CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBG + CBD Tincture - Mint **PRODUCT NAME:**

PRODUCT STRENGTH: 450mg CBG + 450mg CBD

TINCTURE BATCH: 230130B**BEST BY DATE:** 1/30/2025 BH-8672-24 **HEMP EXTRACT LOT:**

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive and Hemp, Tropical	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	450mg product strength mg / bottle	471mg	PASS
Potency - Total CBG	HPLC-UV DAD	450mg product strength mg / bottle	476mg	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 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

*Only applies to products with labels claiming certified organic **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

2/21/2023

Date



CERTIFICATE OF ANALYSIS

400mg CBD: 400mg CBG Tincture

Batch ID or Lot Number: 230103B	Test: Potency	Reported: 09Sep2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000220549	07Sep2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	07Sep2022	Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabichromene (CBC)	0.018	0.053	0.090	0.90
Cannabichromenic Acid (CBCA)	0.016	0.049	ND	ND
Cannabidiol (CBD)	0.051	0.142	1.656	16.56
Cannabidiolic Acid (CBDA)	0.052	0.145	ND	ND
Cannabidivarin (CBDV)	0.012	0.033	ND	ND
Cannabidivarinic Acid (CBDVA)	0.022	0.061	ND	ND
Cannabigerol (CBG)	0.010	0.030	1.673	16.73
Cannabigerolic Acid (CBGA)	0.042	0.126	ND	ND
Cannabinol (CBN)	0.013	0.039	ND	ND
Cannabinolic Acid (CBNA)	0.028	0.086	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.049	0.151	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.045	0.137	0.068	0.68
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.040	0.121	ND	ND
Tetrahydrocannabivarin (THCV)	0.009	0.027	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.035	0.107	ND	ND
Total Cannabinoids			3.487	34.87
Total Potential THC			0.068	0.68
Total Potential CBD			1.656	16.56

Final Approval



Karen Winternheimer 09Sep2022 02:31:00 PM MDT APPROVED BY / DATE

Jacob Miller 09Sep2022 02:44:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/54c8b603-4a45-45ad-89bc-03bfe534d592

Definitions

% = % (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)).

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.





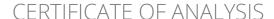






Cert #4329.02

CDPHE Certified 54c8b6034a4545ad89bc03bfe534d592.1





Batch ID or Lot Number: 230130B	Test: Residual Solvents	Reported: 10/7/22		
Matrix:	Test ID:	Started:	USDA License:	
N/A	T000223742	10/7/22	N/A	
Status:	Methods:	Received:	Sampler ID:	
Active	TM04 (GC-MS): Residual Solver	ats 10/06/2022 @ 09:02 AM	N/A	

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	96 - 1917	*ND	
Butanes (Isobutane, n-Butane)	201 - 4013	*ND	
Methanol	68 - 1368	*ND	
Pentane	106 - 2127	*ND	
Ethanol	106 - 2126	*ND	
Acetone	108 - 2162	*ND	
Isopropyl Alcohol	111 - 2221	*ND	
Hexane	6 - 130	*ND	
Ethyl Acetate	107 - 2141	*ND	
Benzene	0.2 - 4.4	*ND	
Heptanes	111 - 2223	*ND	
Toluene	20 - 395	*ND	
Xylenes	145 - 2895	*ND	
(m,p,o-Xylenes)	145 - 2895	"ND	

