

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CBD Bath Bombs, Lavender  
**PRODUCT STRENGTH:** 25 mg / single ball, 100 mg / box  
**BATCH:** 21294-02  
**BEST BY DATE:** 10/22/2023  
**HEMP EXTRACT LOT:** C0623-001

*\*Click on the links to view third-party reports\**

### Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Pure white	PASS
Odor	Joy Internal	Lavender	PASS
Appearance	Joy Internal	Firm sphere with a thick band around the circumference of the center, in plastic wrap.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Box carton is tight and tamper-evident label intact.	PASS
Secondary Package Eval.	Joy Internal	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>	HPLC-UV DAD	LOQ*: ≥ 25 mg / single sphere, 100 mg / box carton	<b>28.5 mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	<b>Below LOQ</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25	<b>Absent</b>	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals</b>	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb†† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>Below LOQ</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS

\*Level of Quantification  
 \*\*Colony Forming Units per Gram  
 † Parts Per Million †† Part Per Billion

Values expressed in scientific notation.  
 Examples:  
 10<sup>2</sup>=100  
 10<sup>3</sup>=1,000

Quality Certified

  
 Kayla Kolber  
 Quality Assurance Technician

11/10/2021

Date

**PJOBBL**


Batch ID or Lot Number: **21294-02**      Test: **Potency**      Reported: **11/2/21**


Matrix:      Test ID:      Started:      USDA License:  
 Unit      T000172339      11/1/21      N/A

Status:      Method:      Received:      Sampler ID:  
 N/A      TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)      10/28/2021 @ 10:41 AM      N/A

**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.486	1.650	ND	ND	# of Servings = 1 Sample Weight=21.792g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.548	1.863	ND	ND	
Cannabidiolic acid (CBDA)	3.640	11.986	ND	ND	
Cannabidiol (CBD)	3.549	11.686	28.503	1.31	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	3.757	12.350	ND	ND	
Cannabinolic Acid (CBNA)	2.151	7.073	ND	ND	
Cannabinol (CBN)	0.984	3.235	ND	ND	
Cannabigerolic acid (CBGA)	3.153	10.366	ND	ND	
Cannabigerol (CBG)	0.754	2.480	2.28*	0.1*	
Tetrahydrocannabivarinic Acid (THCVA)	2.666	8.765	ND	ND	
Tetrahydrocannabivarin (THCV)	0.686	2.256	ND	ND	
Cannabidivarinic Acid (CBDVA)	1.518	5.000	ND	ND	
Cannabidivarin (CBDV)	0.839	2.764	ND	ND	
Cannabichromenic Acid (CBCA)	1.215	3.995	ND	ND	
Cannabichromene (CBC)	1.329	4.368	ND	ND	
<b>Total Cannabinoids</b>			<b>30.783</b>	<b>1.41</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			28.503	1.31	

  
 Hannah Wright  
 02-Nov-2021  
 06:09 PM

  
 Daniel Weidensaul  
 2-Nov-21  
 6:25 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDA} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02

**PJOBBL**

Batch ID or Lot Number: **21294-02**      Test: **Pesticides**      Reported: **11/2/21**

Matrix: Concentrate      Test ID: T000172340      Started: 11/1/21      USDA License: N/A

