# **CERTIFICATE OF ANALYSIS**

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

Organic Full Spectrum CBD Tincture - Tropical

2250mg 230424D 4/24/2025 221707B- LD-0-00108

#### Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut 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	LOQ**: ≥ product strength mg / bottle	2625mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC product strength mg / bottle	80mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram***	Absent	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
<b>Microbial</b> 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
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
*Only applies to products with labels clain certified organic **Level of Quantification **Colony Forming Units per Gram	ning	Quality Certified Name	hA	) 5/2/2025

Name

\*\*\*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

Date



Batch ID or Lot Number:	Test:	Reported:	USDA License:
230424D	<b>Potency</b>	10Dec2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000230175	08Dec2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 08Dec2022	Status: Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	<b>Result</b> (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.022	0.362	3.62	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabidiol (CBD)	0.019	0.060	8.939	89.39	
Cannabidiolic Acid (CBDA)	0.019	0.062	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarin (CBDV)	0.004	0.014	0.065	0.65	
Cannabidivarinic Acid (CBDVA)	0.008	0.026	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.199	1.99	
Cannabigerolic Acid (CBGA)	0.015	0.053	ND	ND	
Cannabinol (CBN)	0.005	0.017	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabinolic Acid (CBNA)	0.010	0.036	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.018	0.063	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.057	0.272	2.72	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.051	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.012	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.045	ND	ND	
Total Cannabinoids			9.837	98.37	
Total Potential THC			0.272	2.72	
Total Potential CBD			8.939	89.39	

### **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 10Dec2022 01:35:00 PM MST

amantha

Sam Smith 10Dec2022 01:37:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/b49eda96-a82f-4995-a76c-aef3517b9fce

#### 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.



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Batch ID or Lot Number: 230424D	Test: <b>Microbial Cont</b> a	Test: <b>Microbial Contaminants</b>			USDA License: N/A	
Matrix:	Test ID:	Test ID:			Sampler ID:	
Finished Product	T000242578		27Apr2023		N/A	
	Method(s):		Received:		Status:	
	TM25 (qPCR) TM (Culture Plating) Panel)	24, TM26, TM27 : Microbial (Colorado	27Apr2023		Active	
Microbial			0			
Contaminants	Method	LOD	Quantitation Range	Result	Notes	
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and — foreign matter	
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent		
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected		
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected		
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	_	

### **Final Approval**

PREPARED BY / DATE

Kent Ver

Brett Hudson 01May2023 12:32:00 PM MDT

Eden Thompson

Eden Thompson-Wright 01May2023 04:46:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f03fe434-1bb4-4008-8e2f-53d73429ce5e

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:  $10^2 = 100 \text{ CFU}$ ,  $10^3 = 1,000 \text{ CFU}$ ,  $10^4 = 10,000 \text{ CFU}$ ,  $10^5 = 100,000 \text{ CFU}$ 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

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
230424D	Mycotoxins	21Oct2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000223802	19Oct2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS):	07Oct2022	Active
	Mycotoxins		
Mycotoxins	<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb)	Notes
Ochratoxin A	1.29 - 118.48	ND	N/A
Aflatoxin B1	0.85 - 30.17	ND	
Aflatoxin B2	2.29 - 29.70	ND	
Aflatoxin G1	0.97 - 29.91	ND	
Aflatoxin G2 1.18 - 29.79		ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

# **Final Approval**

Samantha Sma

Sam Smith 21Oct2022 10:29:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 10:31:00 AM MDT



https://results.botanacor.com/api/v1/coas/uuid/8ccc393e-3ea3-4eb0-90d5-8e4c9ec4fb5e

Definitions

PREPARED BY / DATE

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Batch ID: 230	424D	Test ID:	T000126131
Туре:	Concentrate	Submitted:	02/25/2021 @ 12:03 PM
Test:	Pesticides	Started:	2/25/2021
Method:	TM17	Reported:	3/1/2021

### PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	34 - 2468	ND*	Malathion	291 - 2468	ND*
Acetamiprid	40 - 2468	ND*	Metalaxyl	39 - 2468	ND*
Abamectin	>342	ND*	Methiocarb	38 - 2468	ND*
Azoxystrobin	42 - 2468	ND*	Methomyl	42 - 2468	ND*
Bifenazate	28 - 2468	ND*	MGK 264 1	160 - 2468	ND*
Boscalid	42 - 2468	ND*	MGK 264 2	101 - 2468	ND*
Carbaryl	38 - 2468	ND*	Myclobutanil	38 - 2468	ND*
Carbofuran	39 - 2468	ND*	Naled	41 - 2468	ND*
Chlorantraniliprole	37 - 2468	ND*	Oxamyl	38 - 2468	ND*
Chlorpyrifos	42 - 2468	ND*	Paclobutrazol	40 - 2468	ND*
Clofentezine	269 - 2468	ND*	Permethrin	269 - 2468	ND*
Diazinon	280 - 2468	ND*	Phosmet	41 - 2468	ND*
Dichlorvos	>286	ND*	Prophos	298 - 2468	ND*
Dimethoate	40 - 2468	ND*	Propoxur	38 - 2468	ND*
E-Fenpyroximate	279 - 2468	ND*	Pyridaben	281 - 2468	ND*
Etofenprox	41 - 2468	ND*	Spinosad A	30 - 2468	ND*
Etoxazole	289 - 2468	ND*	Spinosad D	76 - 2468	ND*
Fenoxycarb	>31	ND*	Spiromesifen	>273	ND*
Fipronil	38 - 2468	ND*	Spirotetramat	>299	ND*
Flonicamid	38 - 2468	ND*	Spiroxamine 1	17 - 2468	ND*
Fludioxonil	>286	ND*	Spiroxamine 2	22 - 2468	ND*
Hexythiazox	36 - 2468	ND*	Tebuconazole	285 - 2468	ND*
Imazalil	272 - 2468	ND*	Thiacloprid	42 - 2468	ND*
Imidacloprid	41 - 2468	ND*	Thiamethoxam	38 - 2468	ND*
Kresoxim-methyl	43 - 2468	ND*	Trifloxystrobin	40 - 2468	ND*

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

N/A

# **FINAL APPROVAL**

Tyler Wiese 1-Mar-2021 12:03 PM

Den Muton

APPROVED BY / DATE

Ben Minton 1-Mar-2021 1:06 PM

PREPARED BY / DATE

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Batch ID: 23	0424D	Test ID:	T000126134
Туре:	Concentrate	Submitted:	02/25/2021 @ 12:03 PM
Test:	Residual Solvents	Started:	3/2/2021
Method:	TM04	Reported:	3/2/2021

# **RESIDUAL SOLVENTS**

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	96 - 1911	*ND
Butanes (Isobutane, n-Butane)	178 - 3556	*ND
Methanol	53 - 1054	*ND
Pentane	91 - 1816	*ND
Ethanol	92 - 1838	*ND
Acetone	92 - 1849	*ND
Isopropyl Alcohol	97 - 1933	*ND
Hexane	6 - 116	*ND
Ethyl Acetate	96 - 1919	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	92 - 1838	*ND
Toluene	17 - 335	*ND
Xylenes (m,p,o-Xylenes)	118 - 2359	*ND

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

NOTES: N/A

11/71

# **FINAL** APPROVAL



Ryan Weems 2-Mar-2021 3:08 PM

Den Muton

Ben Minton 2-Mar-2021 6:32 PM

APPROVED BY / DATE

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Batch ID: 230	1424D	Test ID:	T000126133
Туре:	Concentrate	Submitted:	02/25/2021 @ 12:03 PM
Test:	Metals	Started:	3/2/2021
Method:	TM19	Reported:	3/3/2021

# HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.092 - 9.20	ND
Cadmium	0.095 - 9.53	ND
Mercury	0.095 - 9.55	ND
Lead	0.095 - 9.52	ND

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

# **FINAL APPROVAL**

Danuel Wantana

Daniel Weidensaul 3-Mar-2021 11:00 AM

Den Muton

APPROVED BY / DATE

Ben Minton 3-Mar-2021 12:36 PM

PREPARED BY / DATE

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