JOYORGANICS

CERTIFICATE OF ANALYSIS

| PRODUCT NAME: | Organic CBD Tincture - Lemon |
|-------------------|------------------------------|
| PRODUCT STRENGTH: | 900mg |
| TINCTURE BATCH: | 220712B |
| BEST BY DATE: | 7/12/2024 |
| HEMP EXTRACT LOT: | BCA-00410-220624 |

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 | 33.44mg | 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

6 Name

Date

7/28/22

2519 S Shields St. #1042, Fort Collins, CO 80526 Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev. 1.1 - Effective Date: 6/29/2022



900mg Lemon

| Batch ID or Lot Number: | Test: | Reported: | USDA License: |
|-------------------------|-----------------|------------------|---------------|
| 220712B | Potency | 19Jul2022 | N/A |
| Matrix: | Test ID: | Started: | Sampler ID: |
| Concentrate | T000213971 | 15Jul2022 | N/A |
| | Method(s): | Received: | Status: |
| | TM14 (HPLC-DAD) | 14Jul2022 | N/A |

| Cannabinoids | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) | No |
|--|---------|---------|------------|----------------------|----|
| Cannabichromene (CBC) | 0.006 | 0.017 | ND | ND | |
| Cannabichromenic Acid (CBCA) | 0.005 | 0.015 | ND | ND | |
| Cannabidiol (CBD) | 0.014 | 0.043 | 3.520 | 35.20 | |
| Cannabidiolic Acid (CBDA) | 0.014 | 0.045 | ND | ND | |
| Cannabidivarin (CBDV) | 0.003 | 0.010 | 0.020 | 0.20 | |
| Cannabidivarinic Acid (CBDVA) | 0.006 | 0.019 | ND | ND | |
| Cannabigerol (CBG) | 0.003 | 0.009 | 0.230 | 2.30 | |
| Cannabigerolic Acid (CBGA) | 0.013 | 0.039 | ND | ND | |
| Cannabinol (CBN) | 0.004 | 0.012 | ND | ND | |
| Cannabinolic Acid (CBNA) | 0.009 | 0.027 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.016 | 0.047 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.015 | 0.043 | ND | ND | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.013 | 0.038 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.003 | 0.009 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.011 | 0.033 | ND | ND | |
| Total Cannabinoids | | | 3.770 | 37.70 | |
| Fotal Potential THC | | | ND | ND | |
| Total Potential CBD | | | 3.520 | 35.20 | |

Final Approval

Danuel Ward

PREPARED BY / DATE

Daniel Weidensaul 19Jul2022 03:39:00 PM MDT

APPROVED BY / DATE

Jacob Miller 19Jul2022 03:41:00 PM MDT



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 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. ISO/IEC 17025:2017 Accredited by A2LA.



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900mg Lemon

| Batch ID or Lot Number: 220712B | Test: Microbial Cont | aminants | Reported: 19Jul2022 | | USDA License: NA | | |
|------------------------------------|-------------------------------------|-----------------------|---|---------------|------------------------------------|--|--|
| Matrix: | Test ID: | | Started: | | Sampler ID: | | |
| Finished Product | T000213972 | | 15Jul2022 | | NA | | |
| | Method(s): | | Received: | | Status: | | |
| | TM25 (PCR) TM2 (Culture Plating) | | 14Jul2022 | | NA | | |
| Microbial | | | Quantitation | | | | |
| Contaminants | Method | LOD | Range | Result | Notes | | |
| STEC | TM25: PCR | 10 ⁰ CFU/g | NA | Absent | Free from visual mold, mildew, and | | |
| Salmonella | TM25: PCR | 10 ⁰ CFU/g | NA | Absent | — foreign matter | | |
| 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

kit 1/2/m

Brett Hudson 18Jul2022 05:21:00 PM MDT

Eden Thompson

Eden Thompson-Wright 19Jul2022 10:54:00 AM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/943b6345-30a1-4441-83d1-cda84711c18b

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: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

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 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. ISO/IEC 17025:2017 Accredited by A2LA.





12423 NE Whitaker Way Portland, OR 97230 503-254-1794



22-007617/D002.R000 **Report Number: Report Date:** 07/07/2022 ORELAP#: OR100028 **Purchase Order:** 06/29/22 11:00 **Received:**

| Solvents | Method: | Residua | I Solve | ents by | GC/MS | Units µg/g Batch | n 2205605 | Analyz | e 07/0 |)1/22 1 | 2:42 PM |
|----------------------|---------|---------|---------|---------|-------|--------------------|-----------|--------|---------------|---------|---------|
| Analyte | Result | Limits | LOQ | Status | Notes | Analyte | Result | Limits | LOQ | Status | Notes |
| 2-Methylbutane | < LOQ | 1000 | 200 | pass | | 2-Methylpentane | < LOQ | 60.0 | 30.0 | pass | |
| 2-Propanol (IPA) | < LOQ | 1000 | 200 | pass | | 2,2-Dimethylbutane | < LOQ | 60.0 | 30.0 | pass | |
| 2,2-Dimethylpropane | < LOQ | 1000 | 200 | pass | | 2,3-Dimethylbutane | < LOQ | 60.0 | 30.0 | pass | |
| 3-Methylpentane | < LOQ | 60.0 | 30.0 | pass | | Acetone | < LOQ | 1000 | 200 | pass | |
| Benzene | < LOQ | 2.00 | 1.00 | pass | | Butanes (sum) | < LOQ | 1000 | 400 | pass | |
| Ethanol [†] | < LOQ | 1000 | 200 | pass | | Ethyl acetate | < LOQ | 1000 | 200 | pass | |
| Hexanes (sum) | < LOQ | 60.0 | 150 | pass | | m,p-Xylene | < LOQ | 430 | 200 | pass | |
| Methanol | < LOQ | 600 | 200 | pass | | Methylpropane | < LOQ | 1000 | 200 | pass | |
| n-Butane | < LOQ | 1000 | 200 | pass | | n-Heptane | < LOQ | 1000 | 200 | pass | |
| n-Hexane | < LOQ | 60.0 | 30.0 | pass | | n-Pentane | < LOQ | 1000 | 200 | pass | |
| o-Xylene | < LOQ | 430 | 200 | pass | | Pentanes (sum) | < LOQ | 1000 | 600 | pass | |
| Propane | < LOQ | 1000 | 200 | pass | | Toluene | < LOQ | 180 | 100 | pass | |
| Total Xylenes | < LOQ | 430 | 400 | pass | | | | | | | |

Page 4 of 15

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 Page 4 of 15

 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



12423 NE Whitaker Way Portland, OR 97230 503-254-1794



22-007617/D002.R000 **Report Number: Report Date:** 07/07/2022 ORELAP#: OR100028 **Purchase Order: Received:** 06/29/22 11:00

| Pesticides | Method: AOA | C 2007.01 & EN 15662 (m | nod) Units mg/kg Batch | 2205582 | Analyze 06/30/22 04:15 PM |
|----------------------|-------------|-------------------------|------------------------|---------|---------------------------|
| Analyte | Result | Limits LOQ Status Note | s Analyte | Result | Limits LOQ Status Notes |
| Abamectin | < LOQ | 0.25 0.070 pass | Acephate | < LOQ | 0.050 0.020 pass |
| Acequinocyl | < LOQ | 0.030 0.025 pass | Acetamiprid | < LOQ | 0.050 0.050 pass |
| Aldicarb | < LOQ | 0.50 0.100 pass | Allethrin | < LOQ | 0.10 0.100 pass |
| Atrazine | < LOQ | 0.0250 0.025 pass | Azadirachtin | < LOQ | 1.0 0.500 pass |
| Azoxystrobin | < LOQ | 0.010 0.010 pass | Benzovindiflupyr | < LOQ | 0.010 0.010 pass |
| Bifenazate | < LOQ | 0.010 0.010 pass | Bifenthrin | < LOQ | 1.0 0.100 pass |
| Boscalid | < LOQ | 0.010 0.010 pass | Buprofezin | < LOQ | 0.020 0.010 pass |
| Carbaryl | < LOQ | 0.025 0.025 pass | Carbofuran | < LOQ | 0.010 0.010 pass |
| Chlorantraniliprole | < LOQ | 0.020 0.010 pass | Chlorfenapyr | < LOQ | 1.5 0.100 pass |
| Chlorpyrifos | < LOQ | 0.50 0.010 pass | Clofentezine | < LOQ | 0.010 0.010 pass |
| Clothianidin | < LOQ | 0.025 0.025 pass | Coumaphos | < LOQ | 0.010 0.010 pass |
| Cyantraniliprole | < LOQ | 0.010 0.010 pass | Cyfluthrin | < LOQ | 0.20 0.200 pass |
| Cyhalothrin, lambda | < LOQ | 0.0200 0.250 pass | Cypermethrin | < LOQ | 0.30 0.300 pass |
| Cyprodinil | < LOQ | 0.010 0.010 pass | Daminozide | < LOQ | 0.10 0.050 pass |
| Deltamethrin | < LOQ | 0.50 0.500 pass | Diazinon | < LOQ | 0.020 0.010 pass |
| Dichlorvos | < LOQ | 0.050 0.050 pass | Dimethoate | < LOQ | 0.010 0.010 pass |
| Dimethomorph | < LOQ | 0.050 0.050 pass | Dinotefuran | < LOQ | 0.050 0.050 pass |
| Diuron | < LOQ | 0.125 0.125 pass | Dodemorph | < LOQ | 0.050 0.050 pass |
| Endosulfan I (alpha) | < LOQ | 2.5 0.050 pass | Endosulfan II (beta) | < LOQ | 2.5 0.050 pass |
| Endosulfan sulfate | < LOQ | 2.5 0.050 pass | Ethoprophos | < LOQ | 0.010 0.010 pass |
| Etofenprox | < LOQ | 0.050 0.010 pass | Etoxazole | < LOQ | 0.020 0.010 pass |
| Etridiazole | < LOQ | 0.15 0.050 pass | Fenhexamid | < LOQ | 0.13 0.100 pass |
| Fenoxycarb | < LOQ | 0.010 0.010 pass | Fenpyroximate | < LOQ | 0.020 0.020 pass |
| Fensulfothion | < LOQ | 0.010 0.010 pass | Fenthion | < LOQ | 0.010 0.010 pass |
| Fenvalerate | < LOQ | 0.200 | Fipronil | < LOQ | 0.010 0.010 pass |
| Flonicamid | < LOQ | 0.025 0.025 pass | Fludioxonil | < LOQ | 0.010 0.010 pass |
| Fluopyram | < LOQ | 0.010 0.010 pass | Hexythiazox | < LOQ | 0.010 0.010 pass |
| Imazalil | < LOQ | 0.010 0.010 pass | Imidacloprid | < LOQ | 0.010 0.010 pass |
| Iprodione | < LOQ | 0.50 0.500 pass | Kinoprene | < LOQ | 1.3 0.200 pass |
| Kresoxim-methyl | < LOQ | 0.15 0.010 pass | Malathion | < LOQ | 0.010 0.010 pass |
| Metalaxyl | < LOQ | 0.010 0.010 pass | Methiocarb | < LOQ | 0.010 0.010 pass |
| Methomyl | < LOQ | 0.025 0.025 pass | Methoprene | < LOQ | 2.0 1.00 pass |
| Mevinphos | < LOQ | 0.025 0.025 pass | MGK-264 | < LOQ | 0.050 0.050 pass |
| Myclobutanil | < LOQ | 0.010 0.010 pass | Naled | < LOQ | 0.10 0.100 pass |
| Novaluron | < LOQ | 0.025 0.025 pass | Oxamyl | < LOQ | 1.5 0.500 pass |
| Paclobutrazole | < LOQ | 0.010 0.010 pass | Parathion-Methyl | < LOQ | 0.050 0.030 pass |
| Permethrin | < LOQ | 0.50 0.040 pass | Phenothrin | < LOQ | 0.050 0.025 pass |
| Phosmet | < LOQ | 0.020 0.010 pass | Piperonyl butoxide | < LOQ | 1.3 0.200 pass |
| Pirimicarb | < LOQ | 0.010 0.010 pass | Prallethrin | < LOQ | 0.050 0.050 pass |
| Propiconazole | < LOQ | 0.10 0.010 pass | Propoxur | < LOQ | 0.010 0.010 pass |
| Pyraclostrobin | < LOQ | 0.010 0.010 pass | Pyrethrins (total) | < LOQ | 0.050 0.025 pass |
| Pyridaben | < LOQ | 0.020 0.020 pass | Pyriproxyfen | < LOQ | 0.0100 0.010 pass |
| Quintozene | < LOQ | 0.020 0.020 pass | Resmethrin | < LOQ | 0.050 0.020 pass |
| Spinetoram | < LOQ | 0.010 0.010 pass | Spinosad | < LOQ | 0.010 0.010 pass |
| Spirodiclofen | < LOQ | 0.25 0.250 pass | Spiromesifen | < LOQ | 3.0 0.030 pass |
| Spirotetramat | < LOQ | 0.010 0.010 pass | Spiroxamine | < LOQ | 0.10 0.010 pass |

Page 5 of 15

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 Page 5 of 15

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 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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|---|--------------------|
| | A Tentamus Company |

12423 NE Whitaker Way Portland, OR 97230 503-254-1794



| Report Number: | 22-007617/D002.R000 |
|-----------------|---------------------|
| Report Date: | 07/07/2022 |
| ORELAP#: | OR100028 |
| Purchase Order: | |
| Received: | 06/29/22 11:00 |

| Pesticides | Method: AOA | AC 2007 | .01 & EN 1 | 5662 (mo | d) (| Jnits mg/kg | Batch 22 | 05582 | Analy | ze 06/3 | 0/22 04: | 15 PM |
|---------------------------|-------------|---------|------------|----------|--------|--------------------|----------|--------|----------|----------------|----------|-------|
| Analyte | Result | Limits | LOQ Statu | is Notes | A | Analyte | | Result | Limits | LOQ | Status N | otes |
| Tebuconazole | < LOQ | 0.010 | 0.010 pass | | Т | ebufenozide | | < LOQ | 0.010 | 0.010 p | bass | |
| Teflubenzuron | < LOQ | 0.025 | 0.025 pass | | Т | etrachlorvinp | hos | < LOQ | 0.010 | 0.010 p | oass | |
| Tetramethrin | < LOQ | 0.10 | 0.050 pass | | Т | hiacloprid | | < LOQ | 0.010 | 0.010 p | oass | |
| Thiamethoxam | < LOQ | 0.010 | 0.010 pass | | Т | hiophanate-N | /lethyl | < LOQ | 0.050 | 0.030 p | oass | |
| Trifloxystrobin | < LOQ | 0.010 | 0.010 pass | | | | | | | | | |
| Metals | | | | | | | | | | | | |
| Analyte | Re | esult | Limits | Units | LOQ | Batch | Analyze | Method | | | Status | Notes |
| Arsenic | < | LOQ | 1.50 | mg/kg | 0.0874 | 2205591 | 06/30/22 | AOAC 2 | 013.06 (| mod.) | pass | х |
| Cadmium | < | LOQ | 0.50 | mg/kg | 0.0874 | 2205591 | 06/30/22 | AOAC 2 | 013.06 (| mod.) | pass | Х |
| Lead | < | LOQ | 0.50 | mg/kg | 0.0874 | 2205591 | 06/30/22 | AOAC 2 | 013.06 (| mod.) | pass | Х |
| Mercury | < | LOQ | 1.50 | mg/kg | 0.0437 | 2205591 | 06/30/22 | AOAC 2 | 013.06 (| mod.) | pass | X |
| Mycotoxins | | | | | | | | | | | | |
| Analyte | Re | esult | Limits | Units | LOQ | Batch | Analyze | Method | | | Status | Notes |
| Aflatoxin B2 [†] | < | LOQ | 5.00 | µg/kg | 5.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | pass | |
| Aflatoxin B1 [†] | < | LOQ | 5.00 | µg/kg | 5.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | pass | |
| Aflatoxin G1 [†] | < | LOQ | 5.00 | µg/kg | 5.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | pass | |
| Aflatoxin G2 [†] | < | LOQ | 5.00 | µg/kg | 5.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | pass | |
| Ochratoxin A [†] | < | LOQ | 5.00 | µg/kg | 5.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | pass | |
| Ochratoxin B [†] | < | LOQ | | µg/kg | 2.00 | 2205724 | 07/07/22 | AOAC 2 | 007.01 8 | EN | | |

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 Page 6 of 15

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