## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CBD Softgels with Melatonin

PRODUCT STRENGTH: 25 mg CBD / 3 mg Melatonin / 3mg CBN

 TINCTURE BATCH:
 21236B

 BEST BY DATE:
 06/25/2023

 HEMP EXTRACT LOT:
 21E0000847

## \*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	*NTL 25 mg / softgel	31.98 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	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 Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS

\*\*Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram \*Nothing Less Than 10^2=100 CFU 10^3=1,000 CFU

Quality Certified

Kayla Kolber
Kayla Kolber

08/30/2021

Date

Quality Assurance Technician



## **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

**Notes** 

# of Servings = 1 Sample Weight=0.57g

#### SG25M

Batch ID or Lot Number: Test: Reported: 21E0000847

7/30/21 **Potency** 

Matrix: Test ID: Started: **USDA License:** 

Unit T000153154 7/28/21 N/A

Sampler ID: Status: Method: Received:

TM14 (HPLC-DAD): Potency - Broad N/A 07/22/2021 @ 10:29 AM N/A

(Colorado Panel)

Spectrum Analysis, 0.01% THC

### **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	31.979	56.07
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	3.721	6.52
Cannabigerolic acid (CBGA)	0.069	0.201	ND	ND
Cannabigerol (CBG)	0.017	0.048	2.080	3.65
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	0.049*	0.09*
Cannabichromenic Acid (CBCA)	0.027	0.078	ND	ND
Cannabichromene (CBC)	0.029	0.085	ND	ND

Total Cannabinoids	37.829	66.33
Total Potential THC**	ND	ND
Total Potential CBD**	31.979	56.07

Ryan Weems 30-Jul-2021 09:48 AM

Taylor Brevik 30-Jul-21 9:53 AM

PREPARED BY / DATE

APPROVED 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).

\*\* 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)

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Certificate #4329.02



#### SG25M

Batch ID:	21E0000847	Test ID:	T000153155
Туре:	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	47 - 2633	ND*
Acetamiprid	45 - 2633	ND*
Abamectin	>288	ND*
Azoxystrobin	46 - 2633	ND*
Bifenazate	43 - 2633	ND*
Boscalid	45 - 2633	ND*
Carbaryl	44 - 2633	ND*
Carbofuran	48 - 2633	ND*
Chlorantraniliprole	56 - 2633	ND*
Chlorpyrifos	49 - 2633	ND*
Clofentezine	306 - 2633	ND*
Diazinon	312 - 2633	ND*
Dichlorvos	>265	ND*
Dimethoate	45 - 2633	ND*
E-Fenpyroximate	362 - 2633	ND*
Etofenprox	45 - 2633	ND*
Etoxazole	334 - 2633	ND*
Fenoxycarb	>45	ND*
Fipronil	54 - 2633	ND*
Flonicamid	47 - 2633	ND*
Fludioxonil	>307	ND*
Hexythiazox	41 - 2633	ND*
Imazalil	294 - 2633	ND*
Imidacloprid	48 - 2633	ND*
Kresoxim-methyl	49 - 2633	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	317 - 2633	ND*
Metalaxyl	44 - 2633	ND*
Methiocarb	43 - 2633	ND*
Methomyl	46 - 2633	ND*
MGK 264 1	181 - 2633	ND*
MGK 264 2	129 - 2633	ND*
Myclobutanil	49 - 2633	ND*
Naled	49 - 2633	ND*
Oxamyl	42 - 2633	ND*
Paclobutrazol	48 - 2633	ND*
Permethrin	302 - 2633	ND*
Phosmet	44 - 2633	ND*
Prophos	280 - 2633	ND*
Propoxur	47 - 2633	ND*
Pyridaben	342 - 2633	ND*
Spinosad A	32 - 2633	ND*
Spinosad D	89 - 2633	ND*
Spiromesifen	>305	ND*
Spirotetramat	>341	ND*
Spiroxamine 1	19 - 2633	ND*
Spiroxamine 2	25 - 2633	ND*
Tebuconazole	348 - 2633	ND*
Thiacloprid	44 - 2633	ND*
Thiamethoxam	45 - 2633	ND*
Trifloxystrobin	46 - 2633	ND*

N/A

## FINAL APPROVAL

Toph Bail

Tavlor Brevik 28-lul-2021 9:34 AM

Samantha Smill

Sam Smith 28-Iul-2021 9:37 AM

PREPARED BY / DATE

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<sup>\*</sup> ND = None Detected (Defined by Dynamic Range of the method)



# **Official Compliance: Colorado**

## CERTIFICATE OF ANALYSIS

#### SG25M

Batch ID or Lot Number: Test: Reported: **Microbial** 21236B 8/28/21

**Contaminants** 

Matrix: Test ID: Started: **USDA License:** 

Finished Product T000159819 8/25/21 N/A

Received: Sampler ID: Status: Methods:

TM25 (gPCR) 08/25/2021 @ 10:11 AM N/A N/A

TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

### 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

om visual mold, v, and foreign

Broanne Maillot

**Brianne Maillot** 8/28/2021 10:15:00 AM

**Courtney Richards** 8/28/2021 9:54:00 PM

PREPARED BY / DATE

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.

10^2 = 100 CFU Examples:

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



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# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

#### SG25M

Batch ID or Lot Number: <b>21E0000847</b>	Test: <b>Metals</b>	Reported: <b>8/4/21</b>	
Matrix: Unit Co	Test ID: T000153157	Started: 7/28/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 07/22/2021 @ 10:29 AM	Sampler ID: N/A

### **HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes  Amendment to certificate
Arsenic	0.052 - 5.23	ND	T000153157, certificate updated to
Cadmium	0.044 - 4.42	ND	Colorado Compliance format.
Mercury	0.044 - 4.38	ND	Colorado Compliance format.
Lead	0.044 - 4.37	ND	

n Neurs

Ryan Weems 4-Aug-21 10:45 AM

Sawantha Smow

Sam Smith 4-Aug-21 10:53 AM

PREPARED BY / DATE

APPROVED BY / DATE

#### **Definitions**

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



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## **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

#### SG25M

Batch ID or Lot Number: <b>21E0000847</b>	Test:  Mycotoxins	Reported: <b>7/29/21</b>	
Matrix: Concentrate	Test ID: T000153159	Started: 7/28/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 07/22/2021 @ 10:29 AM	Sampler ID: N/A

## MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.9 - 128.4	ND	N/A
Aflatoxin B1	1 - 32.5	ND	
Aflatoxin B2	1.1 - 32.5	ND	
Aflatoxin G1	1.1 - 31.2	ND	
Aflatoxin G2	1.2 - 30.8	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Small

Sam Smith 29-Jul-21 8:42 AM

Chris Jungling 29-Jul-21 3:32 PM

APPROVED BY / DATE

# PREPARED BY / DATE

**Definitions** 

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

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CDPHE Certified







# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

#### SG25M

Batch ID or Lot Number: <b>21E0000847</b>	Test: Residual Solvents	Reported: <b>7/28/21</b>	
Matrix: N/A	Test ID: T000153158	Started: 7/27/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ats 07/22/2021 @ 10:29 AM	Sampler ID: N/A

## **RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1352	*ND	
Butanes (Isobutane, n-Butane)	160 - 3194	*ND	
Methanol	56 - 1125	*ND	
Pentane	77 - 1537	*ND	
Ethanol	87 - 1747	*ND	
Acetone	88 - 1755	*ND	
Isopropyl Alcohol	94 - 1883	*ND	
Hexane	5 - 105	*ND	
Ethyl Acetate	88 - 1766	*ND	
Benzene	0 - 3	*ND	
Heptanes	84 - 1675	*ND	
Toluene	16 - 320	*ND	
Xylenes	117 2220	+ND	
(m,p,o-Xylenes)	117 - 2338	*ND	

Type Bail

Taylor Brevik 28-Jul-21 1:15 PM

Samantha Smol

Sam Smith 28-Jul-21 1:19 PM

PREPARED BY / DATE

APPROVED BY / DATE

#### **Definitions**

Laboratories, LLC.

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

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