

PRODUCT NAME: *Certified Organic Full Spectrum CBD Tincture- Tropical

PRODUCT STRENGTH: 1350 mg per bottle

TINCTURE BATCH: 22090A **BEST BY DATE:** 9/15/2023 D0211-001 **HEMP EXTRACT LOT:**

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	$LOQ*: \ge product \ strength \\ mg \ / \ bottle$	1,615.95 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	0.15%	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

^{*}Level of Quantification

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

Quality Certified

Keegan Schlittler

04/05/2022

Date

Quality Assurance Manager

^{**}Colony Forming Units per Gram † Parts Per Million †† Part Per Billion



D0211-001

Batch ID or Lot Number: FMCT1350	Test: Potency	Reported: 21Feb2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000193659	Started: 18Feb2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 17Feb2022	Status: N/A

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabichromene (CBC)	0.017	0.056	ND	ND
Cannabichromenic Acid (CBCA)	0.016	0.052	ND	ND
Cannabidiol (CBD)	0.041	0.149	5.670	56.70
Cannabidiolic Acid (CBDA)	0.042	0.153	ND	ND
Cannabidivarin (CBDV)	0.010	0.035	0.032*	0.32*
Cannabidivarinic Acid (CBDVA)	0.018	0.064	ND	ND
Cannabigerol (CBG)	0.010	0.032	0.471	4.71
Cannabigerolic Acid (CBGA)	0.041	0.134	ND	ND
Cannabinol (CBN)	0.013	0.042	0.018*	0.18*
Cannabinolic Acid (CBNA)	0.028	0.091	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.049	0.160	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.045	0.145	0.151	1.51
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.040	0.128	ND	ND
Tetrahydrocannabivarin (THCV)	0.009	0.029	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.035	0.113	ND	ND
Total Cannabinoids			6.342	63.42
Total Potential THC**			0.151	1.51
Total Potential CBD**			5.670	56.70

Final Approval



Hannah Wright 21Feb2022 01:47:00 PM MST

APPROVED BY / DATE

Ryan Weems 21Feb2022 01:49:00 PM MST



https://results.botanacor.com/api/v1/coas/uuid/c0e08dfb-4d67-41d0-b7ad-b972b3582575

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 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. ISO/ IEC 17025:2005 Accredited A2LA.













D0211-001

Batch ID or Lot Number: FMCT1350	Test: Pesticides	Reported: 22Feb2022	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000193660	21Feb2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	17Feb2022	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	296 - 2788	ND
Acephate	23 - 2806	ND
Acetamiprid	38 - 2786	ND
Azoxystrobin	71 - 2736	ND
Bifenazate	42 - 2786	ND
Boscalid	83 - 2759	ND
Carbaryl	41 - 2722	ND
Carbofuran	42 - 2747	ND
Chlorantraniliprole	63 - 2876	ND
Chlorpyrifos	42 - 2815	ND
Clofentezine	284 - 2744	ND
Diazinon	290 - 2796	ND
Dichlorvos	292 - 2852	ND
Dimethoate	39 - 2802	ND
E-Fenpyroximate	326 - 2886	ND
Etofenprox	42 - 2746	ND
Etoxazole	296 - 2812	ND
Fenoxycarb	45 - 2741	ND
Fipronil	44 - 2798	ND
Flonicamid	40 - 2839	ND
Fludioxonil	316 - 2809	ND
Hexythiazox	62 - 2744	ND
Imazalil	276 - 2758	ND
Imidacloprid	44 - 2808	ND
Kresoxim-methyl	81 - 2757	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	301 - 2748	ND
Metalaxyl	45 - 2822	ND
Methiocarb	46 - 2867	ND
Methomyl	35 - 2773	ND
MGK 264 1	150 - 1593	ND
MGK 264 2	122 - 1146	ND
Myclobutanil	42 - 2783	ND
Naled	44 - 2758	ND
Oxamyl	36 - 2727	ND
Paclobutrazol	41 - 2656	ND
Permethrin	268 - 2785	ND
Phosmet	39 - 2784	ND
Prophos	299 - 2812	ND
Propoxur	42 - 2710	ND
Pyridaben	296 - 2756	ND
Spinosad A	31 - 2280	ND
Spinosad D	50 - 513	ND
Spiromesifen	375 - 2753	ND
Spirotetramat	296 - 2874	ND
Spiroxamine 1	13 - 1216	ND
Spiroxamine 2	18 - 1608	ND
Tebuconazole	290 - 2717	ND
Thiacloprid	40 - 2788	ND
Thiamethoxam	40 - 2807	ND
Trifloxystrobin	39 - 2788	ND

