CERTIFICATE OF ANALYSIS

PRODUCT NAME:
PRODUCT STRENGTH:
TINCTURE BATCH:
BEST BY DATE:
HEMP EXTRACT LOT:

*Certified Organic - Full Spectrum CBD Tincture - Vtqr kecn 4472 mg per bottle 21258D 03/15/2023 E294: /224

Click on the links to view third-party reports

Physical Atttributes

Method Specification Test Results Internal Golden to Amber PASS Color Internal Characteristic - Eqeqpw/cpf 'J go r .'Vtqr kecn PASS Odor Internal Golden to Amber oil in brown glass bottle with dropper. Appearance PASS Internal Container clean and free of filth. Container caps tight and Primary Package Eval. PASS shrink bands intact Labeling Compliance Checked, Cartons sturdy and clean. Secondary Package Eval. Internal PASS Sufficient cushion material exists. Box taped and secure.

Review of Third-Party Analysis

HPLC-UV DAD	LOQ**: ≥ product strength mg / bottle	82 +* 'a ['	DACC
	ing / boule	ov∠ + d [PASS
HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	\$"&%	PASS
HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram***	Absent	PASS
PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
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
ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 7 ppb Ochratoxin < 7 ppb	Below LOQ	PASS
GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
	PCR PCR Culture Plating Culture Plating Culture Plating ICP-MS ICP-MS	HPLC-QQQLOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp ExtractPCRComplies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram***PCRComplies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gramCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gramCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gramCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gramCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramICP-MSArsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppmICP-MSTotal Aflatoxins <20 ppb†† Afltoxin B1 < 7 ppb Ochratoxin < 7 ppb	HPLC-QQQLOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp ExtractBelow LOQPCRComplies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram***AbsentPCRComplies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gramAbsentCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 1 0^2 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramBelow LOQCulture PlatingComplies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gramBelow LOQGC-MSTotal Aflatoxins <20 ppb†† Afltoxin B1 < 7 ppb

*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 Assurance Technician



Batch ID or Lot Number:	Test:	Reported:	
C0728-002	Potency	8/17/21	
Matrix:	Test ID:	Started:	USDA License:
Solution	T000155491	8/12/21	N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 08/05/2021 @ 12:37 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notos
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.140	0.464	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.158	0.523	1.965	2.08	Density = 0.945g/mL
Cannabidiolic acid (CBDA)	0.233	0.555	ND	ND	, C
Cannabidiol (CBD)	0.227	0.541	79.196	83.81	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.174	0.576	ND	ND	
Cannabinolic Acid (CBNA)	0.100	0.330	ND	ND	
Cannabinol (CBN)	0.046	0.151	0.198	0.21	
Cannabigerolic acid (CBGA)	0.146	0.484	ND	ND	
Cannabigerol (CBG)	0.035	0.116	5.827	6.17	
Tetrahydrocannabivarinic Acid (THCVA)	0.123	0.409	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.105	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.097	0.231	ND	ND	
Cannabidivarin (CBDV)	0.054	0.128	0.500	0.53	
Cannabichromenic Acid (CBCA)	0.056	0.186	ND	ND	
Cannabichromene (CBC)	0.061	0.204	ND	ND	
Total Cannabinoids			87.686	92.79	
Total Potential THC**			1.965	2.08	

Total Potential THC** Total Potential CBD**

Daniel Wenterson

17-Aug-2021 01:50 PM

The Bil

APPROVED BY / DATE

79.196

Taylor Brevik

17-Aug-21

1:56 PM

83.81

PREPARED 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).

Daniel Weidensaul

** 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.







Batch ID or Lot Number:	Test:	Reported:	
C0728-002	Pesticides	8/11/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155492	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			

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

 PREPARED BY / DATE
 APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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OFTT2250

Batch ID or Lot Number: 21258B	^{Test:} Microbial Contaminants	Reported: 9/20/21	
Matrix: Finished Product	Test ID: T000164002	Started: 9/16/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 09/16/2021 @ 10:43 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	Free from visual mold,
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
Total Yeast and Mold*	TM-24, Culture Plating	10^2 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	



Carly Bader 9/19/2021 1:34:00 PM

APPROVED BY / DATE

Tori King 9/20/2021 2:27:00 PM

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.

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vritten in decimal for Examples:

10^2 = 100 CFU 10^3 = 1,000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU



CDPHE Certified



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Batch ID or Lot Number: C0728-002	Test: Metals	Reported: 8/13/21		uildir
Matrix: Unit Co	Test ID: T000155494	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

Arsenic 0.044 - 4.39 ND Cadmium 0.048 - 4.78 ND Mercury 0.044 - 4.38 ND Lead 0.044 - 4.38 ND	Compound	1	Dynamic Range (ppb)	Result (ppb)	Not
Mercury 0.044 - 4.38 ND	Arsenic		0.044 - 4.39	ND	
	Cadmium		0.048 - 4.78	ND	_
Lead 0.044 - 4.38 ND	Mercury		0.044 - 4.38	ND	
	Lead		0.044 - 4.38	ND	
	Samantha Smoll	13-Aug-21 1:11 PM	Danuel Word	13-Aug-21 1:14 PM	

Definitions

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





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



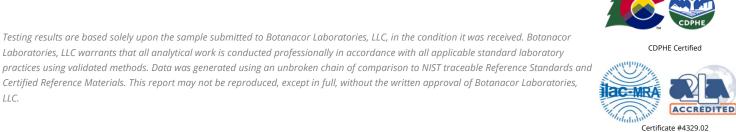
Batch ID or Lot Number:	^{Test:}	Reported:	
C0728-002	Mycotoxins	8/12/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155496	8/11/21	N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 08/05/2021 @ 12:37 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynam	ic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	l.	5.2 - 139.1	ND	N/A
Aflatoxin B1		1 - 36	ND	
Aflatoxin B2		1.1 - 35.2	ND	
Aflatoxin G1		1 - 35.3	ND	
Aflatoxin G2		1.2 - 34.1	ND	
Total Aflatoxins (B1, B2, G	1, and G2)		ND	
Toph Bail	Taylor Brevik 12-Aug-21 2:47 PM	Gaman	Sam Smith the Smith 12-Aug-21 2:50 PM	

Definitions

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



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.



Batch ID or Lot Number: C0728-002	^{Test:} Residual Solvents	Reported: 8/12/21		
Matrix: N/A	Test ID: T000155495	Started: 8/11/21	USDA License: N/A	
Status: N/A	Methods: TM04 (GC-MS): Residual Solver (Colorado Panel)	Received: hts 08/05/2021 @ 12:37 PM	Sampler ID: N/A	

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1865	*ND	
Butanes (Isobutane, n-Butane)	175 - 3502	*ND	
Methanol	65 - 1297	*ND	
Pentane	96 - 1916	*ND	
Ethanol	102 - 2048	*ND	
Acetone	105 - 2109	*ND	
Isopropyl Alcohol	116 - 2328	*ND	
Hexane	6 - 130	*ND	
Ethyl Acetate	107 - 2140	*ND	
Benzene	0 - 4	*ND	
Heptanes	102 - 2034	*ND	
Toluene	19 - 387	*ND	
Xylenes (m,p,o-Xylenes)	143 - 2859	*ND	

Winternheimen

Karen Winternheimer 12-Aug-21 3:07 PM

Hugen Veus

APPROVED BY / DATE

Ryan Weems 12-Aug-21 3:09 PM

PREPARED BY / DATE

Definitions

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



CDPHE Certified



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