

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME: PRODUCT** \*Certified Organic Full Spectrum CBD Lube and Body Oil  
**STRENGTH:** 500 mg per bottle  
**MESSAGE OIL BATCH:** 22055A  
**BEST BY DATE:** 8/24/2023  
**HEMP EXTRACT LOT:** C1123-002

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

### Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber.	PASS
Odor	Internal	Characteristic - Olive and Hemp.	PASS
Appearance	Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact.	PASS
Secondary Package Eval.	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*: $\geq$ product strength mg / bottle	<b>562.15 mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: $<0.3\%$ total THC (Full spectrum)	<b>ND</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 gram**	<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 $10^2$ CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ $10^2$ CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ $10^3$ CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals</b>	ICP-MS	Arsenic (As): $\leq 1.5$ ppm† Cadmium (Cd): $\leq 0.5$ ppm Lead (Pb): $\leq 0.5$ ppm Mercury (Hg): $\leq 1.5$ ppm	<b>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins $<20$ ppb†† Aflatoxin B1 $<20$ ppb Ochratoxin $<20$ ppb	<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:  
 $10^2=100$   
 $10^3=1,000$

Quality Certified

*Cody Elbrader*

03/02/2022

Cody Elbrader  
 Quality Assurance Technician


Date

**27865**


Batch ID or Lot Number: <b>C1123-002</b>	Test: <b>Potency</b>	Reported: <b>12/1/21</b>	
Matrix: Solution	Test ID: T000178522	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Full Spectrum Analysis, 0.3% THC (Colorado Panel)	Received: 11/24/2021 @ 10:01 AM	Sampler ID: N/A

## CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.163	0.470	ND	ND	Density = 0.945g/mL
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.184	0.530	ND	ND	
Cannabidiolic acid (CBDA)	0.181	0.541	ND	ND	
Cannabidiol (CBD)	0.176	0.527	4.764	5.04	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.202	0.584	ND	ND	
Cannabinolic Acid (CBNA)	0.116	0.334	ND	ND	
Cannabinol (CBN)	0.053	0.153	ND	ND	
Cannabigerolic acid (CBGA)	0.170	0.490	ND	ND	
Cannabigerol (CBG)	0.041	0.117	0.379	0.40	
Tetrahydrocannabivarinic Acid (THCVA)	0.143	0.415	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.107	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.075	0.226	ND	ND	
Cannabidivarin (CBDV)	0.042	0.125	ND	ND	
Cannabichromenic Acid (CBCA)	0.065	0.189	ND	ND	
Cannabichromene (CBC)	0.072	0.207	ND	ND	
<b>Total Cannabinoids</b>			<b>5.143</b>	<b>5.44</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			4.764	5.04	



Jacob Miller  
01-Dec-2021  
03:51 PM



Ryan Weems  
1-Dec-21  
3:52 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

**27865**


 Batch ID or Lot Number: **C1123-002**      Test: **Pesticides**      Reported: **12/2/21**

Matrix: Concentrate      Test ID: t000178523      Started: 12/1/21      USDA License: N/A

Status: N/A      Method: TM17(LC-QQQ LC MS/MS):      Received: 11/24/2021 @ 10:01 AM      Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	Fenoxycarb	43	ND	Paclobutrazol	48	ND
Acetamiprid	41	ND	Fipronil	50	ND	Permethrin	284	ND
Avermectin	339	ND	Flonicamid	48	ND	Phosmet	39	ND
Azoxystrobin	46	ND	Fludioxonil	316	ND	Prophos	312	ND
Bifenazate	41	ND	Hexythiazox	39	ND	Propoxur	44	ND
Boscalid	36	ND	Imazalil	283	ND	Pyridaben	290	ND
Carbaryl	41	ND	Imidacloprid	50	ND	Spinosad A	35	ND
Carbofuran	44	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	67	ND	Malathion	302	ND	Spiromesifen	290	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	290	ND
Clofentezine	293	ND	Methiocarb	43	ND	Spiroxamine 1	19	ND
Diazinon	284	ND	Methomyl	42	ND	Spiroxamine 2	24	ND
Dichlorvos	293	ND	MGK 264 1	203	ND	Tebuconazole	306	ND
Dimethoate	42	ND	MGK 264 2	123	ND	Thiacloprid	41	ND
E-Fenpyroximate	280	ND	Myclobutanil	42	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	47	ND	Trifloxystrobin	44	ND
Etoxazole	304	ND	Oxamyl	1500	ND			


