DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels
PRODUCT STRENGTH: 25 mg CBD
BATCH: 21305B
BEST BY DATE: HEMP 09/23/2023
EXTRACT LOT: 21E0002753

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	No odor	PASS
Appearance	Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	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: ≥ 25 mg / softgel	**32.28 mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	**ND**	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 < 5ppb	**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
**CFU/g=Colony Forming Units per Gram
† Parts Per Million †† Part Per Billion

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

Quality Certified — Kayla Kolber — 11/09/2021
Kayla Kolber, Quality Assurance Technician — Date

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Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

25mg capsule

Batch ID or Lot Number:	Test:	Reported:
21E0002753	**Potency**	**9/29/21**

Matrix:	Test ID:	Started:	USDA License:
Unit	T000165890	9/28/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	09/27/2021 @ 11:11 AM	N/A

CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.216	0.727	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.244	0.820	ND	ND
Cannabidiolic acid (CBDA)	0.306	0.775	ND	ND
Cannabidiol (CBD)	0.298	0.756	32.305	56.54
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.269	0.903	ND	ND
Cannabinolic Acid (CBNA)	0.154	0.517	ND	ND
Cannabinol (CBN)	0.070	0.237	ND	ND
Cannabigerolic acid (CBGA)	0.226	0.758	ND	ND
Cannabigerol (CBG)	0.054	0.181	2.044	3.58
Tetrahydrocannabivarinic Acid (THCVA)	0.191	0.641	ND	ND
Tetrahydrocannabivarin (THCV)	0.049	0.165	ND	ND
Cannabidivarinic Acid (CBDVA)	0.128	0.323	ND	ND
Cannabidivarin (CBDV)	0.070	0.179	ND	ND
Cannabichromenic Acid (CBCA)	0.087	0.292	ND	ND
Cannabichromene (CBC)	0.095	0.319	ND	ND
Total Cannabinoids			**34.349**	**60.12**
Total Potential THC**			ND	ND
Total Potential CBD**			32.305	56.54

Notes

of Servings = 1
Sample Weight=0.571g

Daniel Weidensaul
29-Sep-2021
01:41 PM
PREPARED BY / DATE

Sam Smith
29-Sep-21
1:44 PM
APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
* Indicates a value below the Limit of Quantitation (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)

CDPHE Certified

Certificate #4329.02

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.

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CERTIFICATE OF ANALYSIS

25mg capsule

Batch ID or Lot Number:	Test:	Reported:	
21E0002753	**Pesticides**	**9/29/21**	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	t000165891	9/28/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	09/27/2021 @ 11:11 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	41	ND	Fenoxycarb	42	ND	Paclobutrazol	42	ND
Acetamiprid	40	ND	Fipronil	33	ND	Permethrin	287	ND
Avermectin	316	ND	Flonicamid	51	ND	Phosmet	43	ND
Azoxystrobin	43	ND	Fludioxonil	295	ND	Prophos	293	ND
Bifenazate	46	ND	Hexythiazox	47	ND	Propoxur	41	ND
Boscalid	54	ND	Imazalil	284	ND	Pyridaben	298	ND
Carbaryl	39	ND	Imidacloprid	42	ND	Spinosad A	35	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	54	ND
Chlorantraniliprole	53	ND	Malathion	299	ND	Spiromesifen	272	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	305	ND
Clofentezine	285	ND	Methiocarb	42	ND	Spiroxamine 1	18	ND
Diazinon	290	ND	Methomyl	44	ND	Spiroxamine 2	24	ND
Dichlorvos	290	ND	MGK 264 1	160	ND	Tebuconazole	290	ND
Dimethoate	42	ND	MGK 264 2	136	ND	Thiacloprid	41	ND
E-Fenpyroximate	317	ND	Myclobutanil	40	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	44	ND	Trifloxystrobin	43	ND
Etoxazole	307	ND	Oxamyl	1500	ND			

Samantha Smith

Sam Smith
9/29/2021
5:13:00 PM

PREPARED BY / DATE

Courtney Richards

Courtney Richards
9/29/2021
7:12:00 PM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Certificate #4329.02

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CERTIFICATE OF ANALYSIS

SG25

Batch ID or Lot Number:	Test:	Reported:
21305B	**Microbial Contaminants**	**11/6/21**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000174189	11/3/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	11/03/2021 @ 10:21 AM	N/A

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

Robert Belfon
11/6/2021
1:35:00 PM
PREPARED BY / DATE

Courtney Richards
11/6/2021
11:12:00 PM
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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Certificate #4329.02

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

25mg capsule

Batch ID or Lot Number:	Test:	Reported:	
21E0002753	**Metals**	**9/30/21**	
Matrix: Unit Co	Test ID: T000165893	Started: 9/29/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/27/2021 @ 11:11 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.73	ND	
Cadmium	0.046 - 4.60	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.048 - 4.76	ND	

Ryan Weems
30-Sep-21
12:59 PM
PREPARED BY / DATE

Sam Smith
30-Sep-21
1:02 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

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CERTIFICATE OF ANALYSIS

25mg capsule

Batch ID or Lot Number:	Test:	Reported:
21E0002753	**Mycotoxins**	**10/1/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000165895	9/29/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	09/27/2021 @ 11:11 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.8 - 131.9	ND	N/A
Aflatoxin B1	1.1 - 33.8	ND	
Aflatoxin B2	1.1 - 33.4	ND	
Aflatoxin G1	0.9 - 33.4	ND	
Aflatoxin G2	1.1 - 32.2	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smith

Sam Smith
30-Sep-21
11:46 AM

PREPARED BY / DATE

Courtney Richards

Courtney Richards
1-Oct-21
8:35 AM

APPROVED BY / DATE

Definitions

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

CDPHE Certified

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Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

25mg capsule

Batch ID or Lot Number:	Test:	Reported:
21E0002753	**Residual Solvents**	**9/29/21**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000165894	9/29/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents (Colorado Panel)	09/27/2021 @ 11:11 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	103 - 2054	*ND	
Butanes (Isobutane, n-Butane)	207 - 4133	*ND	
Methanol	75 - 1493	*ND	
Pentane	108 - 2167	*ND	
Ethanol	116 - 2314	*ND	
Acetone	118 - 2351	*ND	
Isopropyl Alcohol	128 - 2555	*ND	
Hexane	7 - 145	*ND	
Ethyl Acetate	120 - 2394	*ND	
Benzene	0 - 5	*ND	
Heptanes	114 - 2273	*ND	
Toluene	22 - 431	*ND	
Xylenes (m,p,o-Xylenes)	156 - 3128	*ND	

Daniel Weidensaul
29-Sep-21
7:33 PM
PREPARED BY / DATE

Ryan Weems
29-Sep-21
7:35 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

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.

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