

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: Full Spec Tincture (All Flavors)

CONCENTRATION: 1000mg - 33.3mg/ml

PRODUCT LOT NUMBER: LB-O-00070

OIL LOT NUMBER: LD-O-00045

MANUFACTURE DATE: 04/12/2022

Expiration date is 18 months under sealed conditions

DATE OF ANALYSIS: 04/18/2022

ACTIVE INGREDIENTS: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Certified Organic MCT Oil, Organic Flavor



ANALYSIS RESULTS FOR FINISHED PRODUCT

ATTRIBUTE ANALYSIS

| ATTRIBUTE | CRITERIA | DISPOSITION |
|-------------|--|-------------|
| APPEARANCE | Clear light yellow to medium yellow liquid | PASS |
| AROMA | Characteristic Hemp Oil Aroma | PASS |
| CBD CONTENT | Label claim +/- 10% | PASS |
| THC CONTENT | COMPLIANT OR NON-DETECT | PASS |

CANNABINOID ANALYSIS

| COMPOUND | RESULT (mg) | CRITERIA |
|----------|-------------|-------------|
| THC | 0.13% | <0.3% |
| CBD | 1032.12mg | 1000mg |
| CBN | ND | NO CRITERIA |
| CBG | ND | NO CRITERIA |
| CBDV | 3.98mg | NO CRITERIA |
| CBC | 28.17mg | NO CRITERIA |
| PASS | | |

MICROBIAL ANALYSIS

| ITEM | SPECIFICATION | RESULT (CFU/g) | DISPOSITION |
|---------------------|---------------|----------------|-------------|
| Ttl Aerobic Count | None Detected | None Detected | PASS |
| Total Coliforms | None Detected | None Detected | PASS |
| Total Yeast & Molds | None Detected | None Detected | PASS |
| E. Coli | None Detected | None Detected | PASS |
| Salmonella | None Detected | None Detected | PASS |

RESIDUAL SOLVENT ANALYSIS

| ITEM | SPECIFICATION | RESULT (CFU/g) | DISPOSITION |
|-------------------|---------------|----------------|-------------|
| Propane | None Detected | None Detected | PASS |
| Butanes | None Detected | None Detected | PASS |
| Methanol | None Detected | None Detected | PASS |
| Pentane | None Detected | None Detected | PASS |
| Ethanol | None Detected | None Detected | PASS |
| Acentone | None Detected | None Detected | PASS |
| Isopropyl Alcohol | None Detected | None Detected | PASS |
| Hexane | None Detected | None Detected | PASS |
| Ethyl Acetate | None Detected | None Detected | PASS |
| Benzene | None Detected | None Detected | PASS |
| Heptanes | None Detected | None Detected | PASS |
| Toluene | None Detected | None Detected | PASS |
| Xylenes | None Detected | None Detected | PASS |
| PASS | | | |

QC Approval: _____

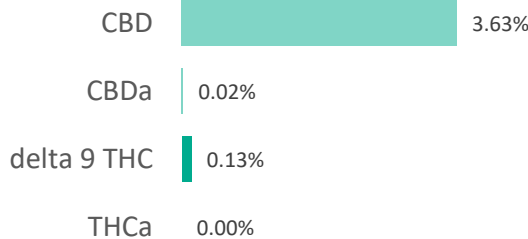
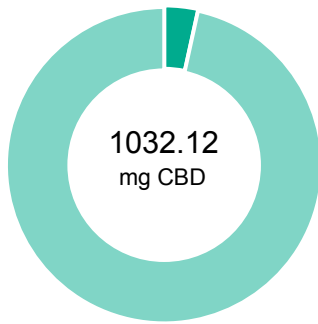
Date: _____



LB-O-00070

| | | | |
|------------------|---------|-------------------|-----------------------|
| Batch ID: | | Test ID: | T000111479 |
| Type: | Unit | Submitted: | 04/12/2022 @ 11:12 AM |
| Test: | Potency | Started: | 04/18/2022 |
| Method: | TM14 | Reported: | 04/18/2022 |

CANNABINOID PROFILE



| Compound | LOQ (mg) | Result (mg) | Result (mg/g) |
|--|----------|----------------|---------------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 24.43 | ND | ND |
| Delta 9-Tetrahydrocannabinol (Delta 9THC) | 11.97 | 37.24 | 1.3 |
| Cannabidiolic acid (CBDA) | 3.74 | 5.78 | 0.2 |
| Cannabidiol (CBD) | 7.98 | 1032.12 | 36.3 |
| Delta 8-Tetrahydrocannabinol (Delta 8THC) | 13.06 | ND | ND |
| Cannabinolic Acid (CBNA) | 33.88 | ND | ND |
| Cannabinol (CBN) | 14.85 | ND | ND |
| Cannabigerolic acid (CBGA) | 21.33 | ND | ND |
| Cannabigerol (CBG) | 11.95 | ND | ND |
| Tetrahydrocannabivarinic Acid (THCVA) | 20.82 | ND | ND |
| Tetrahydrocannabivarin (THCV) | 10.66 | ND | ND |
| Cannabidivarinic Acid (CBDVA) | 3.59 | ND | ND |
| Cannabidivarin (CBDV) | 1.93 | 3.98 | 0.1 |
| Cannabichromenic Acid (CBCA) | 18.73 | ND | ND |
| Cannabichromene (CBC) | 21.66 | 28.17 | 1.0 |
| Total Cannabinoids | | 1107.29 | 39.0 |
| Total Potential THC** | | 37.24 | 1.3 |
| Total Potential CBD** | | 1037.19 | 36.5 |

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

NOTES:

of Servings = 1, Sample Weight=28.4g

N/A

FINAL APPROVAL

| | | | |
|--|---------------------------------------|--|--|
| | Mara Miller 18-Apr-2022 3:36 PM | | Greg Zimpfer 18-Apr-2022 4:05 PM |
|--|---------------------------------------|--|--|

PREPARED BY / DATE

APPROVED BY / DATE

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 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02



LB-O-00070

| | | | |
|------------------|-------------------|-------------------|-----------------------|
| Batch ID: | | Test ID: | T000111480 |
| Type: | Concentrate | Submitted: | 04/12/2022 @ 11:12 AM |
| Test: | Residual Solvents | Started: | 04/18/2022 |
| Method: | TM04 | Reported: | 04/18/2022 |

RESIDUAL SOLVENTS

| Solvent | Dynamic Range (ppm) | Result (ppm) |
|----------------------------------|---------------------|--------------|
| Propane | 104 - 2075 | *ND |
| Butanes (Isobutane, n-Butane) | 194 - 3871 | *ND |
| Methanol | 58 - 1155 | *ND |
| Pentane | 96 - 1915 | *ND |
| Ethanol | 99 - 1980 | *ND |
| Acetone | 97 - 1935 | *ND |
| Isopropyl Alcohol | 102 - 2040 | *ND |
| Hexane | 6 - 117 | *ND |
| Ethyl Acetate | 98 - 1965 | *ND |
| Benzene | 0.2 - 3.8 | *ND |
| Heptanes | 95 - 1895 | *ND |
| Toluene | 18 - 351 | *ND |
| Xylenes (m,p,o-Xylenes) | 125 - 2502 | *ND |


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

NOTES:
N/A

FINAL APPROVAL


 Ryan Weems
 18-Apr-2022
 3:53 PM

PREPARED BY / DATE


 Greg Zimpfer
 18-Apr-2022
 3:56 PM

APPROVED BY / DATE

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LB-O-00070

| | | | |
|------------------|------------------------------|-------------------|-----------------------|
| Batch ID: | N/A | Test ID: | T000111481 |
| Type: | Concentrate | Submitted: | 04/12/2022 @ 11:12 AM |
| Test: | Microbial Contaminants | Started: | 04/15/2022 |
| Method: | TM24, TM25, TM26, TM27, TM28 | Reported: | 04/15/2022 |

MICROBIAL CONTAMINANTS

| Contaminant | Result (CFU/g)* |
|--------------------------------|-----------------|
| Total Aerobic Count** | None Detected |
| Total Coliforms** | None Detected |
| Total Yeast and Molds** | None Detected |
| E. coli | Absent |
| STEC and 0157 E. coli | None Detected |
| Salmonella | None Detected |

* CFU/g = Colony Forming Unit per Gram


** 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

NOTES:

Free from visual mold, mildew, and foreign matter
 TYM: None Detected
 Total Aerobic: None Detected

FINAL APPROVAL


 Nick Tumminaro
 15-Apr-2022
 2:32 PM


 Greg Zimpfer
 15-Apr-2022
 6:42 PM

PREPARED BY / DATE

APPROVED BY / DATE

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