

# HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



## Hemp Analysis - Summary

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



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

# Not Detected<sup>2</sup>

### CANNABINOID PROFILE

**3.4979%** Total CBD<sup>1</sup>

**3.5584%** Total Cannabinoids<sup>3</sup>

Terpenes Not Tested



- 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 =  $\Delta^9\text{THC} + (\text{THCa} (0.877))$  and Total CBD =  $\text{CBD} + (\text{CBDa} (0.877))$ .
- 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 ( $\Delta^9\text{-THC}$ ) 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.

### MICROBIAL IMPURITIES

**PASSED**

## cbdMD PM 60 count 1000 mg Soft-gels

**Tested for:** cbdMD

**Address:**

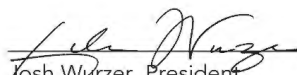
**Batch #:** 704895.1

**Sample ID:** 200211P007

**Date Collected:** 02/11/2020

**Date Received:** 02/11/2020

## Final Approval

  
Josh Wurzer, President  
Date: 02/17/2020

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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SC Laboratories, LLC  
100 Pioneer Street, Suite E  
Santa Cruz, CA 95060  
(866) 435-0709 | sclabs.com

Sample Name: cbdMD PM 60 count 1000 mg Soft-gels  
LIMS Sample ID: 200211P007  
Batch #: 704895.1  
Source METRC UID:  
  
Sample Type: Other  
Batch Count:  
Sample Count: 1 Unit(s)  
Unit Mass: 0.5546 Grams per Unit  
Serving Mass:  
Density:

Date Collected: 02/11/2020  
Date Received: 02/11/2020  
Tested for: cbdMD  
  
License #:  
Address:  
  
Produced by:  
  
License #:  
Address:

### Moisture Test Results

| Moisture | Results (%) |
|----------|-------------|
| Moisture | ND          |

### Cannabinoid Test Results

02/17/2020

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

|       | mg/g   | %      | LOD / LOQ mg/g |
|-------|--------|--------|----------------|
| Δ9THC | ND     | ND     | 0.0180 / 0.060 |
| Δ8THC | ND     | ND     | 0.0180 / 0.060 |
| THCa  | ND     | ND     | 0.0180 / 0.060 |
| THCV  | ND     | ND     | 0.0080 / 0.020 |
| THCVa | ND     | ND     | 0.0260 / 0.080 |
| CBD   | 34.979 | 3.4979 | 0.0180 / 0.060 |
| CBDa  | ND     | ND     | 0.0180 / 0.060 |
| CBDV  | 0.091  | 0.0091 | 0.0080 / 0.020 |
| CBDVa | ND     | ND     | 0.0060 / 0.020 |
| CBG   | 0.385  | 0.0385 | 0.020 / 0.060  |
| CBGa  | ND     | ND     | 0.0160 / 0.040 |
| CBL   | ND     | ND     | 0.0420 / 0.120 |
| CBN   | 0.129  | 0.0129 | 0.0180 / 0.060 |
| CBC   | ND     | ND     | 0.0220 / 0.060 |
| CBCa  | ND     | ND     | 0.0300 / 0.100 |

| Sum of Cannabinoids:         | 35.584 | 3.5584 | 19.735 mg/Unit |
|------------------------------|--------|--------|----------------|
| Total THC (Δ9THC+0.877*THCa) | ND     | ND     | ND             |
| Total CBD (CBD+0.877*CBDa)   | 34.979 | 3.4979 | 19.399 mg/Unit |

Action Limit mg

Δ9THC per Unit ND  
Δ9THC per Serving ND

### Batch Photo



### Terpene Test Results

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

|                     | mg/g | % | LOD / LOQ mg/g |
|---------------------|------|---|----------------|
| ