CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Cream

PRODUCT STRENGTH: 250 mg / bottle

BATCH: 21251-14 **BEST BY DATE:** 09/18/2023 **HEMP EXTRACT LOT:** CO623-001

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	off white to light cream	PASS
Odor	Internal	Neutral with light hemp/CBD oil scent	PASS
Appearance	Internal	Medium viscosity skin cream in white container with clear cap	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and tamper evident label 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	$LOQ*: \ge 250 \text{ mg / bottle}$	270.31 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	Below LOQ	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 **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 Certified

Kayla Kolber Kayla Kolber

10/05/2021

Date

Quality Assurance Technician



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Notes N/A

Density: 0.90 g/mL

HPC250

Batch ID or Lot Number: Test: Reported: 21251-14 Potency 9/30/21

Matrix: Test ID: Started: USDA License:

Concentrate T000164698 9/29/21 N/A

Status: Method: Received: Sampler ID:

N/A TM14 (HPLC-DAD): Potency - Broad 09/22/2021 @ 10:36 AM N/A Spectrum Analysis, 0.01% THC

(Colorado Panel)

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND
Cannabidiolic acid (CBDA)	0.015	0.052	ND	ND
Cannabidiol (CBD)	0.015	0.051	1.000	10.00
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.022	0.058	ND	ND
Cannabinolic Acid (CBNA)	0.013	0.033	ND	ND
Cannabinol (CBN)	0.006	0.015	ND	ND
Cannabigerolic acid (CBGA)	0.019	0.048	ND	ND
Cannabigerol (CBG)	0.004	0.012	0.090	0.90
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.041	ND	ND
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND
Cannabidivarinic Acid (CBDVA)	0.006	0.022	ND	ND
Cannabidivarin (CBDV)	0.004	0.012	ND	ND
Cannabichromenic Acid (CBCA)	0.007	0.019	ND	ND
Cannabichromene (CBC)	0.008	0.020	ND	ND

Total Cannabinoids	1.090	10.90
Total Potential THC**	ND	ND
Total Potential CBD**	1.000	10.00

Karen Winternheimer 30-Sep-21

4:50 PM

APPROVED BY / DATE

Daniel Westersand

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).

30-Sep-2021

04:48 PM

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 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.



CDPHE Certified





HPC250

 Batch ID or Lot Number:
 Test:
 Reported:

 21251-14
 Pesticides
 9/29/21

 Matrix:
 Test ID:
 Started:
 USDA License:

 Concentrate
 t000164699
 9/28/21
 N/A

Status: Method: Received: Sampler ID: N/A TM17(LC-QQQ LC MS/MS): 09/22/2021 @ 10:36 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			

Somantha Smold

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

Courtny Richards

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

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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HPC250

Batch ID or Lot Number: Reported: Test: 21251-14 **Microbial** 9/25/21

Contaminants

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

Finished Product T000164700 9/22/21 N/A

Sampler ID: Status: Methods: Received:

TM25 (qPCR) N/A 09/22/2021 @ 10:36 AM 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

Notes

Free from visual mold, mildew, and foreign matter

PREPARED BY / DATE

Jackson Osaghae-Nosa 9/25/2021

1:53:00 PM

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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Certificate #4329 02



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HPC250

Batch ID or Lot Number: 21251-14	Test: Metals	Reported: 9/30/21	
Matrix: Unit Co	Test ID: T000164701	Started: 9/29/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/22/2021 @ 10:36 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

	Dynamic Range (ppm)	Result (ppm)	
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

Samantha Small

Sam Smith 30-Sep-21 1:02 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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



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HPC250

Batch ID or Lot Number: Test: Reported: 21251-14 Mycotoxins 10/1/21

Matrix: Test ID: Started: USDA License:

Concentrate T000164703 9/29/21 N/A

Status: Method: Received: Sampler ID:

N/A TM18 (UHPLC-QQQ LCMS/MS): 09/22/2021 @ 10:36 AM N/A

Mycotoxins (Colorado Panel)

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.7 - 125.9	ND	N/A
Aflatoxin B1	1 - 32.2	ND	
Aflatoxin B2	1.1 - 31.9	ND	
Aflatoxin G1	0.9 - 31.8	ND	
Aflatoxin G2	1.1 - 30.7	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smot

Sam Smith 30-Sep-21 11:46 AM

Caushy lichols

Courtney Richards 1-Oct-21 8:35 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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.



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HPC250

 Batch ID or Lot Number:
 Test:
 Reported:

 21251-14
 Residual Solvents
 10/1/21

 Matrix:
 Test ID:
 Started:
 USDA License:

 N/A
 T000164702
 9/30/21
 N/A

Status: Methods: Received: Sampler ID:

N/A TM04 (GC-MS): Residual Solvents 09/22/2021 @ 10:36 AM N/A

(Colorado Panel)

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	89 - 1787	*ND	
Butanes	177 2520	*ND	
(Isobutane, n-Butane)	177 - 3539	^ND	
Methanol	67 - 1344	*ND	
Pentane	94 - 1889	*ND	
Ethanol	104 - 2085	*ND	
Acetone	106 - 2122	*ND	
Isopropyl Alcohol	114 - 2279	135	
Hexane	6 - 129	*ND	
Ethyl Acetate	108 - 2170	*ND	
Benzene	0 - 4	*ND	
Heptanes	101 - 2017	*ND	
Toluene	20 - 393	*ND	
(m.n.o-Xylenes)	145 - 2895	*ND	

4619

Hannah Wright 1-Oct-21 10:29 AM

Mygun News

Ryan Weems 1-Oct-21 10:31 AM

PREPARED BY / DATE APPROVED BY / DATE

Definitions

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

CDPHE COPHE

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