 2712	ND		Methomyl	39 - 2706	ND
Bifenazate	41 - 2673	ND		MGK 264 1	158 - 1631	ND
Boscalid	39 - 2759	ND		MGK 264 2	113 - 1163	ND
Carbaryl	39 - 2720	ND		Myclobutanil	44 - 2705	ND
Carbofuran	43 - 2690	ND		Naled	48 - 2733	ND
Chlorantraniliprole	38 - 2716	ND		Oxamyl	40 - 2690	ND
Chlorpyrifos	41 - 2732	ND		Paclobutrazol	42 - 2711	ND
Clofentezine	289 - 2730	ND		Permethrin	293 - 2771	ND
Diazinon	290 - 2770	ND		Phosmet	39 - 2677	ND
Dichlorvos	277 - 2714	ND		Prophos	281 - 2721	ND
Dimethoate	42 - 2706	ND		Propoxur	42 - 2700	ND
E-Fenpyroximate	286 - 2760	ND		Pyridaben	295 - 2764	ND
Etofenprox	41 - 2760	ND		Spinosad A	30 - 2258	ND
Etoxazole	288 - 2736	ND		Spinosad D	47 - 504	ND
Fenoxycarb	41 - 2701	ND		Spiromesifen	272 - 2759	ND
Fipronil	40 - 2771	ND		Spirotetramat	265 - 2748	ND
Flonicamid	47 - 2738	ND		Spiroxamine 1	17 - 1172	ND
Fludioxonil	256 - 2768	ND		Spiroxamine 2	23 - 1571	ND
Hexythiazox	40 - 2773	ND		Tebuconazole	302 - 2715	ND
Imazalil	274 - 2744	ND		Thiacloprid	42 - 2687	ND
Imidacloprid	41 - 2733	ND		Thiamethoxam	37 - 2727	ND
Kresoxim-methyl	22 - 2788	ND		Trifloxystrobin	41 - 2734	ND

Final Approval


 Sam Smith
 18Aug2022
 02:14:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 19Aug2022
 12:39:00 PM MDT
 APPROVED BY / DATE

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

HBB4LAV-22165-17/22164-17

Batch ID or Lot Number: 22165-17/22164-17	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: 18Aug2022	Started: 17Aug2022	Received: 16Aug2022	

Mycotoxins - Colorado Compliance


Test ID: T000218086

Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.41 - 128.69	ND	N/A
Aflatoxin B1	1.37 - 33.08	ND	
Aflatoxin B2	1.17 - 32.93	ND	
Aflatoxin G1	1.02 - 33.47	ND	
Aflatoxin G2	1.05 - 33.53	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
22Aug2022
02:59:00 PM MDT
PREPARED BY / DATE


Jacob Miller
22Aug2022
03:00:00 PM MDT
APPROVED BY / DATE


Heavy Metals - Colorado Compliance


Test ID: T000218084

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.56	ND	
Cadmium	0.04 - 4.44	ND	
Mercury	0.04 - 4.49	ND	
Lead	0.04 - 4.39	ND	

Final Approval


Daniel Weidensaul
24Aug2022
06:50:00 PM MDT
PREPARED BY / DATE


Courtney Richards
24Aug2022
08:09:00 PM MDT
APPROVED BY / DATE

Prepared for:
JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

HBB4LAV-22165-17/22164-17

Batch ID or Lot Number: 22165-17/22164-17	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: 18Aug2022	Started: 17Aug2022	Received: 16Aug2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000218083
Methods: TM25 (qPCR) TM24, TM26,
TM27 (Culture Plating): Microbial
(Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
22Aug2022
04:23:00 PM MDT

PREPARED BY / DATE



Eden Thompson-Wright
22Aug2022
05:14:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f45bcf7d-515f-4656-9446-62adda9223c4>

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details.](#)



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