Final Approval

PREPARED BY / DATE

Sowantha Small

Sam Smith 22Feb2022 12:13:00 PM MST

APPROVED BY / DATE

Daniel Weidensaul 22Feb2022 12:19:00 PM MST



DATE

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Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Cert #4329.02 3d56854646cd42bc9e2523b1c29ecd33.2



Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:

JOY ORGANICS OFTT1350

Batch ID or Lot Number: Test: Reported: Location: 5042 Technology Parkway Ste. 50 22090A **Microbial** 4/4/22 FT. COLLINS, CO 80528 **Contaminants** Test ID: Started: **USDA License:** Matrix:

Finished Product T000200845 4/1/22 N/A

Methods: Sampler ID: Status: Received: TM25 (qPCR) 04/01/2022 @ 10:30 AM

TM24, TM26, TM27(Culture Plating):

Microbial

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
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

N/A

Free from visual mold, mildew, and foreign matter

N/A

Jackson Osaghae-Nosa 4/4/2022

3:01:00 PM

APPROVED BY / DATE

Eden Thompson-Wright 4/4/2022

4:01:00 PM

Eden Thompson

PREPARED 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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D0211-001

Batch ID or Lot Number: FMCT1350	Test: Heavy Metals	Reported: 21Feb2022	USDA License: NA	
Matrix: Unit Co	Test ID: T000193662	Started: 18Feb2022	Sampler ID: NA	
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 17Feb2022	Status: NA	

Dynamic Range (ppm)	Result (ppm)	Notes	
0.04 - 4.34	ND		
0.04 - 4.45	ND		
0.04 - 4.49	ND		
0.04 - 4.01	ND		
	0.04 - 4.34 0.04 - 4.45 0.04 - 4.49	0.04 - 4.34 ND 0.04 - 4.45 ND 0.04 - 4.49 ND	0.04 - 4.34 ND 0.04 - 4.45 ND 0.04 - 4.49 ND

Final Approval



Kayla Phye 22Feb2022 05:29:00 PM MST Myan News

Ryan Weems 22Feb2022 05:44:00 PM MST



APPROVED BY / DATE

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Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

CDPHE Certified 8a7ec944fd5b4592bfee4901eb6424f3.1



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

D0211-001

Batch ID or Lot Number: FMCT1350	Test: Mycotoxins	Reported: 2/21/22	
Matrix: Concentrate	Test ID: T000193664	Started: 2/18/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 02/17/2022 @ 11:04 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.4 - 134.3	ND	N/A
Aflatoxin B1	1 - 33.3	ND	
Aflatoxin B2	1.3 - 33.1	ND	
Aflatoxin G1	1.2 - 33.1	ND	
Aflatoxin G2	1.5 - 31.6	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

-

Ryan Weems 21-Feb-22 12:35 PM

Samantha Smil

Sam Smith 21-Feb-22 12:37 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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CDPHE Certified





Certificate #4329.02





D0211-001

Batch ID or Lot Number: FMCT1350	Test:	Reported:	USDA License:
	Residual Solvents	21Feb2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000193663	21Feb2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	17Feb2022	N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1813	ND	
Butanes (Isobutane, n-Butane)	184 - 3690	ND	
Methanol	65 - 1294	ND	
Pentane	97 - 1944	ND	
Ethanol	95 - 1908	ND	
Acetone	103 - 2067	ND	
Isopropyl Alcohol	105 - 2102	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	103 - 2068	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	104 - 2071	ND	
Toluene	18 - 369	ND	
Xylenes (m,p,o-Xylenes)	129 - 2577	ND	

Final Approval

Ryan Weems 22Feb2022

PREPARED BY / DATE

05:27:00 PM MST

22Feb2022 05:33:00 PM MST

APPROVED BY / DATE

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Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Daniel Weidensaul







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