# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: Organic Full Spectrum CBD Tincture - Tropical

2250mg CBD **PRODUCT STRENGTH: TINCTURE BATCH:** 220726A

6/9/2024 **BEST BY DATE:** 

**HEMP EXTRACT LOT:** BCA-000409-220624

## Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp, Tropical	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
Potency - Total CBD	HPLC-UV DAD	$LOQ^{**}$ : $\geq$ product strength $mg / bottle$	77.14mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	2.65mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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: 10^2=100 10^3=1,000

Quality Certified

8/5/22

Date





**Report Number:** 22-007617/D003.R000

**Report Date:** 07/07/2022 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 06/29/22 11:00

Product identity:

Client/Metrc ID: 2250mg 5G Full Spectrum Tincture Bulk lot# BCA-000409-220624.

**Laboratory ID:** 22-007617-0001

## **Summary**

Analyte	Result	Limits	Units	Status	CBD-Total per 1g	81.2 mg/1g			
CBC	0.0211		%						
CBD	8.12		%						
CBDV <sup>†</sup>	0.0360		%		THC-Total per 1g	2.79 mg/1g			
CBE <sup>†</sup>	0.0973		%		(Departed in milli				
CBG <sup>†</sup>	0.439		%		(Reported in milligrams per serving)				
CBL <sup>†</sup>	0.0145		%						
CBN	0.0227		%						
CBT <sup>†</sup>	0.345		%						
Δ9-THC	0.279		%						
Analyte per 1g	Result	Limits	Units	Status					
CBC per 1g <sup>†</sup>	0.211		mg/1g						
CBD per 1g	81.2		mg/1g						
CBDV per 1g <sup>†</sup>	0.360		mg/1g						
CBE per 1g <sup>†</sup>	0.973		mg/1g						
CBG per 1g <sup>†</sup>	4.39		mg/1g						
CBL per 1g <sup>†</sup>	0.145		mg/1g						
CBN per 1g	0.227		mg/1g						
CBT per 1g <sup>†</sup>	3.45		mg/1g						
Δ9-THC per 1g	2.79		mg/1g						

# **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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**Report Date:** 07/07/2022 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 06/29/22 11:00

Product identity: 2250mg 5G Full Spectrum Tincture Bulk lot# BCA-000409-220624.

Client/Metrc ID:

Sample Date: 22-007617-0001

Laboratory ID:NoEvidence of Cooling:26.2 °CTemp:UPSRelinquished by:1 g

Serving Size #1:

# **Sample Results**

Potency	Method: J AOAC 2015 V98	8-6 (mod)	Units %	<b>Batch:</b> 2205650	<b>Analyze:</b> 7/2/22 3:45:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0211		%	0.00321	
CBC-A <sup>†</sup>	< LOQ		%	0.00321	
CBC-Total <sup>†</sup>	0.0211		%	0.00603	
CBD	8.12		%	0.0321	
CBD-A	< LOQ		%	0.00321	
CBD-Total	8.12		%	0.0349	
CBDV <sup>†</sup>	0.0360		%	0.00321	
CBDV-A <sup>†</sup>	< LOQ		%	0.00321	
CBDV-Total <sup>†</sup>	0.0360		%	0.00600	
CBE <sup>†</sup>	0.0973		%	0.00321	
CBG <sup>†</sup>	0.439		%	0.00321	
CBG-A <sup>†</sup>	< LOQ		%	0.00321	
CBG-Total	0.439		%	0.00600	
CBL <sup>†</sup>	0.0145		%	0.00321	
CBL-A <sup>†</sup>	< LOQ		%	0.00321	
CBL-Total <sup>†</sup>	0.0145		%	0.00603	
CBN	0.0227		%	0.00321	
CBT <sup>†</sup>	0.345		%	0.00321	
Δ8-THCV	< LOQ		%	0.00321	
$\Delta 8$ -THC	< LOQ		%	0.00321	
Δ9-THC	0.279		%	0.00321	
exo-THC	< LOQ		%	0.00321	
THC-A	< LOQ		%	0.00321	
THC-Total	0.279		%	0.00603	
THCV <sup>†</sup>	< LOQ		%	0.00321	
THCV-A <sup>†</sup>	< LOQ		%	0.00321	
THCV-Total <sup>†</sup>	< LOQ		%	0.00600	
Total Cannabinoids <sup>†</sup>	9.37		%		

Potency per 1g	Method: J AOAC 2015 V98	3-6 (mod)	Units mg/se Bat	ch: 2205650	<b>Analyze:</b> 7/2/22 3:45:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes		
CBC per 1g <sup>†</sup>	0.211		mg/1g	0.0321			

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**Report Date:** ORELAP#:

22-007617/D003.R000

07/07/2022 OR100028

**Purchase Order:** 

**Report Number:** 

Received: 06/29/22 11:00



Potency per 1g	Method: J AOAC 2015 V	98-6 (mod)	Units mg/se Ba	tch: 2205650	<b>Analyze:</b> 7/2/22 3:45:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
CBC-Total per 1g <sup>†</sup>	0.211		mg/1g	0.0603	
CBD per 1g	81.2		mg/1g	0.321	
CBD-A per 1g	< LOQ		mg/1g	0.0321	
CBD-Total per 1g	81.2		mg/1g	0.349	
CBDV per 1g <sup>†</sup>	0.360		mg/1g	0.0321	
CBDV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
CBDV-Total per 1g <sup>†</sup>	0.360		mg/1g	0.0600	
CBE per 1g <sup>†</sup>	0.973		mg/1g	0.0321	
CBG per 1g <sup>†</sup>	4.39		mg/1g	0.0321	
CBG-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
CBG-Total per 1g <sup>†</sup>	4.39		mg/1g	0.0600	
CBL per 1g <sup>†</sup>	0.145		mg/1g	0.0321	
CBL-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
CBL-Total per 1g <sup>†</sup>	0.145		mg/1g	0.0603	
CBN per 1g	0.227		mg/1g	0.0321	
CBT per 1g <sup>†</sup>	3.45		mg/1g	0.0321	
$\Delta 8$ -THCV per 1g $^{\dagger}$	< LOQ		mg/1g	0.0321	
$\Delta 8$ -THC per 1g $^{\dagger}$	< LOQ		mg/1g	0.0321	
∆9-THC per 1g	2.79		mg/1g	0.0321	
exo-THC per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
THC-A per 1g	< LOQ		mg/1g	0.0321	
THC-Total per 1g	2.79		mg/1g	0.0603	
THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
THCV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.0321	
THCV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	0.0603	
Total Cannabinoids per 1g	93.7		mg/1g		

Microbiology									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000.00	cfu/g	10	2205548	07/02/22	AOAC 990.12 (Petrifilm)	pass	Χ
E.coli	< LOQ	100.00	cfu/g	10	2205546	07/02/22	AOAC 991.14 (Petrifilm)	pass	Χ
Total Coliforms	< LOQ	100.00	cfu/g	10	2205546	07/02/22	AOAC 991.14 (Petrifilm)	pass	Χ
Mold (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2205547	07/03/22	AOAC 2014.05 (RAPID)	pass	Χ
Yeast (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2205547	07/03/22	AOAC 2014.05 (RAPID)	pass	Χ
Salmonella spp. by PCR	Negative		/25g		2205551	07/01/22	AOAC 2020.02		Χ
EHEC including STEC	Negative		/25g		2205553	07/01/22	AOAC RI 121806		X



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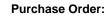


Solvents	Method:	Residua	I Solve	ents by	GC/MS	<b>Units</b> μg/g	Batch 22	205605	Analyz	<b>e</b> 07/0	)1/22 12:42 PM
Analyte	Result	Limits	LOQ	Status	Notes	Analyte		Result	Limits	LOQ	Status Notes
2-Methylbutane	< LOQ	1000	200	pass		2-Methylpenta	ane	< LOQ	60.0	30.0	pass
2-Propanol (IPA)	< LOQ	1000	200	pass		2,2-Dimethylb	utane	< LOQ	60.0	30.0	pass
2,2-Dimethylpropane	< LOQ	1000	200	pass		2,3-Dimethylb	utane	< 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 <sup>†</sup>	< 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		Methylpropan	е	< 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 (sur	m)	< LOQ	1000	600	pass
Propane	< LOQ	1000	200	pass		Toluene		< LOQ	180	100	pass
Total Xylenes	< LOQ	430	400	pass							



**Report Date:** 07/07/2022 ORELAP#: OR100028

22-007617/D003.R000



**Report Number:** 

Received: 06/29/22 11:00

Pesticides	Method: AO	AC 2007.01 & EN 15	662 (mod)	Units mg/kg Batch	2205582	Analy	ze 06/30/22 04:15 PM
Analyte	Result	Limits LOQ Status	Notes	Analyte	Result	Limits	LOQ Status Notes
Abamectin	< LOQ	0.25 0.070 pass		Acephate	< LOQ	0.050	0.020 pass
Acequinocyl	< LOQ	0.030 0.025 pass		Acetamiprid	< LOQ	0.050	0.050 pass
Aldicarb	< LOQ	0.50 0.100 pass		Allethrin	< LOQ	0.10	0.100 pass
Atrazine	< LOQ	0.0250 0.025 pass		Azadirachtin	< LOQ	1.0	0.500 pass
Azoxystrobin	< LOQ	0.010 0.010 pass		Benzovindiflupyr	< LOQ	0.010	0.010 pass
Bifenazate	< LOQ	0.010 0.010 pass		Bifenthrin	< LOQ	1.0	0.100 pass
Boscalid	< LOQ	0.010 0.010 pass		Buprofezin	< LOQ	0.020	0.010 pass
Carbaryl	< LOQ	0.025 0.025 pass		Carbofuran	< LOQ	0.010	0.010 pass
Chlorantraniliprole	< LOQ	0.020 0.010 pass		Chlorfenapyr	< LOQ	1.5	0.100 pass
Chlorpyrifos	< LOQ	0.50 0.010 pass		Clofentezine	< LOQ	0.010	0.010 pass
Clothianidin	< LOQ	0.025 0.025 pass		Coumaphos	< LOQ	0.010	0.010 pass
Cyantraniliprole	< LOQ	0.010 0.010 pass		Cyfluthrin	< LOQ	0.20	0.200 pass
Cyhalothrin,lambda	< LOQ	0.0200 0.250 pass		Cypermethrin	< LOQ	0.30	0.300 pass
Cyprodinil	< LOQ	0.010 0.010 pass		Daminozide	< LOQ	0.10	0.050 pass
Deltamethrin	< LOQ	0.50 0.500 pass		Diazinon	< LOQ	0.020	0.010 pass
Dichlorvos	< LOQ	0.050 0.050 pass		Dimethoate	< LOQ	0.010	0.010 pass
Dimethomorph	< LOQ	0.050 0.050 pass		Dinotefuran	< LOQ	0.050	0.050 pass
)iuron	< LOQ	0.125 0.125 pass		Dodemorph	< LOQ	0.050	0.050 pass
indosulfan I (alpha)	< LOQ	2.5 0.050 pass		Endosulfan II (beta)	< LOQ	2.5	0.050 pass
indosulfan sulfate	< LOQ	2.5 0.050 pass		Ethoprophos	< LOQ	0.010	0.010 pass
tofenprox	< LOQ	0.050 0.010 pass		Etoxazole	< LOQ	0.020	0.010 pass
tridiazole	< LOQ	0.15 0.050 pass		Fenhexamid	< LOQ	0.13	0.100 pass
enoxycarb	< LOQ	0.010 0.010 pass		Fenpyroximate	< LOQ	0.020	0.020 pass
ensulfothion	< LOQ	0.010 0.010 pass		Fenthion	< LOQ	0.010	0.010 pass
envalerate	< LOQ	0.200		Fipronil	< LOQ	0.010	0.010 pass
lonicamid	< LOQ	0.025 0.025 pass		Fludioxonil	< LOQ	0.010	0.010 pass
luopyram	< LOQ	0.010 0.010 pass		Hexythiazox	< LOQ	0.010	0.010 pass
mazalil	< LOQ	0.010 0.010 pass		Imidacloprid	< LOQ	0.010	0.010 pass
orodione	< LOQ	0.50 0.500 pass		Kinoprene	< LOQ	1.3	0.200 pass
(resoxim-methyl	< LOQ	0.15 0.010 pass		Malathion	< LOQ	0.010	0.010 pass
/letalaxyl	< LOQ	0.010 0.010 pass		Methiocarb	< LOQ	0.010	0.010 pass
/lethomyl	< LOQ	0.025 0.025 pass		Methoprene	< LOQ	2.0	1.00 pass
/levinphos	< LOQ	0.025 0.025 pass		MGK-264	< LOQ	0.050	0.050 pass
/lyclobutanil	< LOQ	0.010 0.010 pass		Naled	< LOQ	0.10	0.100 pass
lovaluron	< LOQ	0.025 0.025 pass		Oxamyl	< LOQ	1.5	0.500 pass
aclobutrazole	< LOQ	0.010 0.010 pass		Parathion-Methyl	< LOQ	0.050	0.030 pass
ermethrin	< LOQ	0.50 0.040 pass		Phenothrin	< LOQ	0.050	0.025 pass
hosmet	< LOQ	0.020 0.010 pass		Piperonyl butoxide	< LOQ	1.3	0.200 pass
irimicarb	< LOQ	0.010 0.010 pass		Prallethrin	< LOQ	0.050	0.050 pass
ropiconazole	< LOQ	0.10 0.010 pass		Propoxur	< LOQ	0.010	0.010 pass
yraclostrobin	< LOQ	0.010 0.010 pass		Pyrethrins (total)	< LOQ	0.050	0.025 pass
yridaben	< LOQ	0.020 0.020 pass		Pyriproxyfen	< LOQ		0.010 pass
Quintozene	< LOQ	0.020 0.020 pass		Resmethrin	< LOQ	0.050	0.020 pass
Spinetoram	< LOQ	0.010 0.010 pass		Spinosad	< LOQ	0.010	0.010 pass
Spirodiclofen	< LOQ	0.25 0.250 pass		Spiromesifen	< LOQ	3.0	0.030 pass
Spirotetramat	< LOQ	0.010 0.010 pass		Spiroxamine	< LOQ	0.10	0.010 pass
photetianiat	\ LOQ	0.010 0.010 pass		Эрноланине	\ LUQ	0.10	0.010 μαδδ





22-007617/D003.R000 **Report Number:** 

**Report Date:** 07/07/2022 ORELAP#: OR100028

**Purchase Order:** 

Received: 06/29/22 11:00

Pesticides	Method: AO/	AC 2007.01 & EN 15662 (mod)	Units mg/kg Batch 22	205582	<b>Analyze</b> 06/30/22 04:15 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	Analyze	Method	Status	Notes
Arsenic	< LOQ	1.50	mg/kg	0.0978	2205591	06/30/22	AOAC 2013.06 (mod.)	pass	Χ
Cadmium	< LOQ	0.50	mg/kg	0.0978	2205591	06/30/22	AOAC 2013.06 (mod.)	pass	Χ
Lead	< LOQ	0.50	mg/kg	0.0978	2205591	06/30/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	1.50	mg/kg	0.0489	2205591	06/30/22	AOAC 2013.06 (mod.)	pass	Χ

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status Notes		
Aflatoxin B2 <sup>†</sup>	< LOQ	5.00	μg/kg	5.00	2205724	07/07/22	AOAC 2007.01 & EN	pass		
Aflatoxin B1 <sup>†</sup>	< LOQ	5.00	μg/kg	5.00	2205724	07/07/22	AOAC 2007.01 & EN	pass		
Aflatoxin G1 <sup>†</sup>	< LOQ	5.00	μg/kg	5.00	2205724	07/07/22	AOAC 2007.01 & EN	pass		
Aflatoxin G2 <sup>†</sup>	< LOQ	5.00	μg/kg	5.00	2205724	07/07/22	AOAC 2007.01 & EN	pass		
Ochratoxin A <sup>†</sup>	< LOQ	5.00	μg/kg	5.00	2205724	07/07/22	AOAC 2007.01 & EN	pass		
Ochratoxin B <sup>†</sup>	< LOQ		μg/kg	2.00	2205724	07/07/22	AOAC 2007.01 & EN			





**Report Number:** 22-008935/D002.R000

Report Date: 08/04/2022 ORELAP#: OR100028 Purchase Order: 220726A

Received: 07/28/22 12:06

Microbiology												
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes					
Aerobic Plate Count	< LOQ		cfu/g	10	2206394	07/31/22 AOAC 990.12 (Petrifilm)						
E.coli	< LOQ		cfu/g	10	2206392	07/31/22 AOAC 991.14 (Petrifilm)						
Total Coliforms	< LOQ		cfu/g	10	2206392	07/31/22 AOAC 991.14 (Petrifilm)						
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2206393	08/01/22 AOAC 2014.05 (RAPID)						
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2206393	08/01/22 AOAC 2014.05 (RAPID)						
Salmonella spp. by PCR	Negative		/25g		2206395	07/30/22 AOAC 2020.02						