

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic CBD Tincture - Orange
PRODUCT STRENGTH: 900mg
TINCTURE BATCH: 230914A
BEST BY DATE: 9/14/2025
HEMP EXTRACT LOT: BCA-000445-220722

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Orange	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
Potency - Total CBD	HPLC-UV DAD	*NLT (product strength) mg / bottle	983mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ³ CFU/gram	Below LOQ	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS

* Level of Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram
 *Nothing Less Than
 10²=100 CFU
 10³=1,000 CFU

Quality Certified


 Name _____

10/18/2023

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: 230914A

Received: 07/25/22 10:24

Product identity: 900mg CBD Broad Spectrum Tincture in MCT - Orange
Client/Metric ID: 230914A

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) ^b	pass	I
E.coli	< LOQ	100.00	cfu/g	10	2206258	07/28/22 AOAC 991.14 (Petrifilm) ^b	pass	I
Total Coliforms	< LOQ	100.00	cfu/g	10	2206258	07/28/22 AOAC 991.14 (Petrifilm) ^b	pass	I
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206259	07/29/22 AOAC 2014.05 (RAPID) ^b	pass	I
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206259	07/29/22 AOAC 2014.05 (RAPID) ^b	pass	I
Salmonella spp. by PCR	Negative		/5g		2206261	07/27/22 AOAC 2020.02 ^b		I
EHEC including STEC	Negative		/5g		2206262	07/27/22 AOAC RI 121806 ^b		I

Solvents Method: Residual Solvents by GC/MS^b 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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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.) ^b	pass		
Cadmium	< LOQ	0.50	mg/kg	0.0908	2206371	07/27/22	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.50	mg/kg	0.0908	2206371	07/27/22	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	1.50	mg/kg	0.0454	2206371	07/27/22	AOAC 2013.06 (mod.) ^b	pass		

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

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OTL900

Batch ID or Lot Number: 230914A	Test: Microbial Contaminants	Reported: 21Sep2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000256252	Started: 18Sep2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 18Sep2023	Status: Active

Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brianne Maillot
21Sep2023
09:52:00 AM MDT



Brett Hudson
21Sep2023
10:47:00 AM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/582b9b6f-08ef-48a4-a893-66038d68dfb2>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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