 Karen Winternheimer  
 12/2/2021  
 3:50:00 PM

PREPARED BY / DATE


 Sam Smith  
 12/2/2021  
 3:57:00 PM

APPROVED BY / DATE

**Definitions**

 LOQ = Limit of Quantification  
 ppb = Parts per Billion

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**LUB500**

Batch ID or Lot Number: <b>22055A</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>2/28/22</b>	
Matrix: Finished Product	Test ID: T000195244	Started: 2/25/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 02/25/2022 @ 10:07 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>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	

  
 Jackson Osaghae-Nosa  
 2/28/2022  
 3:15:00 PM

  
 Brianne Maillot  
 2/28/2022  
 4:47:00 PM

PREPARED BY / DATE

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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**27865**

Batch ID or Lot Number: <b>C1123-002</b>	Test: <b>Metals</b>	Reported: <b>12/1/21</b>	
Matrix: Unit Co	Test ID: T000178525	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 11/24/2021 @ 10:01 AM	Sampler ID: N/A

### HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.63	ND	
Cadmium	0.045 - 4.47	ND	
Mercury	0.044 - 4.42	ND	
Lead	0.044 - 4.42	ND	

 Ryan Weems  
1-Dec-21  
3:19 PM

PREPARED BY / DATE

 Sam Smith  
1-Dec-21  
3:22 PM

APPROVED BY / DATE

#### Definitions

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

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**27865**

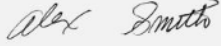
Batch ID or Lot Number: <b>C1123-002</b>	Test: <b>Mycotoxins</b>	Reported: <b>12/2/21</b>	
Matrix: Concentrate	Test ID: T000178527	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 11/24/2021 @ 10:01 AM	Sampler ID: N/A

### MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.5 - 136.1	ND	N/A
Aflatoxin B1	1.2 - 34.4	ND	
Aflatoxin B2	1.1 - 34.4	ND	
Aflatoxin G1	0.9 - 33.4	ND	
Aflatoxin G2	1.2 - 32.8	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
 Sam Smith  
 2-Dec-21  
 8:57 AM

PREPARED BY / DATE

  
 Alex Smith  
 2-Dec-21  
 12:20 PM

APPROVED BY / DATE

#### Definitions

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

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**27865**

Batch ID or Lot Number: <b>C1123-002</b>	Test: <b>Residual Solvents</b>	Reported: <b>11/30/21</b>	
Matrix: N/A	Test ID: T000178526	Started: 11/30/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 11/24/2021 @ 10:01 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	96 - 1916	*ND	
Butanes (Isobutane, n-Butane)	190 - 3792	*ND	
Methanol	56 - 1125	*ND	
Pentane	78 - 1560	*ND	
Ethanol	80 - 1593	*ND	
Acetone	92 - 1839	*ND	
Isopropyl Alcohol	96 - 1917	*ND	
Hexane	6 - 111	*ND	
Ethyl Acetate	92 - 1843	*ND	
Benzene	0.2 - 3.7	*ND	
Heptanes	87 - 1736	*ND	
Toluene	17 - 335	*ND	
Xylenes (m,p,o-Xylenes)	121 - 2416	*ND	


 Daniel Weidensaul  
 30-Nov-21  
 7:54 PM

PREPARED BY / DATE


 Ryan Weems  
 30-Nov-21  
 8:02 PM

APPROVED BY / DATE

**Definitions**

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

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