

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Tincture - Orange  
**PRODUCT STRENGTH:** 900mg  
**TINCTURE BATCH:** 230307D  
**BEST BY DATE:** 3/7/2025  
**HEMP EXTRACT LOT:** BCA-000445-220722

### Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp, Orange	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>983mg</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

3/29/2023

Date



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 22-008740/D002.R000  
**Report Date:** 08/01/2022  
**ORELAP#:** OR100028  
**Purchase Order:** 230307D  
  
**Received:** 07/25/22 10:24

**Product identity:** 900mg CBD Broad Spectrum Tincture in MCT - Orange  
**Client/Metric ID:** 230307D

**Summary**

**Potency:**

Analyte	Result (%)		
CBD	3.31		CBD-Total 3.31%
CBG	0.210		THC-Total <LOQ
CBT	0.0508		(Reported in percent of total sample)
CBDV	0.0196		

**Residual Solvents:**

All analytes passing and less than LOQ.

**Pesticides:**

All analytes passing and less than LOQ.

**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2206260	07/28/22 AOAC 990.12 (Petrifilm) <sup>b</sup>	pass	I
E.coli	< LOQ	100.00	cfu/g	10	2206258	07/28/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	pass	I
Total Coliforms	< LOQ	100.00	cfu/g	10	2206258	07/28/22 AOAC 991.14 (Petrifilm) <sup>b</sup>	pass	I
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206259	07/29/22 AOAC 2014.05 (RAPID) <sup>b</sup>	pass	I
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206259	07/29/22 AOAC 2014.05 (RAPID) <sup>b</sup>	pass	I
Salmonella spp. by PCR	Negative		/5g		2206261	07/27/22 AOAC 2020.02 <sup>b</sup>		I
EHEC including STEC	Negative		/5g		2206262	07/27/22 AOAC RI 121806 <sup>b</sup>		I

Solvents Method: Residual Solvents by GC/MS<sup>b</sup> Units µg/g Batch 2206333 Analyze 07/27/22 12:40 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
2-Methylbutane (Isopentane)	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass	
2-Propanol (IPA)	< LOQ	1000	200	pass		2,2-Dimethylbutane	< LOQ	60.0	30.0	pass	
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200	pass		2,3-Dimethylbutane	< LOQ	60.0	30.0	pass	
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone	< LOQ	1000	200	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass	
Ethanol	< LOQ	1000	200	pass		Ethyl acetate	< LOQ	1000	200	pass	
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass	
Methanol	< LOQ	600	200	pass		Methylpropane (Isobutane)	< LOQ	1000	200	pass	
n-Butane	< LOQ	1000	200	pass		n-Heptane	< LOQ	1000	200	pass	
n-Hexane	< LOQ	60.0	30.0	pass		n-Pentane	< LOQ	1000	200	pass	
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass	
Propane	< LOQ	1000	200	pass		Toluene	< LOQ	180	100	pass	
Total Xylenes	< LOQ	430	400	pass							

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Report Date: 08/01/2022  
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Purchase Order: 230307D  
Received: 07/25/22 10:24

Pesticides					Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2206282	Analyze 07/26/22 02:01 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Tebuconazole	< LOQ	0.010	0.010	pass		Tebufenozide	< LOQ	0.010	0.010	pass	
Teflubenzuron	< LOQ	0.025	0.025	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass	
Tetramethrin	< LOQ	0.10	0.050	pass		Thiacloprid	< LOQ	0.010	0.010	pass	
Thiamethoxam	< LOQ	0.010	0.010	pass		Thiophanate-Methyl	< LOQ	0.050	0.030	pass	
Trifloxystrobin	< LOQ	0.010	0.010	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	1.50	mg/kg	0.0908	2206371	07/27/22	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Cadmium	< LOQ	0.50	mg/kg	0.0908	2206371	07/27/22	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Lead	< LOQ	0.50	mg/kg	0.0908	2206371	07/27/22	AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Mercury	< LOQ	1.50	mg/kg	0.0454	2206371	07/27/22	AOAC 2013.06 (mod.) <sup>b</sup>	pass		

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Aflatoxin B2 <sup>y</sup>	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>	pass		
Aflatoxin B1 <sup>y</sup>	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>	pass		
Aflatoxin G1 <sup>y</sup>	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>	pass		
Aflatoxin G2 <sup>y</sup>	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>	pass		
Deoxynivalenol <sup>o</sup>	< LOQ		µg/kg	200	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
Fumonisin B1 <sup>y</sup>	< LOQ		µg/kg	200	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
Fumonisin B2 <sup>y</sup>	< LOQ		µg/kg	200	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
HT2-Toxin <sup>o</sup>	< LOQ		µg/kg	40.0	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
Ochratoxin A <sup>o</sup>	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>	pass		
Ochratoxin B <sup>o</sup>	< LOQ		µg/kg	2.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
T2-Toxin <sup>o</sup>	< LOQ		µg/kg	20.0	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			
Zearalenone <sup>o</sup>	< LOQ		µg/kg	200	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod.) <sup>b</sup>			


**900mg CBD Broad Spectrum Tincture in MCT - Orange**

Batch ID or Lot Number: <b>230307D</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>13Mar2023</b>	USDA License: N/A
Matrix: Finished Product	Test ID: T000238103	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/83099ef7-c703-4ec5-8926-695debae1cc0>

**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.



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