

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Tincture - Natural  
**PRODUCT STRENGTH:** 900mg  
**TINCTURE BATCH:** 230829A  
**BEST BY DATE:** 8/29/2025  
**HEMP EXTRACT LOT:** 230202F

### 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	*NLT (product strength) mg / bottle	<b>1066mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	<b>ND</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>ND</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 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals Panel</b>	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>ND</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>ND</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>ND</b>	PASS

\* Level of Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram  
 \*Nothing Less Than  
 10<sup>2</sup>=100 CFU  
 10<sup>3</sup>=1,000 CFU

Quality Certified

  
 \_\_\_\_\_  
 Name

9/22/2023


\_\_\_\_\_

### 900mg CBD Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 230829A	Test: <b>Potency</b>	Reported: <b>10Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000235005	Started: 09Feb2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 08Feb2023	Status: Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.021	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.007	0.019	ND	ND	
Cannabidiol (CBD)	0.017	0.057	3.864	38.64	
Cannabidiolic Acid (CBDA)	0.018	0.058	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.019	0.19	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.246	2.46	
Cannabigerolic Acid (CBGA)	0.017	0.049	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.034	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.059	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.053	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.042	ND	ND	
<b>Total Cannabinoids</b>			<b>4.129</b>	<b>41.29</b>	
Total Potential THC			ND	ND	
Total Potential CBD			3.864	38.64	

### Final Approval



Karen Winternheimer  
10Feb2023  
08:49:00 AM MST

PREPARED BY / DATE



Sam Smith  
10Feb2023  
09:17:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e4bb28cc-85f7-4980-8078-ea62742dbc32>

**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

e4bb28cc85f749808078ea62742dbc32.1

## 900mg CBD Broad Spectrum Tincture- Natural

Batch ID or Lot Number: <b>230829A</b>	Test: <b>Pesticides</b>	Reported: <b>10Feb2023</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000235006	Started: 08Feb2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 08Feb2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	358 - 2647	ND	Malathion	280 - 2717	ND
Acephate	42 - 2759	ND	Metalaxyl	46 - 2718	ND
Acetamiprid	43 - 2753	ND	Methiocarb	41 - 2688	ND
Azoxystrobin	44 - 2729	ND	Methomyl	43 - 2762	ND
Bifenazate	43 - 2722	ND	MGK 264 1	154 - 1645	ND
Boscalid	45 - 2744	ND	MGK 264 2	116 - 1140	ND
Carbaryl	43 - 2719	ND	Myclobutanil	45 - 2763	ND
Carbofuran	44 - 2734	ND	Naled	43 - 2762	ND
Chlorantraniliprole	43 - 2726	ND	Oxamyl	41 - 2766	ND
Chlorpyrifos	53 - 2824	ND	Pacllobutrazol	40 - 2726	ND
Clofentezine	275 - 2769	ND	Permethrin	313 - 2795	ND
Diazinon	292 - 2733	ND	Phosmet	44 - 2709	ND
Dichlorvos	275 - 2786	ND	Prophos	312 - 2672	ND
Dimethoate	41 - 2737	ND	Propoxur	41 - 2724	ND
E-Fenpyroximate	293 - 2797	ND	Pyridaben	313 - 2786	ND
Etofenprox	41 - 2790	ND	Spinosad A	35 - 2253	ND
Etoxazole	309 - 2762	ND	Spinosad D	52 - 508	ND
Fenoxycarb	47 - 2690	ND	Spiromesifen	292 - 2770	ND
Fipronil	56 - 2762	ND	Spirotetramat	274 - 2731	ND
Flonicamid	43 - 2825	ND	Spiroxamine 1	16 - 1206	ND
Fludioxonil	318 - 2756	ND	Spiroxamine 2	21 - 1539	ND
Hexythiazox	45 - 2799	ND	Tebuconazole	277 - 2724	ND
Imazalil	288 - 2739	ND	Thiacloprid	44 - 2774	ND
Imidacloprid	41 - 2755	ND	Thiamethoxam	42 - 2785	ND
Kresoxim-methyl	23 - 2807	ND	Trifloxystrobin	44 - 2758	ND

## Final Approval



Karen Winternheimer  
10Feb2023  
06:26:00 AM MST

PREPARED BY / DATE



Sam Smith  
10Feb2023  
06:29:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4fada679-bc8f-4e0b-9fa7-a0e79c523e30>

### Definitions

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

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  
4fada679bc8f4e0b9fa7a0e79c523e30.1

**900mg CBD Broad Spectrum Tincture- Natural**

Batch ID or Lot Number: 230829A	Test: <b>Residual Solvents</b>	Reported: <b>09Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000235009	Started: 08Feb2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 08Feb2023	Status: Active


Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2098	ND	
Butanes (Isobutane, n-Butane)	217 - 4346	ND	
Methanol	68 - 1351	ND	
Pentane	110 - 2196	ND	
Ethanol	113 - 2258	ND	
Acetone	109 - 2184	ND	
Isopropyl Alcohol	113 - 2268	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	110 - 2207	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	108 - 2165	ND	
Toluene	20 - 403	ND	
Xylenes (m,p,o-Xylenes)	152 - 3047	ND	

**Final Approval**



Karen Winternheimer  
09Feb2023  
07:32:00 AM MST

PREPARED BY / DATE



Sam Smith  
09Feb2023  
07:35:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/7521691a-e463-4625-88ca-1134035c1aa3>

**Definitions**

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

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


7521691ae463462588ca1134035c1aa3.1


**900mg CBD Broad Spectrum Tincture- Natural**

Batch ID or Lot Number: 230829A	Test: <b>Heavy Metals</b>	Reported: <b>15Feb2023</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000235008	Started: 10Feb2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 08Feb2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.06 - 5.87	ND	
Cadmium	0.06 - 5.98	ND	
Mercury	0.06 - 5.83	ND	
Lead	0.06 - 6.02	ND	

**Final Approval**

  
 Sam Smith  
 15Feb2023  
 09:39:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 15Feb2023  
 09:42:00 AM MST  
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/eb519af1-3e71-468f-b7ed-5e31ec7d6e5f>

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

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  
 eb519af13e71468fb7ed5e31ec7d6e5f.1

**900mg CBD Broad Spectrum Tincture- Natural**

Batch ID or Lot Number: 230829A	Test: <b>Microbial Contaminants</b>	Reported: <b>13Feb2023</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000235007	Started: 08Feb2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 08Feb2023	Status: Active

**Microbial Contaminants**

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
<i>Salmonella</i>	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**



Brett Hudson  
12Feb2023  
11:55:00 AM MST



Eden Thompson-Wright  
13Feb2023  
04:24:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/1d1eef77-8e4c-498e-a420-9efc2ca5098f>

**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<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  
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  
1d1eef778e4c498ea4209efc2ca5098f.1


### 900mg CBD Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 230829A	Test: <b>Mycotoxins</b>	Reported: <b>17Feb2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000235010	Started: 16Feb2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 08Feb2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.11 - 136.71	ND	N/A
Aflatoxin B1	0.59 - 33.50	ND	
Aflatoxin B2	0.62 - 33.47	ND	
Aflatoxin G1	0.59 - 33.93	ND	
Aflatoxin G2	0.65 - 34.06	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
 Sam Smith  
 17Feb2023  
 06:47:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 17Feb2023  
 06:51:00 AM MST  
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uiid/8adf24f2-34e6-44dd-8d1b-f89154be533c>

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

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  
8adf24f234e644dd8d1bf89154be533c.1