

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Tincture - Mint  
**PRODUCT STRENGTH:** 2250mg  
**TINCTURE BATCH:** 230307A  
**BEST BY DATE:** 03/07/2025  
**HEMP EXTRACT LOT:** 592

### Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive and Hemp, Minty	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	LOQ**: ≥ product strength mg / bottle	<b>2466mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	<b>Below LOQ</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</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</b>	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb†† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb	<b>Below LOQ</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	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<sup>2</sup>=100

10<sup>3</sup>=1,000

Quality Certified

  
 Name

3/29/2023

Date

## 2250mg BS Mint Tincture

Batch ID or Lot Number: <b>230307A</b>	Test: <b>Potency</b>	Reported: <b>01Mar2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000236826	Started: 27Feb2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 27Feb2023	Status: Active

### Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.023	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.007	0.021	ND	ND	
Cannabidiol (CBD)	0.022	0.062	8.300	83.00	
Cannabidiolic Acid (CBDA)	0.023	0.063	ND	ND	
Cannabidivarin (CBDV)	0.005	0.015	0.041	0.41	
Cannabidivarinic Acid (CBDVA)	0.009	0.026	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.571	5.71	
Cannabigerolic Acid (CBGA)	0.017	0.054	ND	ND	
Cannabinol (CBN)	0.005	0.017	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.037	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.065	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.059	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.052	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	0.019	0.19	
Tetrahydrocannabivarinic Acid (THCVA)	0.015	0.046	ND	ND	
<b>Total Cannabinoids</b>			<b>8.931</b>	<b>89.31</b>	
Total Potential THC			ND	ND	
Total Potential CBD			8.300	83.00	

### Final Approval



Karen Winternheimer  
01Mar2023  
08:25:00 AM MST

PREPARED BY / DATE



Sam Smith  
01Mar2023  
08:27:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/29fc63f9-d1af-4859-b172-2db9785f1c51>

#### 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  
29fc63f9d1af4859b1722db9785f1c51.1


## 2250mg BS Mint Tincture

Batch ID or Lot Number: <b>230307A</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>13Mar2023</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000237941	Started: 02Mar2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 09Mar2023	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



Eden Thompson-Wright  
13Mar2023  
03:55:00 PM MDT



Brett Hudson  
14Mar2023  
06:04:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/d9841f3d-e8cb-4a0a-8631-fcb7a9449501>

### 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

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**2250mg BS Mint Tincture**

Batch ID or Lot Number: 230307A	Test: <b>Heavy Metals</b>	Reported: <b>06Jan2023</b>	USDA License: NA
Matrix: Concentrate Co	Test ID: T000231987	Started: 05Jan2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 03Jan2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.33	ND	
Cadmium	0.05 - 4.61	ND	
Mercury	0.05 - 4.65	ND	
Lead	0.05 - 4.56	ND	

**Final Approval**

  
 Sam Smith  
 06Jan2023  
 08:57:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 06Jan2023  
 08:59:00 AM MST  
 APPROVED BY / DATE



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**Definitions**  
 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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**2250mg BS Mint Tincture**

Batch ID or Lot Number:230307A	Test: <b>Residual Solvents</b>	Reported: <b>09Jan2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000231988	Started: 09Jan2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 03Jan2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1811	ND	
Butanes (Isobutane, n-Butane)	181 - 3620	ND	
Methanol	57 - 1142	ND	
Pentane	93 - 1858	ND	
Ethanol	91 - 1821	ND	
Acetone	91 - 1821	ND	
Isopropyl Alcohol	93 - 1862	ND	
Hexane	6 - 113	ND	
Ethyl Acetate	93 - 1856	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1951	ND	
Toluene	17 - 331	ND	
Xylenes (m,p,o-Xylenes)	119 - 2386	ND	

**Final Approval**

  
 Sam Smith  
 09Jan2023  
 01:23:00 PM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 09Jan2023  
 01:24:00 PM MST  
 APPROVED BY / DATE



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**Definitions**  
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 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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**2250mg BS Mint Tincture**

Batch ID or Lot Number:230307A	Test: <b>Mycotoxins</b>	Reported: <b>11Jan2023</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000231989	Started: 10Jan2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 03Jan2023	Status: Active

<b>Mycotoxins</b>	<b>Dynamic Range (ppb)</b>	<b>Result (ppb)</b>	<b>Notes</b>
Ochratoxin A	4.79 - 131.77	ND	N/A
Aflatoxin B1	1.06 - 34.16	ND	
Aflatoxin B2	1.16 - 34.36	ND	
Aflatoxin G1	1.23 - 33.62	ND	
Aflatoxin G2	1.26 - 33.46	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**

  
 Sam Smith  
 11Jan2023  
 07:46:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 11Jan2023  
 07:48:00 AM MST  
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f979855f-6a86-4d94-935f-9a4647452e9a>

**Definitions**  
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 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

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Batch ID or Lot Number: 8%%) 3	Test: <b>Pesticides</b>	Reported: <b>09Jan2023</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000231985	Started: 06Jan2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 03Jan2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	302 - 2650	ND	Malathion	284 - 2755	ND
Acephate	49 - 2757	ND	Metalaxyl	46 - 2772	ND
Acetamiprid	48 - 2729	ND	Methiocarb	47 - 2798	ND
Azoxystrobin	44 - 2734	ND	Methomyl	50 - 2748	ND
Bifenazate	44 - 2723	ND	MGK 264 1	156 - 1626	ND
Boscalid	50 - 2802	ND	MGK 264 2	111 - 1135	ND
Carbaryl	44 - 2723	ND	Myclobutanil	44 - 2793	ND
Carbofuran	45 - 2737	ND	Naled	53 - 2755	ND
Chlorantraniliprole	44 - 2807	ND	Oxamyl	46 - 2717	ND
Chlorpyrifos	52 - 2797	ND	Pacllobutrazol	44 - 2723	ND
Clofentezine	268 - 2743	ND	Permethrin	301 - 2742	ND
Diazinon	275 - 2746	ND	Phosmet	43 - 2760	ND
Dichlorvos	289 - 2756	ND	Prophos	273 - 2796	ND
Dimethoate	46 - 2716	ND	Propoxur	43 - 2733	ND
E-Fenpyroximate	283 - 2727	ND	Pyridaben	295 - 2732	ND
Etofenprox	46 - 2715	ND	Spinosad A	35 - 2225	ND
Etoxazole	296 - 2717	ND	Spinosad D	47 - 495	ND
Fenoxycarb	46 - 2751	ND	Spiromesifen	280 - 2759	ND
Fipronil	64 - 2672	ND	Spirotetramat	273 - 2764	ND
Flonicamid	56 - 2727	ND	Spiroxamine 1	20 - 1222	ND
Fludioxonil	276 - 2738	ND	Spiroxamine 2	26 - 1551	ND
Hexythiazox	44 - 2742	ND	Tebuconazole	280 - 2721	ND
Imazalil	264 - 2779	ND	Thiacloprid	46 - 2721	ND
Imidacloprid	51 - 2742	ND	Thiamethoxam	50 - 2750	ND
Kresoxim-methyl	41 - 2755	ND	Trifloxystrobin	44 - 2744	ND

## Final Approval

  
 Sam Smith  
 09Jan2023  
 12:08:00 PM MST

  
 Karen Winternheimer  
 09Jan2023  
 12:12:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

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### Definitions

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 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range  
 ppb = Parts Per Billion

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