

# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME:

Certified Organic Full Spectrum CBD Tincture - Tropical ; 20 mg per bottle

**PRODUCT STRENGTH:** 

**TINCTURE BATCH: BEST BY DATE:** 

21306A 05/02/2023

**HEMP EXTRACT LOT:** 

CO729-001

# \*Click on the links to view third-party reports\*

# Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Tropical	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	$LOQ*: \ge product strength \\ mg / bottle$	- *' '* & mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	0.1\$' %	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

<sup>\*</sup>Level of Quantification

Values expressed in scientific notation. Examples: 10^2=100 10^3=1,000

Quality Certified

Kayla Kolber

11/09/2021

Date

<sup>\*\*</sup>Colony Forming Units per Gram † Parts Per Million †† Part Per Billion



# **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

## 27275

Batch ID or Lot Number: Test: Reported: C0727-001 8/17/21 **Potency** 

Started: Matrix: Test ID: **USDA License:** 

Solution T000155479 8/12/21 N/A

Sampler ID: Status: Method: Received:

TM14 (HPLC-DAD): Potency -N/A 08/05/2021 @ 12:37 PM N/A Standard Cannabinoid Analysis

(Colorado Panel)

# **CANNABINOID PROFILE**

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Nieko
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.132	0.438	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.149	0.494	0.970	1.03	Density
Cannabidiolic acid (CBDA)	0.220	0.524	ND	ND	,
Cannabidiol (CBD)	0.214	0.511	32.121	33.99	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.164	0.544	ND	ND	
Cannabinolic Acid (CBNA)	0.094	0.312	ND	ND	
Cannabinol (CBN)	0.043	0.143	0.098*	0.1*	
Cannabigerolic acid (CBGA)	0.138	0.457	ND	ND	
Cannabigerol (CBG)	0.033	0.109	2.561	2.71	
Tetrahydrocannabivarinic Acid (THCVA)	0.116	0.386	ND	ND	
Tetrahydrocannabivarin (THCV)	0.030	0.099	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.092	0.218	ND	ND	
Cannabidivarin (CBDV)	0.051	0.121	0.183	0.19	
Cannabichromenic Acid (CBCA)	0.053	0.176	ND	ND	
Cannabichromene (CBC)	0.058	0.192	ND	ND	
Total Cannabinoids			35.933	38.02	
Total Potential THC**			0.970	1.03	

Taylor Brevik 17-Aug-21 1:56 PM

32.121

33.99



PREPARED BY / DATE

Total Potential CBD\*\*

Daniel Weidensaul 17-Aug-2021 01:50 PM

APPROVED BY / DATE

# **Definitions**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD 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)) and Total CBD = CBD + (CBDa \*(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.



0.945g/mL







## 27275

Batch ID or Lot Number: C0727-001	Test: Pesticides	Reported: <b>8/11/21</b>	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155480	8/10/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	08/05/2021 @ 12:37 PM	N/A

# **PESTICIDE DETERMINATION**

Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)
Acephate	54	ND	Fenoxycarb	54	ND	Paclobutrazol	54	ND
Acetamiprid	54	ND	Fipronil	54	ND	Permethrin	324	ND
Avermectin	324	ND	Flonicamid	54	ND	Phosmet	54	ND
Azoxystrobin	54	ND	Fludioxonil	324	ND	Prophos	324	ND
Bifenazate	54	ND	Hexythiazox	54	ND	Propoxur	54	ND
Boscalid	54	ND	Imazalil	324	ND	Pyridaben	324	ND
Carbaryl	54	ND	Imidacloprid	54	ND	Spinosad A	54	ND
Carbofuran	54	ND	Kresoxim-methyl	150	ND	Spinosad D	324	ND
Chlorantraniliprole	54	ND	Malathion	324	ND	Spiromesifen	324	ND
Chlorpyrifos	500	ND	Metalaxyl	54	ND	Spirotetramat	324	ND
Clofentezine	324	ND	Methiocarb	54	ND	Spiroxamine 1	54	ND
Diazinon	324	ND	Methomyl	54	ND	Spiroxamine 2	54	ND
Dichlorvos	324	ND	MGK 264 1	324	ND	Tebuconazole	324	ND
Dimethoate	54	ND	MGK 264 2	324	ND	Thiacloprid	54	ND
E-Fenpyroximate	324	ND	Myclobutanil	54	ND	Thiamethoxam	54	ND
Etofenprox	54	ND	Naled	54	ND	Trifloxystrobin	54	ND
Etoxazole	324	ND	Oxamyl	1500	ND			