Samantha Small

Sam Smith 7-Oct-22 3:52 PM

L Winternheimer

Karen Winternheimer 7-Oct-22 3:56 PM

PREPARED BY / DATE APPROVED BY / DATE

Definitions

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



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Batch ID or Lot Number: Reported: Test: 230130B **Pesticides** 10/9/22 Test ID: **USDA License:** Matrix: Started: T000223739 10/7/22 Concentrate N/A Method: Sampler ID: Status: Received: 10/06/2022 @ 09:02 AM N/A TM17(LC-QQQ LC MS/MS): N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	50	ND	Paclobutrazol	47	ND
Acetamiprid	42	ND	Fipronil	73	ND	Permethrin	308	ND
Abamectin	343	ND	Flonicamid	53	ND	Phosmet	48	ND
Azoxystrobin	50	ND	Fludioxonil	293	ND	Prophos	280	ND
Bifenazate	46	ND	Hexythiazox	42	ND	Propoxur	44	ND
Boscalid	47	ND	Imazalil	248	ND	Pyridaben	287	ND
Carbaryl	41	ND	Imidacloprid	51	ND	Spinosad A	43	ND
Carbofuran	44	ND	Kresoxim-methyl	150	ND	Spinosad D	51	ND
Chlorantraniliprole	47	ND	Malathion	287	ND	Spiromesifen	249	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	296	ND
Clofentezine	310	ND	Methiocarb	41	ND	Spiroxamine 1	17	ND
Diazinon	293	ND	Methomyl	37	ND	Spiroxamine 2	23	ND
Dichlorvos	273	ND	MGK 264 1	194	ND	Tebuconazole	292	ND
Dimethoate	41	ND	MGK 264 2	118	ND	Thiacloprid	42	ND
E-Fenpyroximate	288	ND	Myclobutanil	47	ND	Thiamethoxam	41	ND
Etofenprox	49	ND	Naled	55	ND	Trifloxystrobin	53	ND
Etoxazole	291	ND	Oxamyl	1500	ND			

Samantha Smoll

Sam Smith 10/9/2022 7:15:00 PM

L Winternheimer

Karen Winternheimer 10/9/2022 7:19:00 PM

PREPARED BY / DATE

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Batch ID or Lot Number: Reported: 230130B

Mycotoxins 10/21/22

Test ID: Started: **USDA License:** Matrix:

Concentrate T000223743 10/19/22 N/A

Status: Method: Received: Sampler ID:

TM18 (UHPLC-QQQ LCMS/MS): 10/06/2022 @ 09:02 AM N/A

Mycotoxins

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	1.4 - 132.1	ND	N/A	
Aflatoxin B1	1 - 33.7	ND		
Aflatoxin B2	2.6 - 33.1	ND		
Aflatoxin G1	1.1 - 33.4	ND		
Aflatoxin G2	1.3 - 33.2	ND		
Total Aflatoxins (B1, B2, G1, and G2)		ND		

Samantha Small

Sam Smith 21-Oct-22 10:29 AM

PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 21-Oct-22 10:31 AM

Definitions

Active

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

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Certificate #4329.02



CERTIFICATE OF ANALYSIS

400mg CBD: 400mg CBG Tincture

Batch ID or Lot Number: 230130B	Test: Metals	Reported: 10/10/22		
Matrix:	Test ID:	Started:	USDA License:	
Concentrate Co	T000223741	10/10/22	N/A	
Status:	Method:	Received:	Sampler ID:	
Active	TM19 (ICP-MS): Heavy Metals	10/06/2022 @ 09:02 AM	N/A	

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	N
Arsenic	0.043 - 4.29	ND	
Cadmium	0.046 - 4.58	ND	
Mercury	0.046 - 4.60	ND	
Lead	0.043 - 4.30	ND	

Samantha Smill

PREPARED BY / DATE

Sam Smith 10-Oct-22 4:45 PM

4.45 PIVI

L Winternheimer

Karen Winternheimer 10-Oct-22 4:52 PM

APPROVED 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: 230130B	Test: Microbial Contaminants	Reported: 12Sep2022	USDA License: N/A		
Matrix:	Test ID:	Started:	Sampler ID:		
Finished Product	T000220763	08Sep2022	N/A		
	Method(s):	Received:	Status:		
	TM25 (qPCR) TM24, TM26, TM27	07Sep2022	Active		
	(Culture Plating): Microbial (Colorado				
	Panel)				

Microbial			Quantitation			
Contaminants	Method	LOD	Range	Result	Notes	
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter	
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	— Toreign matter	
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



Brianne Maillot 11Sep2022 04:02:00 PM MDT

10000150 01/10 175

Brett Hudson 12Sep2022 09:52:00 AM MDT



PREPARED BY / DATE

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8b4c1c59-026b-4d58-b8d4-e71dff5e3aa2

Definitions

* 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

CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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.











Cert #4329.02

CDPHE Certified 8b4c1c59026b4d58b8d4e71dff5e3aa2.1