Status: N/A      Method: TM17(LC-QQQ LC MS/MS):      Received: 10/28/2021 @ 10:41 AM      Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	49	ND	Fenoxycarb	47	ND	Paclobutrazol	51	ND
Acetamiprid	45	ND	Fipronil	49	ND	Permethrin	302	ND
Avermectin	311	ND	Flonicamid	52	ND	Phosmet	46	ND
Azoxystrobin	43	ND	Fludioxonil	322	ND	Prophos	278	ND
Bifenazate	42	ND	Hexythiazox	47	ND	Propoxur	44	ND
Boscalid	47	ND	Imazalil	307	ND	Pyridaben	280	ND
Carbaryl	44	ND	Imidacloprid	51	ND	Spinosad A	32	ND
Carbofuran	48	ND	Kresoxim-methyl	150	ND	Spinosad D	58	ND
Chlorantraniliprole	59	ND	Malathion	304	ND	Spiromesifen	308	ND
Chlorpyrifos	500	ND	Metalaxyl	48	ND	Spirotetramat	309	ND
Clofentezine	302	ND	Methiocarb	49	ND	Spiroxamine 1	24	ND
Diazinon	309	ND	Methomyl	55	ND	Spiroxamine 2	29	ND
Dichlorvos	322	ND	MGK 264 1	188	ND	Tebuconazole	309	ND
Dimethoate	45	ND	MGK 264 2	127	ND	Thiacloprid	45	ND
E-Fenpyroximate	284	ND	Myclobutanil	45	ND	Thiamethoxam	48	ND
Etofenprox	40	ND	Naled	49	ND	Trifloxystrobin	45	ND
Etoxazole	314	ND	Oxamyl	1500	ND			

*Samantha Smith*  
 Sam Smith  
 11/2/2021  
 4:32:00 PM

*Daniel Weidensaul*  
 Daniel Weidensaul  
 11/2/2021  
 4:55:00 PM

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**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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**PJOBBL**


Batch ID or Lot Number: <b>21294-02</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>11/5/21</b>	
Matrix: Finished Product	Test ID: T000173012	Started: 11/2/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 11/02/2021 @ 10:49 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

  
 Jackson Osaghae-Nosa  
 11/5/2021  
 10:17:00 AM

PREPARED BY / DATE

  
 Carly Bader  
 11/5/2021  
 10:20:00 AM

APPROVED BY / DATE

**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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**PJOBBL**

Batch ID or Lot Number: <b>21294-02</b>	Test: <b>Metals</b>	Reported: <b>11/3/21</b>	
Matrix: Unit Co	Test ID: T000172342	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 10/28/2021 @ 10:41 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.043 - 4.32	ND	
Cadmium	0.044 - 4.40	ND	
Mercury	0.042 - 4.24	ND	
Lead	0.043 - 4.32	ND	

	Daniel Weidensaul 3-Nov-21 1:24 PM		Sam Smith 3-Nov-21 1:26 PM
PREPARED BY / DATE		APPROVED BY / DATE	

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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## PJOBBL

Batch ID or Lot Number: <b>21294-02</b>	Test: <b>Mycotoxins</b>	Reported: <b>11/2/21</b>	
Matrix: Concentrate	Test ID: T000172344	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 10/28/2021 @ 10:41 AM	Sampler ID: N/A

## MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.5 - 128.3	ND	N/A
Aflatoxin B1	1.1 - 32.9	ND	
Aflatoxin B2	1 - 33.7	ND	
Aflatoxin G1	1.3 - 33.4	ND	
Aflatoxin G2	1.2 - 31.2	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
 Sam Smith  
 2-Nov-21  
 5:03 PM

PREPARED BY / DATE

  
 Ryan Weems  
 2-Nov-21  
 5:05 PM

APPROVED BY / DATE

### Definitions

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Certificate #4329.02

**PJOBBL**

Batch ID or Lot Number: <b>21294-02</b>	Test: <b>Residual Solvents</b>	Reported: <b>10/29/21</b>	
Matrix: N/A	Test ID: T000172343	Started: 10/29/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 10/28/2021 @ 10:41 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	124 - 2473	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	244 - 4888	*ND	
<b>Methanol</b>	92 - 1843	*ND	
<b>Pentane</b>	134 - 2682	*ND	
<b>Ethanol</b>	148 - 2953	*ND	
<b>Acetone</b>	145 - 2907	*ND	
<b>Isopropyl Alcohol</b>	156 - 3120	*ND	
<b>Hexane</b>	8 - 157	*ND	
<b>Ethyl Acetate</b>	148 - 2958	*ND	
<b>Benzene</b>	0.3 - 6	*ND	
<b>Heptanes</b>	140 - 2802	*ND	
<b>Toluene</b>	26 - 527	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	198 - 3958	*ND	

 Hannah Wright  
29-Oct-21  
5:53 PM

 Ryan Weems  
29-Oct-21  
5:55 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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