



CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic - CBD Tincture - Mint
PRODUCT STRENGTH: 2250 mg / bottle
TINCTURE BATCH: 22033A
BEST BY DATE: 8/2/2023
HEMP EXTRACT LOT: C0819-001

Click on the links to view third-party reports

Physical Attributes

| Test | Method | Specification | Results |
|-------------------------|----------|--|---------|
| Color | Internal | Golden to Amber. | PASS |
| Odor | Internal | Characteristic - Olive and Hemp, Minty. | PASS |
| Appearance | Internal | Golden to Amber oil in brown glass bottle with dropper. | 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 |

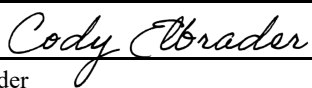
Review of Third-Party Analysis

| Panel | Method | Specification | Results* | Pass/Fail |
|---|-----------------|--|-------------------|-----------|
| Potency - Total CBD | HPLC-UV DAD | LOQ**: ≥ 2250 mg / bottle | 2787.07 mg | PASS |
| Potency - D9-THC | HPLC-UV DAD | LOQ: $<0.01\%$ (broad spectrum) | Below LOQ | PASS |
| 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†† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb | 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


 Cody Elbrader
 Quality Assurance Technician

02/8/2022

Date

Batch ID or Lot Number: **C0819-001** Test: **Potency** Reported: **8/30/21**


Matrix: Test ID: Started: USDA License:
 Unit T000158869 8/27/21 N/A

Status: Method: Received: Sampler ID:
 N/A TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel) 08/20/2021 @ 01:50 PM N/A

CANNABINOID PROFILE

| Compound | LOD (mg) | LOQ (mg) | Result (mg) | Result (mg/g) | Notes |
|--|----------|----------|-----------------|---------------|--|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 11.429 | 39.121 | ND | ND | # of Servings = 1 Sample Weight=30g |
| Delta 9-Tetrahydrocannabinol (Delta 9THC) | 12.899 | 44.154 | ND | ND | |
| Cannabidiolic acid (CBDA) | 16.632 | 46.600 | ND | ND | |
| Cannabidiol (CBD) | 16.216 | 45.435 | 2787.071 | 92.90 | |
| Delta 8-Tetrahydrocannabinol (Delta 8THC) | 14.203 | 48.618 | ND | ND | |
| Cannabinolic Acid (CBNA) | 8.134 | 27.843 | ND | ND | |
| Cannabinol (CBN) | 3.721 | 12.735 | ND | ND | |
| Cannabigerolic acid (CBGA) | 11.922 | 40.809 | ND | ND | |
| Cannabigerol (CBG) | 2.852 | 9.762 | 173.980 | 5.80 | |
| Tetrahydrocannabivarinic Acid (THCVA) | 10.081 | 34.506 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 2.594 | 8.879 | ND | ND | |
| Cannabidivarinic Acid (CBDVA) | 6.938 | 19.439 | ND | ND | |
| Cannabidivarin (CBDV) | 3.835 | 10.746 | 8.714* | 0.29* | |
| Cannabichromenic Acid (CBCA) | 4.594 | 15.726 | ND | ND | |
| Cannabichromene (CBC) | 5.023 | 17.194 | 6.574* | 0.22* | |
| Total Cannabinoids | | | 2976.339 | 99.21 | |
| Total Potential THC** | | | ND | ND | |
| Total Potential CBD** | | | 2787.071 | 92.90 | |

 Daniel Weidensaul
 30-Aug-2021
 04:14 PM

 Ryan Weems
 30-Aug-21
 4:15 PM

PREPARED BY / DATE

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)

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



Certificate #4329.02

Batch ID or Lot Number: **C0819-001** Test: **Pesticides** Reported: **8/26/21**

Matrix: Concentrate Test ID: T000158870 Started: 8/24/21 USDA License: N/A

Status: N/A Method: TM17(LC-QQQ LC MS/MS): Received: 08/20/2021 @ 01:50 PM Sampler ID: N/A

PESTICIDE DETERMINATION

| Compound | LOQ (ppb) | Result (ppb) | Compound | LOQ (ppb) | Result (ppb) | Compound | LOQ (ppb) | Result (ppb) |
|---------------------|-----------|--------------|-----------------|-----------|--------------|-----------------|-----------|--------------|
| Acephate | 28 | ND | Fenoxycarb | 41 | ND | Paclobutrazol | 43 | ND |
| Acetamiprid | 30 | ND | Fipronil | 55 | ND | Permethrin | 309 | ND |
| Avermectin | 273 | ND | Flonicamid | 58 | ND | Phosmet | 28 | ND |
| Azoxystrobin | 38 | ND | Fludioxonil | 370 | ND | Prophos | 370 | ND |
| Bifenazate | 42 | ND | Hexythiazox | 28 | ND | Propoxur | 34 | ND |
| Boscalid | 41 | ND | Imazalil | 293 | ND | Pyridaben | 291 | ND |
| Carbaryl | 31 | ND | Imidacloprid | 31 | ND | Spinosad A | 30 | ND |
| Carbofuran | 33 | ND | Kresoxim-methyl | 150 | ND | Spinosad D | 60 | ND |
| Chlorantraniliprole | 16 | ND | Malathion | 308 | ND | Spiromesifen | 226 | ND |
| Chlorpyrifos | 500 | ND | Metaxyl | 39 | ND | Spirotetramat | 334 | ND |
| Clofentezine | 287 | ND | Methiocarb | 42 | ND | Spiroxamine 1 | 21 | ND |
| Diazinon | 292 | ND | Methomyl | 29 | ND | Spiroxamine 2 | 22 | ND |
| Dichlorvos | 300 | ND | MGK 264 1 | 175 | ND | Tebuconazole | 339 | ND |
| Dimethoate | 39 | ND | MGK 264 2 | 138 | ND | Thiacloprid | 36 | ND |
| E-Fenpyroximate | 274 | ND | Myclobutanil | 13 | ND | Thiamethoxam | 34 | ND |
| Etofenprox | 40 | ND | Naled | 42 | ND | Trifloxystrobin | 35 | ND |
| Etoxazole | 301 | ND | Oxamyl | 1500 | ND | | | |

Samantha Smith
 Sam Smith
 8/26/2021
 4:08:00 PM

PREPARED BY / DATE

K Winterheimer
 Karen Winterheimer
 8/26/2021
 4:11:00 PM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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.



Certificate #4329.02

OTM2250

| | | |
|--|--|----------------------------|
| Batch ID or Lot Number: 22033A | Test: Microbial Contaminants | Reported: 2/7/22 |
|--|--|----------------------------|

| | | | |
|-----------------------------|------------------------|--------------------|----------------------|
| Matrix: Finished Product | Test ID: T000190945 | Started: 2/4/22 | USDA License: N/A |
|-----------------------------|------------------------|--------------------|----------------------|

| | | | |
|----------------|---|------------------------------------|--------------------|
| Status: N/A | Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel) | Received: 02/04/2022 @ 10:55 AM | 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, mildew, and foreign matter |
| 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 | |

Eden Thompson
 Eden Thompson-Wright
 2/7/2022
 4:31:00 PM

Brett Hudson
 Brett Hudson
 2/7/2022
 4:39:00 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.

Examples:
 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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



Certificate #4329.02

Batch ID or Lot Number: **C0819-001** Test: **Mycotoxins** Reported: **9/1/21**

Matrix: Concentrate Test ID: T000158874 Started: 8/31/21 USDA License: N/A

Status: N/A Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel) Received: 08/20/2021 @ 01:50 PM Sampler ID: N/A

MYCOTOXIN DETERMINATION

| Compound | Dynamic Range (ppb) | Result (ppb) | Notes |
|--|---------------------|--------------|-------|
| Ochratoxin A | 3.2 - 131.7 | ND | N/A |
| Aflatoxin B1 | 1.2 - 33.7 | ND | |
| Aflatoxin B2 | 1.2 - 33.2 | ND | |
| Aflatoxin G1 | 1.1 - 32.7 | ND | |
| Aflatoxin G2 | 1.2 - 33.5 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Samantha Smith
 Sam Smith
 1-Sep-21
 1:46 PM

PREPARED BY / DATE

Alex Smith
 Alex Smith
 1-Sep-21
 1:59 PM

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.



CDPHE Certified



Certificate #4329.02

Batch ID or Lot Number: **C0819-001** Test: **Residual Solvents** Reported: **8/27/21**

Matrix: N/A Test ID: T000158873 Started: 8/26/21 USDA License: N/A

Status: N/A Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel) Received: 08/20/2021 @ 01:50 PM Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

| Solvent | Dynamic Range (ppm) | Result (ppm) | Notes |
|----------------------------------|---------------------|--------------|-------|
| Propane | 76 - 1516 | *ND | |
| Butanes (Isobutane, n-Butane) | 145 - 2895 | *ND | |
| Methanol | 55 - 1095 | *ND | |
| Pentane | 80 - 1606 | *ND | |
| Ethanol | 87 - 1748 | *ND | |
| Acetone | 91 - 1823 | *ND | |
| Isopropyl Alcohol | 98 - 1964 | *ND | |
| Hexane | 6 - 111 | *ND | |
| Ethyl Acetate | 92 - 1836 | *ND | |
| Benzene | 0 - 4 | *ND | |
| Heptanes | 87 - 1741 | *ND | |
| Toluene | 17 - 332 | *ND | |
| Xylenes (m,p,o-Xylenes) | 120 - 2399 | *ND | |



Ryan Weems
27-Aug-21
11:52 AM



Sam Smith
27-Aug-21
12:05 PM

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.



CDPHE Certified



Certificate #4329.02