

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic CBD Tincture - Orange

12/18/2025

PRODUCT STRENGTH: 1350mg
TINCTURE BATCH: 231218B

BEST BY DATE:

HEMP EXTRACT LOT: O2PH200022001-PSB01

Physical Atttributes

| Test | Method | Specification | Results |
|-------------------------|--------------|---|---------|
| Color | Joy Internal | Golden to Amber | PASS |
| Odor | Joy Internal | Characteristic - Coconut and Hemp, Lemon | PASS |
| Appearance | Joy Internal | Golden to Amber oil in brown glass bottle with dropper. | PASS |
| Primary Package Eval. | Joy Internal | Container clean and free of filth. Container caps tight and shrink bands intact | PASS |
| Secondary Package Eval. | Joy 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 | *NLT (product strength) mg / bottle | 45.9mg | 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

Color

1/11/2024

Date



CERTIFICATE OF ANALYSIS

1350mg Orange Tincture

| Batch ID or Lot Number: 231218B | Test: Potency | Reported: 28Dec2022 | USDA License: N/A |
|------------------------------------|---|---------------------|----------------------|
| Matrix: | Test ID: | Started: | Sampler ID: |
| Concentrate | T000231576 | 28Dec2022 | N/A |
| | Method(s): | Received: | Status: |
| | TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis | 27Dec2022 | Active |

| Cannabinoids | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) |
|--|---------|---------|------------|---------------|
| Cannabichromene (CBC) | 0.006 | 0.021 | ND | ND |
| Cannabichromenic Acid (CBCA) | 0.005 | 0.019 | ND | ND |
| Cannabidiol (CBD) | 0.022 | 0.059 | 4.834 | 48.34 |
| Cannabidiolic Acid (CBDA) | 0.023 | 0.060 | ND | ND |
| Cannabidivarin (CBDV) | 0.005 | 0.014 | 0.025 | 0.25 |
| Cannabidivarinic Acid (CBDVA) | 0.009 | 0.025 | ND | ND |
| Cannabigerol (CBG) | 0.003 | 0.012 | ND | ND |
| Cannabigerolic Acid (CBGA) | 0.014 | 0.050 | ND | ND |
| Cannabinol (CBN) | 0.004 | 0.016 | ND | ND |
| Cannabinolic Acid (CBNA) | 0.010 | 0.034 | ND | ND |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.017 | 0.060 | ND | ND |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.015 | 0.054 | ND | ND |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.014 | 0.048 | ND | ND |
| Tetrahydrocannabivarin (THCV) | 0.003 | 0.011 | ND | ND |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.012 | 0.043 | ND | ND |
| Total Cannabinoids | | | 4.859 | 48.59 |
| Total Potential THC | | | ND | ND |
| Total Potential CBD | | | 4.834 | 48.34 |

Final Approval

PREPARED BY / DATE

Sam Smith 28Dec2022 01:40:00 PM MST

APPROVED BY / DATE

Karen Winternheimer 28Dec2022 01:49:00 PM MST



https://results.botanacor.com/api/v1/coas/uuid/29ee7bf8-06e4-45c3-8684-896b5e990868

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.











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Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 06/20/2022 continued **⊘** PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (μg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Chlordane* | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Chlorfenapyr* | 0.03/0.10 | ≥ LOD | N/A | ND | PASS |
| Chlorpyrifos | 0.02/0.06 | ≥ LOD | N/A | ND | PASS |
| Clofentezine | 0.03/0.09 | 0.1 | N/A | ND | PASS |
| Coumaphos | 0.02/0.07 | ≥ LOD | N/A | ND | PASS |
| Cyfluthrin | 0.12/0.38 | 2 | N/A | ND | PASS |
| Cypermethrin | 0.11/0.32 | 1 | N/A | ND | PASS |
| Daminozide | 0.02/0.07 | ≥LOD | N/A | ND | PASS |
| Diazinon | 0.02/0.05 | 0.1 | N/A | ND | PASS |
| Dichlorvos (DDVP) | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Dimethoate | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Dimethomorph | 0.03/0.09 | 2 | N/A | ND | PASS |
| Ethoprophos | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| Etofenprox | 0.02/0.06 | ≥ LOD | N/A | ND | PASS |
| Etoxazole | 0.02/0.06 | 0.1 | N/A | ND | PASS |
| Fenhexamid | 0.03/0.09 | 0.1 | N/A | ND | PASS |
| Fenoxycarb | 0.03 / 0.08 | ≥LOD | N/A | ND | PASS |
| Fenpyroximate | 0.02/0.06 | 0.1 | N/A | ND | PASS |
| Fipronil | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Flonicamid | 0.03/0.10 | 0.1 | N/A | ND | PASS |
| Fludioxonil | 0.03/0.10 | 0.1 | N/A | ND | PASS |
| Hexythiazox | 0.02/0.07 | 0.1 | N/A | ND | PASS |
| lmazalil | 0.02/0.06 | ≥ LOD | N/A | ND | PASS |
| lmidacloprid | 0.04/0.11 | 5 | N/A | ND | PASS |
| Kresoxim-methyl | 0.02/0.07 | 0.1 | N/A | ND | PASS |
| Malathion | 0.03/0.09 | 0.5 | N/A | ND | PASS |
| Metalaxyl | 0.02/0.07 | 2 | N/A | ND | PASS |
| Methiocarb | 0.02/0.07 | ≥ LOD | N/A | ND | PASS |
| Methomyl | 0.03/0.10 | 1 | N/A | ND | PASS |
| Mevinphos | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Myclobutanil | 0.03/0.09 | 0.1 | N/A | ND | PASS |
| Naled | 0.02/0.07 | 0.1 | N/A | ND | PASS |
| Oxamyl | 0.04 / 0.11 | 0.5 | N/A | ND | PASS |
| Paclobutrazol | 0.02/0.05 | ≥ LOD | N/A | ND | PASS |
| Parathion-methyl | 0.03/0.10 | ≥LOD | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.03/0.09 | 0.1 | N/A | ND | PASS |
| Permethrin | 0.04/0.12 | 0.5 | N/A | ND | PASS |
| Phosmet | 0.03/0.10 | 0.1 | N/A | ND | PASS |
| Piperonyl Butoxide | 0.02/0.07 | 3 | N/A | ND | PASS |
| Prallethrin | 0.03 / 0.08 | 0.1 | N/A | ND | PASS |
| Propiconazole | 0.02/0.07 | 0.1 | N/A | ND | PASS |

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Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS



1350mg Orange Tincture 231218B | DATE ISSUED 06/23/2022



Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 06/20/2022 continued **⊘** PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (μg/g) | RESULT (µg/g) | RESULT |
|-----------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Propoxur | 0.03/0.09 | ≥LOD | N/A | ND | PASS |
| Pyrethrins | 0.04/0.12 | 0.5 | N/A | ND | PASS |
| Pyridaben | 0.02 / 0.07 | 0.1 | N/A | ND | PASS |
| Spinetoram | 0.02 / 0.07 | 0.1 | N/A | ND | PASS |
| Spinosad | 0.02 / 0.07 | 0.1 | N/A | ND | PASS |
| Spiromesifen | 0.02/0.05 | 0.1 | N/A | ND | PASS |
| Spirotetramat | 0.02/0.06 | 0.1 | N/A | ND | PASS |
| Spiroxamine | 0.03/0.08 | ≥LOD | N/A | ND | PASS |
| Tebuconazole | 0.02 / 0.07 | 0.1 | N/A | ND | PASS |
| Thiadoprid | 0.03/0.10 | ≥ LOD | N/A | ND | PASS |
| Thiamethoxam | 0.03/0.10 | 5 | N/A | ND | PASS |
| Trifloxystrobin | 0.03/0.08 | 0.1 | N/A | ND | PASS |



Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by IC.MS

MYCOTOXIN TEST RESULTS - 06/20/2022 PASS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (μg/kg) | RESULT |
|-----------------|--------------------|-------------------------|------------------------------------|-------------------|--------|
| Aflatoxin B1 | 2.0 / 6.0 | | N/A | ND | Ï |
| Aflatoxin B2 | 1.8 / 5.6 | | N/A | ND | |
| Aflatoxin G1 | 1.0/3.1 | 7.6 | N/A | ND | |
| Aflatoxin G2 | 1.2 / 3.5 | 11.00 | N/A | ND | |
| Total Aflatoxin | | 20 | | ND | PASS |
| Ochratoxin A | 6.3 / 19.2 | 20 | N/A | ND | PASS |



Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

RESIDUAL SOLVENTS TEST RESULTS - 06/21/2022 **⊘ PASS**

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (μg/g) | RESULT (μg/g) | RESULT |
|-----------------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Propane | 10/20 | 5000 | N/A | ND | PASS |
| n-Butane | 10/50 | 5000 | N/A | ND | PASS |
| n-Pentane | 20/50 | 5000 | N/A | ND | PASS |
| n-Hexane | 2/5 | 290 | N/A | ND | PASS |
| n-Heptane | 20/60 | 5000 | N/A | ND | PASS |
| Benzene | 0.03 / 0.09 | 1 | N/A | ND | PASS |
| Toluene | 7/21 | 890 | N/A | ND | PASS |
| Total Xylenes | 50 / 160 | 2170 | N/A | ND | PASS |
| Methanol | 50/200 | 3000 | N/A | ND | PASS |
| Ethanol | 20/50 | 5000 | N/A | ND | PASS |
| 2-Propanol (Isopropyl Alcohol) | 10 / 40 | 5000 | N/A | ND | PASS |
| Acetone | 20 / 50 | 5000 | N/A | ND | PASS |
| Ethyl Ether | 20/50 | 5000 | N/A | ND | PASS |

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Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS



1350mg Orange Tincture 231218B| DATE ISSUED 06/23/2022



RESIDUAL SOLVENTS TEST RESULTS - 06/21/2022 continued PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (μg/g) | RESULT (µg/g) | RESULT |
|---|-------------------|------------------------|-----------------------------------|------------------|--------|
| Ethylene Oxide | 0.3 / 0.8 | 1 | N/A | ND | PASS |
| Ethyl Acetate | 20/60 | 5000 | N/A | ND | PASS |
| Chloroform | 0.1 / 0.2 | 1 | N/A | ND | PASS |
| Dichloromethane (Methylene Chloride) | 0.3 / 0.9 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.1 / 0.3 | 1 | N/A | ND | PASS |
| 1,2-Dichloroethane | 0.05 / 0.1 | 1 | N/A | ND | PASS |
| Acetonitrile | 2/7 | 410 | N/A | ND | PASS |



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 06/19/2022 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (μg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Arsenic | 0.02 / 0.1 | 0.2 | N/A | ND | PASS |
| Cadmium | 0.02 / 0.05 | 0.2 | N/A | ND | PASS |
| Lead | 0.04 / 0.1 | 0.5 | N/A | ND | PASS |
| Mercury | 0.002 / 0.01 | 0.1 | N/A | ND | PASS |



Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by $3M^{^{\intercal M}}$ Petrifilm $^{^{\intercal M}}$ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PCR) - 06/22/2022 PASS

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|--|--------------------|--------|--------|
| Shiga toxin-producing Escherichia coli | Not Detected in 1g | ND | PASS |
| Salmonella spp. | Not Detected in 1g | ND | PASS |
| Staphylococcus aureus | | ND | |

MICROBIOLOGY TEST RESULTS (PLATING) - 06/22/2022 ND

| COMPOUND | RESULT (cfu/g) |
|--------------------------|-------------------|
| Total Yeast and Mold | ND |
| Total Enterobacteriaceae | ND |

NOTES

COA amended, update to order detail information.





CERTIFICATE OF ANALYSIS

1350mg Orange Tincture

| Batch ID or Lot Number: Test: 231218B Microbial Contaminants | | Reported: 29Dec2023 | USDA License: N/A | | | |
|---|--|---------------------|----------------------|--|--|--|
| Matrix: | Test ID: | Started: | Sampler ID: | | | |
| Finished Product | T000265506 | 26Dec2023 | N/A | | | |
| | Method(s): | Received: | Status: | | | |
| | TM25 (qPCR) TM24, TM26, TM27 | 20Dec2023 | Active | | | |
| | (Culture Plating): Microbial (Colorado | | | | | |
| | Panel) | | | | | |

| Microbial | | | Quantitation | | | |
|-----------------------|--------------------------|-------------------------|---|---------------|---|--|
| Contaminants | Method | LOD | Range | Result | Notes | |
| STEC | TM25: PCR | 10 ⁰ CFU/25g | NA | Absent | Free from visual mold, mildew, and — foreign matter — | |
| Salmonella | TM25: PCR | 10 ⁰ CFU/25g | NA | Absent | | |
| Total Yeast and Mold* | TM24: Culture Plating | 10 ¹ CFU/g | 1.0x10 ² - 1.5x10 ⁴ | None Detected | | |
| Total Aerobic Count* | TM26: Culture Plating | 10 ² CFU/g | 1.0x10 ³ - 1.5x10 ⁵ | None Detected | | |
| Total Coliforms* | TM27: Culture Plating | 10 ¹ CFU/g | 1.0x10 ² - 1.5x10 ⁴ | None Detected | | |

Final Approval

PREPARED BY / DATE

Brett Hudson 29Dec2023 11:36:00 AM MST

Brianne Maillot 29Dec2023 01:24:00 PM MST



https://results.botanacor.com/api/v1/coas/uuid/bfd79205-32f6-4e4e-8800-7862af766325

Definitions

* 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 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

APPROVED BY / DATE

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

> Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.









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