CERTIFICATE OF ANALYSIS

PRODUCT NAME:
PRODUCT STRENGTH:
TINCTURE BATCH:
BEST BY DATE:
HEMP EXTRACT LOT:

Full Spectrum CBD Massage and Body Oil500 mg per bottle21357A11/2023C1123/223

Click on the links to view third-party reports *Physical Atttributes*

		Oracification	
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
Potency - Total CBD	HPLC-UV DAD	LOQ*: ≥ product strength mg / bottle	577.8'a [PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	ND	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 gram**	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†† Afltoxin B1 < 42 ppb Ochratoxin < 42 ppb	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

Keegan Schlittler Quality Certified Keegan Schlittler

01/04/2022

Values expressed in scientific notation. Examples: 10^2=100 10^3=1,000

Quality Assurance Manager

Date



Batch ID or Lot Number:	Test:	Reported:	
C1123-001	Potency	12/1/21	
Matrix:	Test ID:	Started:	USDA License:
Solution	T000178516	11/30/21	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)	Notos
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.166	0.478	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.187	0.540	ND	ND	Density = 0.945g/mL
Cannabidiolic acid (CBDA)	0.184	0.550	ND	ND	
Cannabidiol (CBD)	0.179	0.537	4.897	5.18	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.206	0.595	ND	ND	
Cannabinolic Acid (CBNA)	0.118	0.341	ND	ND	
Cannabinol (CBN)	0.054	0.156	ND	ND	
Cannabigerolic acid (CBGA)	0.173	0.499	ND	ND	
Cannabigerol (CBG)	0.041	0.119	0.325	0.34	
Tetrahydrocannabivarinic Acid (THCVA)	0.146	0.422	ND	ND	
Tetrahydrocannabivarin (THCV)	0.038	0.109	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.077	0.230	ND	ND	
Cannabidivarin (CBDV)	0.042	0.127	ND	ND	
Cannabichromenic Acid (CBCA)	0.067	0.192	ND	ND	
Cannabichromene (CBC)	0.073	0.210	ND	ND	
Total Cannabinoids			5.222	5.53	
Total Potential THC**			ND	ND	
Total Potential CBD**			4.897	5.18	

01-Dec-2021 03:51 PM

Mym Neus

APPROVED BY / DATE

Ryan Weems

1-Dec-21 3:52 PM

PREPARED BY / DATE

Definitions

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

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

Jacob Miller

** Total Potential THC/CBD 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)) and

Total CBD = CBD + (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.







Batch ID or Lot Number:	Test:	Reported:	
C1123-001	Pesticides	12/2/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000178517	12/1/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/24/2021 @ 10:01 AM	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			

Winternheimer

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

Samantha Small

APPROVED BY / DATE

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

PREPARED BY / DATE

Definitions LOQ = Limit of Quantification ppb = Parts per Billion

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.





LUB500

Batch ID or Lot Number: 21357A	^{Test:} Microbial Contaminants	Reported: 1/3/22	
Matrix: Finished Product	Test ID: T000184740	Started: 12/28/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/27/2021 @ 11:04 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

			•	Result	Notes
M-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	Free from visual mold,
M-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
M-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
ľ	M-27, Culture Plating M-24, Culture Plating TM-25, PCR	M-27, Culture Plating 10^1 CFU/g M-24, Culture Plating 10^1 CFU/g TM-25, PCR 1 CFU/25 g	M-27, Culture Plating 10^1 CFU/g 10^2 CFU/g M-24, Culture Plating 10^1 CFU/g 10^2 CFU/g TM-25, PCR 1 CFU/25 g NA	M-27, Culture Plating 10^1 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g M-24, Culture Plating 10^1 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g TM-25, PCR 1 CFU/25 g NA NA	M-27, Culture Plating10^1 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedM-24, Culture Plating10^1 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedTM-25, PCR1 CFU/25 gNANAAbsent

fun agu-Am

Jackson Osaghae-Nosa 12/31/2021 12:26:00 PM

APPROVED BY / DATE

Sarah Henning 1/3/2022 9:30:00 AM

PREPARED 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:*

10^2 = 100 CFU 10^3 = 1,000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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.



Certificate #4329.02

Botanacor Laboratories™, All Rights Reserved | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com



Batch ID or Lot Number:	Test:	Reported:	
C1123-001	Metals	12/1/21	
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000178519	11/30/21	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

Arsenic 0.046 - 4.63 ND Cadmium 0.045 - 4.47 ND Mercury 0.044 - 4.42 ND Lead 0.044 - 4.42 ND #gm/lend 1.Dec-21 3:19 PM Sam Smith 1-Dec-21 3:22 PM	Compour	nd	Dynamic Range (ppm	i) Re	sult (ppm)	Notes
Mercury 0.044 - 4.42 ND Lead 0.044 - 4.42 ND #Jon Mems Sam Smith 1-Dec-21 3:19 PM	Arsenic		0.046 - 4.63		ND	
Lead 0.044 - 4.42 ND March Meems 1-Dec-21 3:19 PM Sam Smith 1-Dec-21 3:19 PM Samartha Smrub	Cadmium		0.045 - 4.47		ND	
Myn News Ryan Weems 1-Dec-21 3:19 PM Samantha Smd Sam Smith 1-Dec-21 3:22 PM	Mercury		0.044 - 4.42		ND	
Mym. Heurs1-Dec-21Germantha Smith1-Dec-213:19 PM3:22 PM	Lead		0.044 - 4.42		ND	
Myon News1-Dec-21Garwanthe Smith1-Dec-213:19 PM3:22 PM		Rvan Weems			Sam Smith	
	Plyon Neuro	1-Dec-21	Gama	nthe Small	1-Dec-21	
PREPARED BY / DATE APPROVED BY / DATE	PREPARED BY / DATE		APPRO	VED BY / DATE		

Definitions

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.





Batch ID or Lot Number:	^{Test:}	Reported:	
C1123-001	Mycotoxins	12/2/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000178521	11/30/21	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	Dynam	nic Range (ppb)	Result (ppb)	Notes
Ochratoxin A		2.5 - 136.7	ND	N/A
Aflatoxin B1		1.2 - 34.5	ND	
Aflatoxin B2		1.1 - 34.5	ND	
Aflatoxin G1		0.9 - 33.5	ND	
Aflatoxin G2		1.2 - 32.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)			ND	
Samanthe Small	Sam Smith 2-Dec-21 8:57 AM	alex	Alex Smith Smith 2-Dec-21 12:20 PM	ı

Definitions

LLC.

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,



Batch ID or Lot Number: C1123-001	^{Test:} Residual Solvents	Reported: 11/30/21		
Matrix: N/A	Test ID: T000178520	Started: 11/30/21	USDA License: N/A	
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ts 11/24/2021 @ 10:01 AM	Sampler ID: N/A	

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	98 - 1960	*ND	-
Butanes (Isobutane, n-Butane)	194 - 3878	*ND	
Methanol	58 - 1150	*ND	
Pentane	80 - 1595	*ND	
Ethanol	81 - 1629	*ND	
Acetone	94 - 1880	*ND	
Isopropyl Alcohol	98 - 1961	*ND	
Hexane	6 - 114	*ND	
Ethyl Acetate	94 - 1884	*ND	
Benzene	0.2 - 3.8	*ND	
Heptanes	89 - 1775	*ND	
Toluene	17 - 343	*ND	
Xylenes (m,p,o-Xylenes)	124 - 2471	*ND	

Daniel Wartonaul

Daniel Weidensaul 30-Nov-21 7:54 PM

PREPARED BY / DATE

APPROVED BY / DATE

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

thejon Veus

Ryan Weems 30-Nov-21 8:02 PM

Definitions

Laboratories, LLC.

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



CDPHE Certified

