CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Melatonin Softgels
PRODUCT STRENGTH: 25 mg CBD
BATCH: 21264A,220616J, 220603A
BEST BY DATE: HEMP 06/24/2023
EXTRACT LOT: 21E0000845

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	**32.219 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 — 09/27/2021
Kayla Kolber
Quality Assurance Technician
Date

botanacor

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

SG25M

Batch ID or Lot Number:	Test:	Reported:
21E0000845	**Potency**	**7/30/21**

Matrix:	Test ID:	Started:	USDA License:
Unit	T000153142	7/28/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	07/22/2021 @ 10:29 AM	N/A

CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.007	0.018	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.007	0.020	ND	ND
Cannabidiolic acid (CBDA)	0.065	0.237	ND	ND
Cannabidiol (CBD)	0.064	0.231	32.219	58.84
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.083	0.240	ND	ND
Cannabinolic Acid (CBNA)	0.047	0.137	ND	ND
Cannabinol (CBN)	0.022	0.063	ND	ND
Cannabigerolic acid (CBGA)	0.069	0.201	ND	ND
Cannabigerol (CBG)	0.017	0.048	2.071	3.78
Tetrahydrocannabivarinic Acid (THCVA)	0.059	0.170	ND	ND
Tetrahydrocannabivarin (THCV)	0.015	0.044	ND	ND
Cannabidivarinic Acid (CBDVA)	0.027	0.099	ND	ND
Cannabidivarin (CBDV)	0.015	0.055	0.052*	0.09*
Cannabichromenic Acid (CBCA)	0.027	0.078	ND	ND
Cannabichromene (CBC)	0.029	0.085	ND	ND
Total Cannabinoids			**34.342**	**62.72**
Total Potential THC**			ND	ND
Total Potential CBD**			32.219	58.84

Notes

of Servings = 1
Sample Weight=0.548g

Ryan Weems
30-Jul-2021
09:48 AM
PREPARED BY / DATE

Taylor Brevik
30-Jul-21
9:53 AM
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

SG25M

Batch ID:	21E0000845	**Test ID:**	T000153143
Type:	Concentrate	**Submitted:**	07/22/2021 @ 10:29 AM
Test:	Pesticides	**Started:**	7/26/2021
Method:	TM17 (UHPLC-QQQ LC MS/MS)	**Reported:**	7/28/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	42 - 2343	ND*
Acetamiprid	40 - 2343	ND*
Abamectin	>256	ND*
Azoxystrobin	41 - 2343	ND*
Bifenazate	39 - 2343	ND*
Boscalid	40 - 2343	ND*
Carbaryl	39 - 2343	ND*
Carbofuran	43 - 2343	ND*
Chlorantraniliprole	50 - 2343	ND*
Chlorpyrifos	43 - 2343	ND*
Clofentezine	273 - 2343	ND*
Diazinon	278 - 2343	ND*
Dichlorvos	>236	ND*
Dimethoate	40 - 2343	ND*
E-Fenpyroximate	322 - 2343	ND*
Etofenprox	40 - 2343	ND*
Etoxazole	297 - 2343	ND*
Fenoxycarb	>40	ND*
Fipronil	48 - 2343	ND*
Flonicamid	42 - 2343	ND*
Fludioxonil	>274	ND*
Hexythiazox	36 - 2343	ND*
Imazalil	262 - 2343	ND*
Imidacloprid	43 - 2343	ND*
Kresoxim-methyl	43 - 2343	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	282 - 2343	ND*
Metalaxyl	39 - 2343	ND*
Methiocarb	39 - 2343	ND*
Methomyl	41 - 2343	ND*
MGK 264 1	161 - 2343	ND*
MGK 264 2	115 - 2343	ND*
Myclobutanil	44 - 2343	ND*
Naled	44 - 2343	ND*
Oxamyl	37 - 2343	ND*
Paclobutrazol	43 - 2343	ND*
Permethrin	269 - 2343	ND*
Phosmet	39 - 2343	ND*
Prophos	249 - 2343	ND*
Propoxur	42 - 2343	ND*
Pyridaben	304 - 2343	ND*
Spinosad A	29 - 2343	ND*
Spinosad D	79 - 2343	ND*
Spiromesifen	>271	ND*
Spirotetramat	>303	ND*
Spiroxamine 1	17 - 2343	ND*
Spiroxamine 2	22 - 2343	ND*
Tebuconazole	309 - 2343	ND*
Thiacloprid	40 - 2343	ND*
Thiamethoxam	40 - 2343	ND*
Trifloxystrobin	41 - 2343	ND*

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

N/A

FINAL APPROVAL

Taylor Brevik
28-Jul-2021
9:34 AM

PREPARED BY / DATE

Sam Smith
28-Jul-2021
9:37 AM

APPROVED BY / DATE

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.

ilac-MRA A2LA ACCREDITED
Certificate #4329.02

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CERTIFICATE OF ANALYSIS

SG25M

Batch ID or Lot Number:	Test:	Reported:
21264A	**Microbial Contaminants**	**9/25/21**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000165100	9/22/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	09/22/2021 @ 10:51 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	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
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

Notes

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa
9/25/2021
1:53:00 PM
PREPARED BY / DATE

Courtney Richards
9/25/2021
10:06:00 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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CDPHE Certified

Certificate #4329.02

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

SG25M

Batch ID or Lot Number:	Test:	Reported:
21E0000845	**Metals**	**8/4/21**

Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000153145	7/28/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals (Colorado Panel)	07/22/2021 @ 10:29 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Arsenic	0.052 - 5.23	ND
Cadmium	0.044 - 4.42	ND
Mercury	0.044 - 4.38	ND
Lead	0.044 - 4.37	ND

Notes

Amendment to certificate T000153145, certificate updated to Colorado Compliance format.

Ryan Weems
4-Aug-21
10:45 AM

PREPARED BY / DATE

Sam Smith
4-Aug-21
10:53 AM

APPROVED BY / DATE

Definitions

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

CDPHE Certified

Certificate #4329.02

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Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

SG25M

Batch ID or Lot Number:	Test:	Reported:
21E0000845	**Mycotoxins**	**7/29/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000153147	7/28/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	07/22/2021 @ 10:29 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	4.2 - 138.3	ND
Aflatoxin B1	1.1 - 35	ND
Aflatoxin B2	1.1 - 35	ND
Aflatoxin G1	1.2 - 33.6	ND
Aflatoxin G2	1.2 - 33.2	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Sam Smith
29-Jul-21
8:42 AM
PREPARED BY / DATE

Chris Jungling
29-Jul-21
3:32 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

Certificate #4329.02

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SG25M

Batch ID or Lot Number:	Test:	Reported:
21E0000845	**Residual Solvents**	**7/28/21**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000153146	7/27/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents (Colorado Panel)	07/22/2021 @ 10:29 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	140 - 2796	*ND
Butanes (Isobutane, n-Butane)	330 - 6602	*ND
Methanol	116 - 2325	*ND
Pentane	159 - 3176	*ND
Ethanol	180 - 3610	*ND
Acetone	181 - 3628	*ND
Isopropyl Alcohol	195 - 3892	*ND
Hexane	11 - 218	*ND
Ethyl Acetate	182 - 3649	*ND
Benzene	0 - 7	*ND
Heptanes	173 - 3462	*ND
Toluene	33 - 662	*ND
Xylenes (m,p,o-Xylenes)	242 - 4833	*ND

Notes

Taylor Brevik
28-Jul-21
1:15 PM
PREPARED BY / DATE

Sam Smith
28-Jul-21
1:19 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

Certificate #4329.02

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