

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Bath Bombs, Lavender
PRODUCT STRENGTH: 25 mg / single ball, 100 mg / box
BATCH: 21296-29
BEST BY DATE: 10/27/2023
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
Potency - Total CBD	HPLC-UV DAD	LOQ*: ≥ 25 mg / single sphere, 100 mg / box carton	3, ., mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	Below LOQ	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ³ CFU/gram	Below LOQ	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

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

Values expressed in scientific notation.
 Examples:
 10²=100
 10³=1,000

Quality Certified


 Kayla Kolber
 Quality Assurance Technician

11/10/2021

Date

PJOBBL

Batch ID or Lot Number: **21294-07** Test: **Potency** Reported: **11/2/21**


Matrix: Test ID: Started: USDA License:
 Unit T000172345 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)	0.551	1.873	ND	ND	# of Servings = 1 Sample Weight=25.241g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.622	2.114	ND	ND	
Cannabidiolic acid (CBDA)	4.132	13.606	ND	ND	
Cannabidiol (CBD)	4.029	13.266	38.797	1.54	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	4.265	14.019	ND	ND	
Cannabinolic Acid (CBNA)	2.442	8.029	ND	ND	
Cannabinol (CBN)	1.117	3.672	ND	ND	
Cannabigerolic acid (CBGA)	3.580	11.768	ND	ND	
Cannabigerol (CBG)	0.856	2.815	3.235	0.13	
Tetrahydrocannabivarinic Acid (THCVA)	3.027	9.950	ND	ND	
Tetrahydrocannabivarin (THCV)	0.779	2.560	ND	ND	
Cannabidivarinic Acid (CBDVA)	1.724	5.676	ND	ND	
Cannabidivarin (CBDV)	0.953	3.137	ND	ND	
Cannabichromenic Acid (CBCA)	1.379	4.535	ND	ND	
Cannabichromene (CBC)	1.508	4.958	ND	ND	
Total Cannabinoids			42.032	1.67	
Total Potential THC**			ND	ND	
Total Potential CBD**			38.797	1.54	


 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: **21294-07** Test: **Pesticides** Reported: **11/2/21**


Matrix: Concentrate Test ID: T000172346 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			

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

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

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APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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PJOBBL


Batch ID or Lot Number: 21294-07	Test: Microbial Contaminants	Reported: 11/5/21	
Matrix: Finished Product	Test ID: T000173013	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
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	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: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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PJOBBL


Batch ID or Lot Number: **21294-07** Test: **Metals** Reported: **11/3/21**


Matrix: Test ID: Started: USDA License:
 Unit Co T000172348 11/2/21 N/A

Status: Method: Received: Sampler ID:
 N/A TM19 (ICP-MS): Heavy Metals 10/28/2021 @ 10:41 AM N/A
 (Colorado Panel)

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

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APPROVED BY / DATE

Definitions

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

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PJOBBL


Batch ID or Lot Number: 21294-07	Test: Mycotoxins	Reported: 11/2/21	
Matrix: Concentrate	Test ID: T000172350	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	4.3 - 122.3	ND	N/A
Aflatoxin B1	1.1 - 31.3	ND	
Aflatoxin B2	0.9 - 32.1	ND	
Aflatoxin G1	1.2 - 31.9	ND	
Aflatoxin G2	1.1 - 29.8	ND	
Total Aflatoxins (B1, B2, G1, and G2)		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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PJOBBL

Batch ID or Lot Number: 21294-07	Test: Residual Solvents	Reported: 10/29/21	
Matrix: N/A	Test ID: T000172349	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
Propane	82 - 1633	*ND	
Butanes (Isobutane, n-Butane)	161 - 3227	*ND	
Methanol	61 - 1217	*ND	
Pentane	89 - 1771	*ND	
Ethanol	98 - 1950	*ND	
Acetone	96 - 1919	*ND	
Isopropyl Alcohol	103 - 2060	*ND	
Hexane	5 - 104	*ND	
Ethyl Acetate	98 - 1953	*ND	
Benzene	0.2 - 3.9	*ND	
Heptanes	92 - 1850	*ND	
Toluene	17 - 348	*ND	
Xylenes (m,p,o-Xylenes)	131 - 2613	*ND	


 Hannah Wright
 29-Oct-21
 5:53 PM

PREPARED BY / DATE


 Ryan Weems
 29-Oct-21
 5:55 PM

APPROVED BY / DATE

Definitions

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

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