

CERTIFICATE OF ANALYSIS

PRODUCT NAME: *Organic - CBD Tincture - Key Lime"

PRODUCT STRENGTH: 900 mg / bottle

TINCTURE BATCH: 22073B **BEST BY DATE:** 9/10/2023 **HEMP EXTRACT LOT:** CO727-001

Click on the links to view third-party reports

Physical Atttributes

| Test | Method | Specification | Results |
|-------------------------|----------|---|---------|
| Color | Internal | Golden to Amber. | PASS |
| Odor | Internal | Characteristic - Coconut and Hemp, Key Lime. | 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 | $LOQ*: \ge 450 \text{ mg} / \text{bottle}$ | 963.63 mg | PASS |
| Potency - D9-THC | HPLC-UV DAD | LOQ: <0.3% total THC (Full spectrum) | 0.097 | 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†† Afltoxin B1 < 20 ppb Ochratoxin < 20 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

Date

03/15/2022

Quality Assurance Technician

Cody Clorader



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

27275

Batch ID or Lot Number: Test: Reported: C0727-001 8/17/21 **Potency**

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

Solution T000155479 8/12/21 N/A

Sampler ID: Status: Method: Received:

TM14 (HPLC-DAD): Potency -N/A 08/05/2021 @ 12:37 PM N/A Standard Cannabinoid Analysis

(Colorado Panel)

CANNABINOID PROFILE

| Compound | LOD (mg/mL) | LOQ (mg/mL) | Result (mg/mL) | Result (mg/g) | Nieko |
|--|-------------|-------------|----------------|---------------|---------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 0.132 | 0.438 | ND | ND | Notes |
| Delta 9-Tetrahydrocannabinol (Delta 9THC) | 0.149 | 0.494 | 0.970 | 1.03 | Density |
| Cannabidiolic acid (CBDA) | 0.220 | 0.524 | ND | ND | , |
| Cannabidiol (CBD) | 0.214 | 0.511 | 32.121 | 33.99 | |
| Delta 8-Tetrahydrocannabinol (Delta 8THC) | 0.164 | 0.544 | ND | ND | |
| Cannabinolic Acid (CBNA) | 0.094 | 0.312 | ND | ND | |
| Cannabinol (CBN) | 0.043 | 0.143 | 0.098* | 0.1* | |
| Cannabigerolic acid (CBGA) | 0.138 | 0.457 | ND | ND | |
| Cannabigerol (CBG) | 0.033 | 0.109 | 2.561 | 2.71 | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.116 | 0.386 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.030 | 0.099 | ND | ND | |
| Cannabidivarinic Acid (CBDVA) | 0.092 | 0.218 | ND | ND | |
| Cannabidivarin (CBDV) | 0.051 | 0.121 | 0.183 | 0.19 | |
| Cannabichromenic Acid (CBCA) | 0.053 | 0.176 | ND | ND | |
| Cannabichromene (CBC) | 0.058 | 0.192 | ND | ND | |
| Total Cannabinoids | | | 35.933 | 38.02 | |
| Total Potential THC** | | | 0.970 | 1.03 | |

Taylor Brevik 17-Aug-21 1:56 PM

32.121

33.99



PREPARED BY / DATE

Total Potential CBD**

Daniel Weidensaul 17-Aug-2021 01:50 PM

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)

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.



0.945g/mL







27275

| Batch ID or Lot Number: C0727-001 | Test: Pesticides | Reported: 8/11/21 | |
|-----------------------------------|------------------------|--------------------------|---------------|
| Matrix: | Test ID: | Started: | USDA License: |
| Concentrate | T000155480 | 8/10/21 | N/A |
| Status: | Method: | Received: | Sampler ID: |
| N/A | TM17(LC-QQQ LC MS/MS): | 08/05/2021 @ 12:37 PM | N/A |

PESTICIDE DETERMINATION

| Compound | LOQ (ppm) | Result (ppm) | Compound | LOQ (ppm) | Result (ppm) | Compound | LOQ (ppm) | Result (ppm) |
|---------------------|-----------|--------------|-----------------|-----------|--------------|-----------------|-----------|--------------|
| Acephate | 54 | ND | Fenoxycarb | 54 | ND | Paclobutrazol | 54 | ND |
| Acetamiprid | 54 | ND | Fipronil | 54 | ND | Permethrin | 324 | ND |
| Avermectin | 324 | ND | Flonicamid | 54 | ND | Phosmet | 54 | ND |
| Azoxystrobin | 54 | ND | Fludioxonil | 324 | ND | Prophos | 324 | ND |
| Bifenazate | 54 | ND | Hexythiazox | 54 | ND | Propoxur | 54 | ND |
| Boscalid | 54 | ND | Imazalil | 324 | ND | Pyridaben | 324 | ND |
| Carbaryl | 54 | ND | Imidacloprid | 54 | ND | Spinosad A | 54 | ND |
| Carbofuran | 54 | ND | Kresoxim-methyl | 150 | ND | Spinosad D | 324 | ND |
| Chlorantraniliprole | 54 | ND | Malathion | 324 | ND | Spiromesifen | 324 | ND |
| Chlorpyrifos | 500 | ND | Metalaxyl | 54 | ND | Spirotetramat | 324 | ND |
| Clofentezine | 324 | ND | Methiocarb | 54 | ND | Spiroxamine 1 | 54 | ND |
| Diazinon | 324 | ND | Methomyl | 54 | ND | Spiroxamine 2 | 54 | ND |
| Dichlorvos | 324 | ND | MGK 264 1 | 324 | ND | Tebuconazole | 324 | ND |
| Dimethoate | 54 | ND | MGK 264 2 | 324 | ND | Thiacloprid | 54 | ND |
| E-Fenpyroximate | 324 | ND | Myclobutanil | 54 | ND | Thiamethoxam | 54 | ND |
| Etofenprox | 54 | ND | Naled | 54 | ND | Trifloxystrobin | 54 | ND |
| Etoxazole | 324 | ND | Oxamyl | 1500 | ND | | | |

Toph Bail

Taylor Brevik 8/11/2021 4:08:00 PM

Samantha Smoll

Sam Smith 8/11/2021 4:11:00 PM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Certificate #4329.02



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

OFTKL900

Batch ID or Lot Number: Reported: Test: 22073B **Microbial** 3/14/22

Contaminants

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

Finished Product T000197762 3/11/22 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 03/11/2022 @ 11:17 AM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial

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 | 10^1 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 |
| STEC | TM-25, PCR | 10^0 CFU/25 g | NA | NA | Absent |
| Salmonella | TM-25, PCR | 10^0 CFU/25 g | NA | NA | Absent |

Notes

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa 3/14/2022

3:29:00 PM

Eden Thompson

Eden Thompson-Wright 3/14/2022 4:22:00 PM

APPROVED BY / DATE PREPARED 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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27275

| Batch ID or Lot Number: C0727-001 | Test: Metals | Reported: 8/13/21 | |
|--|--|------------------------------------|----------------------|
| Matrix: Unit Co | Test ID: T000155482 | Started: 8/12/21 | USDA License: N/A |
| Status: N/A | Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel) | Received: 08/05/2021 @ 12:37 PM | Sampler ID: N/A |

HEAVY METALS DETERMINATION

| Compound | Dynamic Range (ppb) | Result (ppb) | Notes |
|----------|---------------------|--------------|-------|
| Arsenic | 0.044 - 4.39 | ND | |
| Cadmium | 0.048 - 4.78 | ND | |
| Mercury | 0.044 - 4.38 | ND | |
| Lead | 0.044 - 4.38 | ND | |

Samantha Smoll

Sam Smith 13-Aug-21 1:11 PM

Daniel Wartonsand

Daniel Weidensaul 13-Aug-21 1:14 PM

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Definitions

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



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27275

| Batch ID or Lot Number: C0727-001 | Test: Mycotoxins | Reported: 8/12/21 | |
|--|---|------------------------------------|----------------------|
| Matrix: Concentrate | Test ID: T000155484 | Started: 8/11/21 | USDA License: N/A |
| Status: N/A | Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel) | Received: 08/05/2021 @ 12:37 PM | Sampler ID: N/A |

MYCOTOXIN DETERMINATION

| Compound | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A | 5.2 - 139.9 | ND | N/A |
| Aflatoxin B1 | 1 - 36.2 | ND | |
| Aflatoxin B2 | 1.1 - 35.4 | ND | |
| Aflatoxin G1 | 1 - 35.6 | ND | |
| Aflatoxin G2 | 1.2 - 34.3 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |
| | | | |

Toph Bil

Taylor Brevik 12-Aug-21 2:47 PM

Samantha Smill

Sam Smith 12-Aug-21 2:50 PM

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Definitions

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

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CDPHE Certified





Certificate #4329.02



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27275

| Batch ID or Lot Number: C0727-001 | Test: Residual Solvents | Reported: 8/12/21 | | |
|-----------------------------------|---|---------------------------------------|----------------------|--|
| Matrix: N/A | Test ID: T000155483 | Started: 8/11/21 | USDA License: N/A | |
| Status: N/A | Methods: TM04 (GC-MS): Residual Solven (Colorado Panel) | Received: ts 08/05/2021 @ 12:37 PM | Sampler ID: N/A | |

RESIDUAL SOLVENTS DETERMINATION

| Solvent | Dynamic Range (ppm) | Result (ppm) | Notes |
|----------------------------------|---------------------|--------------|-------|
| Propane | 79 - 1585 | *ND | |
| Butanes (Isobutane, n-Butane) | 149 - 2976 | *ND | |
| Methanol | 55 - 1102 | *ND | |
| Pentane | 81 - 1628 | *ND | |
| Ethanol | 87 - 1740 | *ND | |
| Acetone | 90 - 1792 | *ND | |
| Isopropyl Alcohol | 99 - 1978 | *ND | |
| Hexane | 6 - 110 | *ND | |
| Ethyl Acetate | 91 - 1819 | *ND | |
| Benzene | 0 - 4 | *ND | |
| Heptanes | 86 - 1728 | *ND | |
| Toluene | 16 - 329 | *ND | |
| Xylenes | 121 - 2429 | *ND | |
| (m,p,o-Xylenes) | 121 - 2429 | "IND | |

L Winternheimer

Karen Winternheimer

12-Aug-21 3:07 PM Myour News

Ryan Weems 12-Aug-21 3:09 PM

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Definitions

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

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CDPHE Certified



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