

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Tincture - Orange  
**PRODUCT STRENGTH:** 900mg  
**TINCTURE BATCH:** 241126A  
**BEST BY DATE:** 11/26/2026  
**HEMP EXTRACT LOT:** 660

## Physical Attributes


Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Lemon	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy 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>1011mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	<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 < 5 ppb	<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

12/9/2024

Date


## Organic Broad Spectrum 900mg CBD Tincture- Orange

Batch ID or Lot Number: 241126A	Test: <b>Potency</b>	Reported: <b>02Feb2024</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000268646	Started: 01Feb2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 30Jan2024	Status: Active

### Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.021	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabidiol (CBD)	0.028	0.070	3.403	34.03	
Cannabidiolic Acid (CBDA)	0.029	0.072	ND	ND	
Cannabidivarin (CBDV)	0.007	0.017	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.012	0.030	ND	ND	
Cannabigerol (CBG)	0.003	0.012	0.217	2.17	
Cannabigerolic Acid (CBGA)	0.014	0.049	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.033	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.017	0.058	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.053	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.041	ND	ND	
<b>Total Cannabinoids</b>			<b>3.620</b>	<b>36.20</b>	
Total Potential THC			<LOQ	<LOQ	
Total Potential CBD			3.403	34.03	

### Final Approval

  
Sam Smith  
02Feb2024  
09:39:00 AM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
02Feb2024  
09:42:00 AM MST  
APPROVED BY / DATE

Karen Winternheimer  
02Feb2024  
09:42:00 AM MST



<https://results.botanacor.com/api/v1/coas/uuid/e929ada2-a8b6-404b-a6e2-416b1ec96425>

**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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02



CDPHE Certified

e929ada2a8b6404ba6e2416b1ec96425.1

**Organic Broad Spectrum 900mg CBD Tincture- Orange**

Batch ID or Lot Number: <b>241126A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: <b>06Feb2024</b>	Started: 06Feb2024	Received: 05Feb2024	

**Residual Solvents -  
Colorado Compliance**

Test ID: T000269726

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	108 - 2161	ND	
Butanes (Isobutane, n-Butane)	207 - 4136	ND	
Methanol	64 - 1271	ND	
Pentane	97 - 1939	ND	
Ethanol	95 - 1890	ND	
Acetone	108 - 2153	ND	
Isopropyl Alcohol	104 - 2087	ND	
Hexane	7 - 136	ND	
Ethyl Acetate	109 - 2176	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	104 - 2082	ND	
Toluene	19 - 373	ND	
Xylenes (m,p,o-Xylenes)	122 - 2439	ND	

**Final Approval**



Karen Winternheimer  
06Feb2024  
01:38:00 PM MST

PREPARED BY / DATE



Sam Smith  
06Feb2024  
01:39:00 PM MST

APPROVED BY / DATE

## Organic Broad Spectrum 900mg CBD Tincture- Orange

Batch ID or Lot Number: <b>241126A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4
Reported: <b>06Feb2024</b>	Started: 06Feb2024	Received: 05Feb2024	

### Pesticides

Test ID: T000269723

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	322 - 2692	ND		Malathion	300 - 2685	ND
Acephate	40 - 2713	ND		Metalaxyl	43 - 2693	ND
Acetamiprid	42 - 2711	ND		Methiocarb	42 - 2675	ND
Azoxystrobin	46 - 2680	ND		Methomyl	41 - 2765	ND
Bifenazate	43 - 2700	ND		MGK 264 1	145 - 1627	ND
Boscalid	47 - 2707	ND		MGK 264 2	110 - 1097	ND
Carbaryl	42 - 2691	ND		Myclobutanil	50 - 2631	ND
Carbofuran	42 - 2677	ND		Naled	44 - 2668	ND
Chlorantraniliprole	48 - 2651	ND		Oxamyl	41 - 2770	ND
Chlorpyrifos	48 - 2744	ND		Paclobutrazol	45 - 2671	ND
Clofentezine	282 - 2731	ND		Permethrin	300 - 2757	ND
Diazinon	293 - 2717	ND		Phosmet	42 - 2585	ND
Dichlorvos	286 - 2745	ND		Prophos	289 - 2668	ND
Dimethoate	41 - 2702	ND		Propoxur	41 - 2692	ND
E-Fenpyroximate	222 - 2857	ND		Pyridaben	286 - 2731	ND
Etofenprox	44 - 2759	ND		Spinosad A	34 - 2091	ND
Etoxazole	292 - 2664	ND		Spinosad D	67 - 674	ND
Fenoxycarb	41 - 2669	ND		Spiromesifen	273 - 2744	ND
Fipronil	50 - 2773	ND		Spirotetramat	300 - 2772	ND
Flonicamid	41 - 2768	ND		Spiroxamine 1	16 - 1015	ND
Fludioxonil	278 - 2672	ND		Spiroxamine 2	22 - 1572	ND
Hexythiazox	42 - 2774	ND		Tebuconazole	290 - 2684	ND
Imazalil	278 - 2725	ND		Thiacloprid	42 - 2720	ND
Imidacloprid	40 - 2726	ND		Thiamethoxam	42 - 2744	ND
Kresoxim-methyl	43 - 2742	ND		Trifloxystrobin	44 - 2700	ND

### Final Approval



Karen Winterheimer  
07Feb2024  
08:52:00 AM MST

PREPARED BY / DATE



Sam Smith  
07Feb2024  
08:55:00 AM MST

APPROVED BY / DATE

**Organic Broad Spectrum 900mg CBD Tincture- Orange**

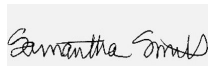
Batch ID or Lot Number: <b>241126A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: <b>06Feb2024</b>	Started: 06Feb2024	Received: 05Feb2024	

**Heavy Metals -  
Colorado Compliance**

Test ID: T000269725

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.47	ND	
Cadmium	0.05 - 4.51	ND	
Mercury	0.05 - 4.74	ND	
Lead	0.05 - 4.82	ND	

**Final Approval**Sam Smith  
09Feb2024  
01:45:00 PM MST

PREPARED BY / DATE



APPROVED BY / DATE

Karen Winternheimer  
12Feb2024  
11:24:00 AM MST<https://results.botanacor.com/api/v1/coas/uuid/eea88ac0-339c-40ac-8e94-a2c37cddb520>**Definitions**

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa \* (0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02

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**Organic Broad Spectrum 900mg CBD Tincture- AdS YW**

Batch ID or Lot Number: <b>SC# 3</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: <b>06Feb2024</b>	Started: 06Feb2024	Received: 05Feb2024	

**Mycotoxins - Colorado Compliance**

Test ID: T000269727

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	0.96 - 126.73	ND	N/A
Aflatoxin B1	1.02 - 32.79	ND	
Aflatoxin B2	0.96 - 33.15	ND	
Aflatoxin G1	1.02 - 33.05	ND	
Aflatoxin G2	1.12 - 32.95	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**



Karen Winterheimer  
08Feb2024  
10:39:00 AM MST

PREPARED BY / DATE



Sam Smith  
08Feb2024  
10:41:00 AM MST

APPROVED BY / DATE

**Microbial Contaminants - Colorado Compliance**

Test ID: T000269724

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial

(Colorado Panel)

	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**



Brett Hudson  
09Feb2024  
11:30:00 AM MST

PREPARED BY / DATE



Brianne Maillot  
09Feb2024  
12:57:00 PM MST

APPROVED BY / DATE