

# CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** Full Spec Tincture (all flavors)  
**CONCENTRATION:** 2500mg - 83.3mg/ml  
**PRODUCT LOT NUMBER:** LB-O-00048  
**OIL LOT NUMBER:** LD-O-00055  
**MANUFACTURE DATE:** 9/24/2020

*Expiration date is 24 months under sealed conditions and proper storage*

**DATE OF ANALYSIS:** 9/28/2020  
**ACTIVE INGREDIENTS:** Organic Phytocannabinoid-Rich Hemp Oil  
**INACTIVE INGREDIENTS:** Organic MCT Coconut Oil, Organic Essential Oil (flavor)  
**ALLERGY NOTICE:** Contains Tree Nuts (Coconut)



## 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   | CRITERIA    |
|----------|----------|-------------|
| THC      | 0.19%    | <0.3%       |
| CBD      | 85.7mg/g | 83.3mg/g    |
| CBN      | 0.9mg/g  | NO CRITERIA |
| CBG      | 1.6mg/g  | NO CRITERIA |
| CBDV     | 0.3mg/g  | NO CRITERIA |
| CBC      | 4.3mg/g  | NO CRITERIA |
| PASS     |          |             |

### MICROBIAL ANALYSIS

| CONTAMINANT         | 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

| SOLVENT           | SPECIFICATION | RESULT (ppm)  | 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: *Scott McWhorter*

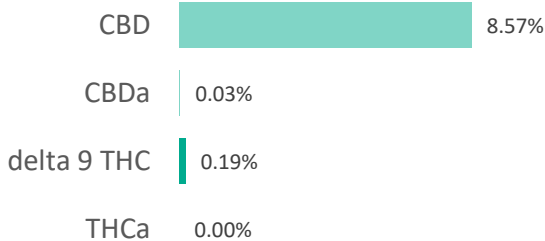
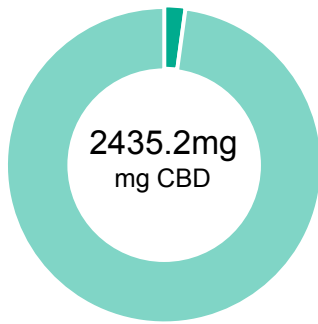
Date: 10/05/2020



LB-O-00048

|                  |             |                 |            |
|------------------|-------------|-----------------|------------|
| <b>Batch ID:</b> |             | <b>Test ID:</b> | T000098790 |
| <b>Reported:</b> | 28-Sep-2020 | <b>Method:</b>  | TM14       |
| <b>Type:</b>     | Unit        |                 |            |
| <b>Test:</b>     | Potency     |                 |            |

### CANNABINOID PROFILE



| Compound                                     | LOQ (mg) | Result (mg)    | Result (mg/g) |
|--|----------|----------------|---------------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 20.28    | ND             | ND            |
| Delta 9-Tetrahydrocannabinol (Delta 9THC)    | 9.94     | 53.20          | 1.9           |
| Cannabidiolic acid (CBDA)                    | 3.55     | 7.88           | 0.3           |
| Cannabidiol (CBD)                            | 7.58     | 2435.20        | 85.7          |
| Delta 8-Tetrahydrocannabinol (Delta 8THC)    | 10.85    | ND             | ND            |
| Cannabinolic Acid (CBNA)                     | 28.13    | ND             | ND            |
| Cannabinol (CBN)                             | 12.33    | 25.49          | 0.9           |
| Cannabigerolic acid (CBGA)                   | 17.71    | ND             | ND            |
| Cannabigerol (CBG)                           | 9.92     | 45.01          | 1.6           |
| Tetrahydrocannabivarinic Acid (THCVA)        | 17.29    | ND             | ND            |
| Tetrahydrocannabivarin (THCV)                | 8.85     | ND             | ND            |
| Cannabidivarinic Acid (CBDVA)                | 3.41     | ND             | ND            |
| Cannabidivarin (CBDV)                        | 1.84     | 8.26           | 0.3           |
| Cannabichromenic Acid (CBCA)                 | 15.56    | ND             | ND            |
| Cannabichromene (CBC)                        | 17.99    | 120.74         | 4.3           |
| <b>Total Cannabinoids</b>                    |          | <b>2695.78</b> | <b>94.9</b>   |
| Total Potential THC**                        |          | 53.20          | 1.9           |
| Total Potential CBD**                        |          | 2442.11        | 86.0          |

#### NOTES:


# of Servings = 1, Sample Weight=28.4g

N/A

% = % (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)

### FINAL APPROVAL

  
 Michelle Gagnon  
 28-Sep-2020  
 12:35 PM

  
 Greg Zimpfer  
 28-Sep-2020  
 1:08 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-00048

|                  |                              |                   |                       |
|------------------|------------------------------|-------------------|-----------------------|
| <b>Batch ID:</b> | N/A                          | <b>Test ID:</b>   | T000101915            |
| <b>Type:</b>     | Concentrate                  | <b>Submitted:</b> | 10/08/2020 @ 12:53 PM |
| <b>Test:</b>     | Microbial Contaminants       | <b>Started:</b>   | 10/9/2020             |
| <b>Method:</b>   | TM24, TM25, TM26, TM27, TM28 | <b>Reported:</b>  | 10/12/2020            |

### MICROBIAL CONTAMINANTS

| Contaminant                    | Result (CFU/g)* |
|--------------------------------|-----------------|
| <b>Total Aerobic Count**</b>   | None Detected   |
| <b>Total Coliforms**</b>       | None Detected   |
| <b>Total Yeast and Molds**</b> | None Detected   |
| <b>E. coli</b>                 | Absent          |
| <b>STEC and 0157 E. coli</b>   | None Detected   |
| <b>Salmonella</b>              | 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  
 12-Oct-2020  
 5:38 PM

  
 Ben Minton  
 12-Oct-2020  
 9:12 PM

PREPARED BY / DATE

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LB-O-00048

|                  |                   |                 |            |
|------------------|-------------------|-----------------|------------|
| <b>Batch ID:</b> |                   | <b>Test ID:</b> | T000098791 |
| <b>Reported:</b> | 30-Sep-2020       | <b>Method:</b>  | TM04       |
| <b>Type:</b>     | Concentrate       |                 |            |
| <b>Test:</b>     | Residual Solvents |                 |            |

### RESIDUAL SOLVENTS

| Solvent                          | Dynamic Range (ppm) | Result (ppm) |
|----------------------------------|---------------------|--------------|
| Propane                          | 73 - 1466           | *ND          |
| Butanes<br>(Isobutane, n-Butane) | 158 - 3153          | *ND          |
| Methanol                         | 59 - 1180           | *ND          |
| Pentane                          | 90 - 1798           | *ND          |
| Ethanol                          | 87 - 1744           | *ND          |
| Acetone                          | 97 - 1946           | *ND          |
| Isopropyl Alcohol                | 102 - 2046          | *ND          |
| Hexane                           | 6 - 122             | *ND          |
| Ethyl Acetate                    | 102 - 2041          | *ND          |
| Benzene                          | 0.2 - 4.1           | *ND          |
| Heptanes                         | 97 - 1944           | *ND          |
| Toluene                          | 18 - 355            | *ND          |
| Xylenes<br>(m,p,o-Xylenes)       | 129 - 2578          | *ND          |


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

NOTES:  
N/A

### FINAL APPROVAL

  
 Sam Smith  
 30-Sep-2020  
 1:00 PM

PREPARED BY / DATE

  
 Ben Minton  
 30-Sep-2020  
 1:28 PM

APPROVED BY / DATE

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