CERTIFICATE OF ANALYSIS

PRODUCT NAME:	CBD Softgels
PRODUCT STRENGTH:	25 mg CBD
BATCH:	21341A
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: \geq 25 mg / softgel	32.31 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	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 <u>Keegan Schlittler</u> Keegan Schlittler

12/16/2021

Quality Assurance Manager

Date

FO-106 Certificate of Analysis Rev. 1.2 - Effective Date: 09/03/2021



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25mg capsule

Length Michael States

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

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Blates
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.216	0.727	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.244	0.820	ND	ND	# of Servings = 1
Cannabidiolic acid (CBDA)	0.306	0.775	ND	ND	Sample Weight=0.571g
Cannabidiol (CBD)	0.298	0.756	32.305	56.54	compre traight dist is
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	
Can nabidivarinic 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**		A Distance of the	ND	ND	
Total Potential CBD**			32.305	56.54	

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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 (LCD).

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during

Daniel Weidensaul

29-Sep-2021

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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.





Sam Smith

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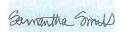
25mg capsule

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Batch ID or Lot Number: 21E0002753	Test: Pesticides	Reported: 9/29/21	romaları 1980 - Solareka evili Siş vətişçi Solari
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	A TRACE		



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

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Definitions LOQ = Limit of Quantification ppb = Parts per Billion



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SG25

Batch ID or Lot Number: 21341A	^{Test:} Microbial Contaminants	Reported: 12/15/21	
Matrix: Finished Product	Test ID: T000181638	Started: 12/10/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/09/2021 @ 01:35 PM	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	10^1 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	10^1 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	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

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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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25mg capsule

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Batch ID or Lot Number:	Test:	Reported:	
21E0002753	Metals	9/30/21	
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000165893	9/29/21	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



Definitions

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



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25mg capsule

Batch ID or Lot Number: 21E0002753	Test: Mycotoxins	Reported: 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 Ra	ange (ppb)	Result (ppb)	Notes	
Ochratoxin A	1.8 - 1	31.9	ND	N/A	
Aflatoxin B1	1.1 - 3	33.8	ND		
Aflatoxin B2	1.1 - 3	33.4	ND		
Aflatoxin G1	0.9 - 3	33.4	ND		
Aflatoxin G2	1.1 - 3	32.2	ND		
Total Aflatoxins (B1, B2, G	1, and G2)		ND		

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



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25mg capsule

1010 (Mar 1997) (Mar 1997)

Batch ID or Lot Number: 21E0002753	Test: Residual Solvents	Reported: 9/29/21	
Matrix:	Test ID:	Started:	USDA License:
J/A	T000165894	9/29/21	N/A
Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solven (Colorado Panel)	ts 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

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Ryan Weems

29-Sep-21

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Definitions

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



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