Toph Bail

Taylor Brevik 8/11/2021 4:08:00 PM

Samantha Smoll

Sam Smith 8/11/2021 4:11:00 PM

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## **Definitions**

LOQ = Limit of Quantification ppb = Parts per Billion

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Certificate #4329.02



# **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

## **OFTT900**

Batch ID or Lot Number: Reported: Test: 21306A **Microbial** 11/8/21

**Contaminants** 

Test ID: Started: **USDA License:** Matrix:

**Finished Product** T000174572 11/5/21 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 11/05/2021 @ 10:59 AM N/A N/A

TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

# MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

**Notes** 

Free from visual mold, mildew, and foreign matter

Buanne Maillot

**Brianne Maillot** 11/8/2021 3:59:00 PM

Brett Hudson 11/8/2021 4:49:00 PM

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APPROVED BY / DATE

#### **Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100 CFU$ 

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

## 27275

Batch ID or Lot Number: C0727-001	Test: Residual Solvents	Reported: <b>8/12/21</b>		
Matrix: N/A	Test ID: T000155483	Started: 8/11/21	USDA License: N/A	
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ts 08/05/2021 @ 12:37 PM	Sampler ID: N/A	

# **RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	79 - 1585	*ND	
Butanes (Isobutane, n-Butane)	149 - 2976	*ND	
Methanol	55 - 1102	*ND	
Pentane	81 - 1628	*ND	
Ethanol	87 - 1740	*ND	
Acetone	90 - 1792	*ND	
Isopropyl Alcohol	99 - 1978	*ND	
Hexane	6 - 110	*ND	
Ethyl Acetate	91 - 1819	*ND	
Benzene	0 - 4	*ND	
Heptanes	86 - 1728	*ND	
Toluene	16 - 329	*ND	
Xylenes	121 - 2429	*ND	
(m,p,o-Xylenes)	121 - 2429	"IND	

L Winternheimer

Karen Winternheimer

12-Aug-21 3:07 PM Myour News

Ryan Weems 12-Aug-21 3:09 PM

PREPARED BY / DATE

APPROVED BY / DATE

## **Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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CDPHE Certified



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### 27275

Batch ID or Lot Number: <b>C0727-001</b>	Test:  Mycotoxins	Reported: <b>8/12/21</b>	Location: 1250 S Capital of Texas Highway, B West Lake Hills, TX 78746-6446
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155484	8/11/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	08/05/2021 @ 12:37 PM	N/A

# MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	5.2 - 139.9	ND	N/A
Aflatoxin B1	1 - 36.2	ND	
Aflatoxin B2	1.1 - 35.4	ND	
Aflatoxin G1	1 - 35.6	ND	
Aflatoxin G2	1.2 - 34.3	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Toph Bil

Taylor Brevik 12-Aug-21 2:47 PM

Samantha Smill

Sam Smith 12-Aug-21 2:50 PM

PREPARED BY / DATE

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#### **Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

### 27275

Batch ID or Lot Number: <b>C0727-001</b>	Test: <b>Metals</b>	Reported: <b>8/13/21</b>	
Matrix: Unit Co	Test ID: T000155482	Started: 8/12/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 08/05/2021 @ 12:37 PM	Sampler ID: N/A

# **HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Arsenic	0.044 - 4.39	ND	
Cadmium	0.048 - 4.78	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.044 - 4.38	ND	

Samantha Smoll

Sam Smith 13-Aug-21 1:11 PM

Daniel Wartonsand

Daniel Weidensaul 13-Aug-21 1:14 PM

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## **Definitions**

ND = None Detected (Defined by Dynamic Range of the method)



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