

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Tincture - Natural  
**PRODUCT STRENGTH:** 450mg  
**TINCTURE BATCH:** 250305B  
**BEST BY DATE:** 3/5/2027  
**HEMP EXTRACT LOT:** 250218F, 250304C & 250304D, O-1206-0129-FT-BSD

### 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>645mg</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† Afltoxin 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

3/20/2025

Date




## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

### TOTAL THC: **Not Detected**

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

### TOTAL CBD: **645.090 mg/unit**

Total CBD (CBD+0.877\*CBDA)

### TOTAL CANNABINOIDS: **690.540 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN

### TOTAL CBG: **43.410 mg/unit**

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: **ND**

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: **ND**

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: **2.040 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

## CANNABINOID TEST RESULTS - 02/21/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.8021	21.503	2.1503
CBG	0.002 / 0.006	±0.0702	1.447	0.1447
CBDV	0.002 / 0.012	±0.0028	0.068	0.0068
$\Delta^9$ -THC	0.002 / 0.014	N/A	ND	ND
$\Delta^8$ -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDA	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBC	0.003 / 0.010	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>23.018 mg/g</b>	<b>2.3018%</b>

## Unit Mass: 30 grams per Unit / Serving Size: 1 grams per Serving

$\Delta^9$ -THC per Unit	110 per-package limit	ND	PASS
$\Delta^9$ -THC per Serving		ND	PASS
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit		645.090 mg/unit	
CBD per Serving		21.503 mg/serving	
Total CBD per Unit		645.090 mg/unit	
Total CBD per Serving		21.503 mg/serving	
Sum of Cannabinoids per Unit		690.540 mg/unit	
Sum of Cannabinoids per Serving		23.018 mg/serving	
Total Cannabinoids per Unit		690.540 mg/unit	
Total Cannabinoids per Serving		23.018 mg/serving	

## DENSITY TEST RESULT

**0.8989 g/mL**

Tested 02/21/2025

**Method:** QSP 7870 - Sample Preparation

**Organic Tincture- 450mg - Natural**


Batch ID or Lot Number: 250305B	Test, Test ID and Methods: Various	Matrix: Concentrate
Reported: <b>03Feb2025</b>	Started: 31Jan2025	Received: 30Jan2025

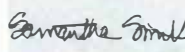
**Residual Solvents -  
Colorado Compliance**

Test ID: T000297931  
Methods: TM04 (GC-MS); Residual Solvents

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	83 - 1670	ND	
Butanes (Isobutane, n-Butane)	165 - 3308	ND	
Methanol	52 - 1035	ND	
Pentane	86 - 1710	ND	
Ethanol	90 - 1806	ND	
Acetone	91 - 1817	ND	
Isopropyl Alcohol	95 - 1900	ND	
Hexane	6 - 110	ND	
Ethyl Acetate	94 - 1872	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	89 - 1782	ND	
Toluene	17 - 331	ND	
Xylenes (m,p,o-Xylenes)	122 - 2430	ND	

**Final Approval**

  
Judith Marquez  
06Feb2025  
07:50:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
06Feb2025  
07:56:00 AM MST  
APPROVED BY / DATE

**Organic Tincture- 450mg - Natural**

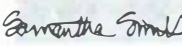
BatchID or Lot Number: 250305B	Test, Test ID and Methods: Various	Matrix: Concentrate
Reported: <b>03Feb2025</b>	Started: 31Jan2025	Received: 30Jan2025

**Pesticides**

Test ID: T000297928  
Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	381 - 2759	ND	Malathion	286 - 2743	ND
Acephate	34 - 2749	ND	Metalaxyl	38 - 2758	ND
Acetamiprid	42 - 2758	ND	Methiocarb	38 - 2785	ND
Azoxystrobin	42 - 2753	ND	Methomyl	40 - 2813	ND
Bifenazate	39 - 2790	ND	MGK 264 1	180 - 1624	ND
Boscalid	45 - 2734	ND	MGK 264 2	121 - 1060	ND
Carbaryl	39 - 2680	ND	Myclobutanil	38 - 2746	ND
Carbofuran	41 - 2706	ND	Naled	50 - 2647	ND
Chlorantraniliprole	40 - 2746	ND	Oxaryl	39 - 2825	ND
Chlorpyrifos	44 - 2701	ND	Paclitubtrazol	44 - 2652	ND
Clofentezine	280 - 2730	ND	Permethrin	274 - 2782	ND
Diazinon	287 - 2743	ND	Phosmet	39 - 2602	ND
Dichlorvos	283 - 2801	ND	Propfos	286 - 2745	ND
Dimethoate	42 - 2774	ND	Propoxur	41 - 2694	ND
E-Fenpyroximate	267 - 2835	ND	Pyridaben	275 - 2837	ND
Etofenprox	43 - 2749	ND	Spinosad A	32 - 2062	ND
Etoazole	272 - 2718	ND	Spinosad D	64 - 682	ND
Fenoxycarb	41 - 2722	ND	Spiromesifen	255 - 2820	ND
Fipronil	28 - 2719	ND	Spirotetramat	284 - 2765	ND
Fonicamid	44 - 2818	ND	Spiroxamine 1	14 - 1080	ND
Fludioxonil	279 - 2760	ND	Spiroxamine 2	23 - 1623	ND
Hexythiazox	40 - 2862	ND	Tebuconazole	308 - 2714	ND
Imazalil	282 - 2760	ND	Thiacloprid	42 - 2838	ND
Imidacloprid	39 - 2826	ND	Thiamethoxam	41 - 2821	ND
Kresoxim-methyl	40 - 2752	ND	Trifloxystrobin	45 - 2726	ND

**Final Approval**

  
 Sam Smith  
 07Feb2025  
 10:36:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 07Feb2025  
 10:38:00 AM MST  
 APPROVED BY / DATE

**Organic Tincture- 450mg - Natural**

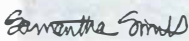
Batch ID or Lot Number: 250305B	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 6
Reported: <b>03Feb2025</b>	Started: 31Jan2025	Received: 30Jan2025	

**Mycotoxins - Colorado Compliance**

Test ID: T000297932  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.63 - 119.61	ND	N/A
Aflatoxin B1	1.02 - 30.28	ND	
Aflatoxin B2	1.04 - 29.76	ND	
Aflatoxin G1	1.04 - 30.28	ND	
Aflatoxin G2	1.07 - 30.68	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**

  
Sam Smith  
06Feb2025  
09:14:00 AM MST  
PREPARED BY / DATE


  
Karen Winternheimer  
06Feb2025  
09:16:00 AM MST  
APPROVED BY / DATE


**Heavy Metals - Colorado Compliance**

Test ID: T000297930  
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.25	ND	
Cadmium	0.04 - 4.27	ND	
Mercury	0.05 - 5.31	ND	
Lead	0.04 - 4.44	ND	

**Final Approval**

  
Judith Marquez  
04Feb2025  
01:35:00 PM MST  
PREPARED BY / DATE

  
Sam Smith  
04Feb2025  
01:38:00 PM MST  
APPROVED BY / DATE



## Microbiology Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIOLOGY TEST RESULTS (PCR) - 03/17/2025 ✔ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS

### MICROBIOLOGY TEST RESULTS (PLATING) - 03/17/2025 ND

COMPOUND	RESULT (cfu/g)
Coliforms	ND
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND