

# Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

## TOTAL THC<sup>1</sup>



## CANNABINOID PROFILE

1.7335% Total CBD<sup>1</sup>
1.8001% Total Cannabinoids<sup>3</sup>
Terpenes Not Tested





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1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC =  $\Delta$ 9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).

2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol ( $\Delta$ -9-THC) post-decarboxylation - see formula above.

3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

# Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

# RESIDUAL PESTICIDES

RESIDUAL SOLVENTS PASSED

HEAVY METALS PASSED MICROBIAL IMPURITIES

PASSED

# Blueberry Lemon Broad Spectrum Tincture 500mg

Tested for: Root Wellness

Address:

 Sample ID:
 200206N038

 Date Collected:
 02/06/2020

 Date Received:
 02/07/2020

Batch #:

## **Final Approval**

Paul Dorenbach, LQC Verified By Date: 02/10/2020

Josh Wurzer, Presiden Date: 02/10/2020 These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

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CoA ID: 200206N038-002 Page 1 of 4



| Sample Name:      | Blueberry Lemon Broad Spectrum Tincture<br>500mg |
|-------------------|--|
| LIMS Sample ID:   | 200206N038                                       |
| Batch #:          |  |
| Source METRC UID: |  |
|                   |  |
|                   |  |
| Sample Type:      | Infused, Liquid Edible                           |
| Batch Count:      |  |
| Sample Count:     |  |
| Unit Volume:      | 30 Milliliters per Unit                          |
| Serving Volume:   | 1 Milliliters per Serving                        |
| Density:          | 0.9337 g/mL                                      |

### **Moisture Test Results**

Results (%)

### **Cannabinoid Test Results**

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

| (111 LC, Q31 3-4- | +-+)          |                 |         |                                   |
|-------------------|---------------|-----------------|---------|-----------------------------------|
| Δ9ΤΗC             |               | mg/mL<br>ND     | %<br>ND | LOD / LOQ mg/mL<br>0.0009 / 0.003 |
| Δ8THC             |               | ND              | ND      | 0.0009 / 0.003                    |
| THCa              |               | ND              | ND      | 0.0009 / 0.003                    |
| THCV              |               | ND              | ND      | 0.0004 / 0.001                    |
| THCVa             |               | ND              | ND      | 0.0013 / 0.004                    |
| CBD               |               | 16.186          | 1.7335  | 0.0009 / 0.003                    |
| CBDa              |               | ND              | ND      | 0.0009 / 0.003                    |
| CBDV              |               | 0.062           | 0.0066  | 0.0004 / 0.001                    |
| CBDVa             |               | ND              | ND      | 0.0003 / 0.001                    |
| CBG               |               | 0.068           | 0.0073  | 0.001 / 0.003                     |
| CBGa              |               | ND              | ND      | 0.0008 / 0.002                    |
| CBL               |               | 0.029           | 0.0031  | 0.0021 / 0.006                    |
| CBN               |               | 0.209           | 0.0224  | 0.0009 / 0.003                    |
| CBC               |               | 0.254           | 0.0272  | 0.0011 / 0.003                    |
| CBCa              |               | ND              | ND      | 0.0015 / 0.005                    |
| Sum of Cannabi    | noids:        | 16.808          | 1.8001  | 504.240 mg/Unit                   |
| Total THC (Δ9TH   | C+0.877*THCa) | ND              | ND      | ND                                |
| Total CBD (CBD-   |               | 16.186          | 1.7335  | 485.580 mg/Unit                   |
|                   |               | Action Limit mg |         |                                   |
| Δ9THC per Unit    |               | 1000.0          | Pass    | ND                                |
| ∆9THC per Servi   | ng            |                 |         | ND                                |

### **Batch Photo**





02/09/2020



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Paul Dorenbach, LQC Verified By Date: 02/10/2020

# Josh Wurzer, President

Date: 02/10/2020

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| Date Collected: | 02/06/2020    |  |
|-----------------|---------------|--|
| Date Received:  | 02/07/2020    |  |
| Tested for:     | Root Wellness |  |
| License #:      |               |  |
| Address:        |               |  |
| Produced by:    |               |  |
| License #:      |               |  |
| Address:        |               |  |
| l               |               |  |
|                 |               |  |

## **Terpene Test Results**

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

|                     | mg/g | % | LOD / LOQ mg/g |
|---------------------|------|---|----------------|
|                     | NT   |   | 5.5            |
|                     |      |   |                |
|                     |      |   |                |
|                     | NT   |   |                |
| Terpinolene         | NT   |   |                |
| Valencene           | NT   |   |                |
| Menthol             | NT   |   |                |
|                     | NT   |   |                |
| Myrcene             | NT   |   |                |
| Fenchol             | NT   |   |                |
|                     | NT   |   |                |
| Caryophyllene Oxide | NT   |   |                |
|                     | NT   |   |                |
|                     | NT   |   |                |
| R-(+)-Pulegone      |      |   |                |
| Geranyl Acetate     |      |   |                |
|                     |      |   |                |
|                     |      |   |                |
|                     |      |   |                |
|                     |      |   |                |
| Phytol              |      |   |                |
|                     |      |   |                |
|                     |      |   |                |

Sample Certification



| ( | Sample Name:      | Blueberry Lemon Broad Spectrum Tincture<br>500mg |
|---|-------------------|--|
|   | LIMS Sample ID:   | 200206N038                                       |
|   | Batch #:          |  |
|   | Source METRC UID: |  |
|   |                   |  |
|   |                   |  |
|   | Sample Type:      | Infused, Liquid Edible                           |
|   | Batch Count:      |  |
|   | Sample Count:     |  |
|   | Unit Volume:      | 30 Milliliters per Unit                          |
|   | Serving Volume:   | 1 Milliliters per Serving                        |
|   | Density:          | 0.9337 g/mL                                      |

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|   | License #:      |               |  |
|   | Address:        |               |  |
|   | Produced by:    |               |  |
|   | License #:      |               |  |
|   | Address:        |               |  |
|   |                 |               |  |
|   |                 |               |  |

## **Pesticide Test Results - Pass**

02/08/2020

Pesticide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

| Speciforneity     |      |                |                   |                      |
|-------------------|------|----------------|-------------------|----------------------|
|                   |      | Results (µg/g) | Action Limit µg/g | Reporting Limit µg/g |
| Abamectin         | Pass | ND             | 0.3               | 0.091                |
| Bifenazate        | Pass | ND             | 5.0               | 0.035                |
| Bifenthrin        | Pass | ND             | 0.5               | 0.038                |
| Boscalid          | Pass | ND             | 10.0              | 0.023                |
| Etoxazole         | Pass | ND             | 1.5               | 0.022                |
| Imidacloprid      | Pass | ND             | 3.0               | 0.050                |
| Myclobutanil      | Pass | ND             | 9.0               | 0.044                |
| Piperonylbutoxide | Pass | ND             | 8.0               | 0.020                |
| Pyrethrins        | Pass | ND             | 1.0               | 0.036                |
| Spinosad          | Pass | ND             | 3.0               | 0.031                |
| Spiromesifen      | Pass | ND             | 12.0              | 0.015                |
| Spirotetramat     | Pass | ND             | 13.0              | 0.042                |
|                   |      |                |                   |                      |

### **Mycotoxin Test Results**

| Mycotoxin analysis utilizing H           | trometry<br>Action Limit µg/kg | LOD / LOQ µg/kg |
|--|--------------------------------|-----------------|
| Aflatoxin B1, B2, G1, G2<br>Ochratoxin A |                                |                 |

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019 Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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Paul Dorenbach, LQC Verified By Date: 02/10/2020

Josh Wurzer, President Date: 02/10/2020

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|                   |  |
|                   |  |
| Sample Type:      | Infused, Liquid Edible                           |
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| Sample Count:     |  |
| Unit Volume:      | 30 Milliliters per Unit                          |
| Serving Volume:   | 1 Milliliters per Serving                        |
| Density:          | 0.9337 g/mL                                      |
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| Date Received:  | 02/07/2020    |  |
| Tested for:     | Root Wellness |  |
| License #:      |               |  |
| Address:        |               |  |
| Produced by:    |               |  |
| License #:      |               |  |
| Address:        |               |  |
|                 |               |  |
|                 |               |  |

### Water Activity Test Results

|   |                   | 02/08/2020                    | Water Activit |                     | Results (Aw)  | Action Limit Aw      |                   |
|---|-------------------|-------------------------------|---------------|---------------------|---------------|----------------------|-------------------|
| n | natography - Mass | 5                             | Heavy Me      | etal Test Resu      | lts - Pass    |                      | 02/09/2020        |
|   | Action Limit µg/g | LOD / LOQ µg/g                | -             |                     | _             |                      |                   |
|   | 1.0               | 0.111 / 0.336                 | Heavy meta    | l analysis utilizin | a Inductively | Coupled Plasma       | Mass              |
|   | 1.0               | 0.043 / 0.132                 | Spectromet    | ,                   | g maacaroi,   |                      |                   |
|   | 1.0               | 0.064 / 0.195                 | spectromet    | ry (ICI -IVI3)      | Results (µ    | q/q) Action Limit µq | /g LOD / LOQ µg/g |
|   | 1.0               | 0.136 / 0.413                 | Cadmium       | Pass                |               | 0.5                  | 0.012 / 0.035     |
|   | 1.0               | 0.172 / 0.521                 | Lead          | Pass                |               | 0.5                  | 0.031 / 0.095     |
|   | 1.0               | 0.040 / 0.120                 | Arsenic       | Pass                |               | 1.5                  | 0.013 / 0.039     |
|   | 5000.0            | 14.703 / <mark>44</mark> .549 | Mercury       | Pass                |               | 3.0                  | 0.002 / 0.005     |
|   | 410.0             | 2.727 / 8.262                 | mercury       | 1 435               |               | 0.0                  | 0.002 / 0.000     |
|   | 5000 0            | E (70 / 17 10E                |               |                     |               |                      |                   |

Note

02/08/2020

Spectrometry (GC - MS) Results (µg/g) 1,2-Dichloroethane Pass ND ND Benzene Pass Chloroform Pass ND Ethylene Oxide Pass ND Methylene chloride Pass ND Trichloroethylene Pass ND Acetone Pass ND Acetonitrile Pass ND 5.672 / 1<mark>7.</mark>185 11.775 / 35.679 Butane Pass ND 5000.0 Ethanol Pass ND 5000.0 16.227 / 49.169 Ethyl acetate Pass 105.972 5000.0 Ethyl ether Pass ND 5000.0 11.608 / 35.172 Heptane Pass ND 5000.0 12.982 / 39.336 Hexane Pass ND 290.0 1.816 / 5.502 Isopropyl Alcohol Pass ND 5000.0 15.358 / <mark>46</mark>.536 Methanol Pass ND 3000.0 15.584 / 47.220 Pentane Pass ND 5000.0 12.355 / 37.434 ND 5000.0 1.359 / 4.117 Propane Pass ND 890.0 7.174 / 21.736 Toluene Pass Pass **Total Xylenes** ND 2170.0 34.438 / 104.347

#### **Microbiological Test Results - Pass**

**Residual Solvent Test Results - Pass** Residual Solvent analysis utilizing Gas Chron

PCR and fluorescence detection of microbiological impurities

| Shiga toxin-producing Escherichia coli<br>Salmonella spp.       | Pass<br>Pass | Results<br>ND<br>ND | <b>Action Limit</b><br>ND<br>ND |  |  |  |
|---|--------------|---------------------|---------------------------------|--|--|--|
| Aspergillus fumigatus   |              |                     |                                 |  |  |  |
|   |              |                     |                                 |  |  |  |
| Aspergillus terreus   |              |                     |                                 |  |  |  |
| 3M Petrifilm and plate counts for microbiological contamination |              |                     |                                 |  |  |  |

Results (cfu/q)

### **Foreign Material Test Results**

### Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019 Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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Paul Dorenbach, LQC Verified By Date: 02/10/2020

Josh Wurzer, President

Date: 02/10/2020

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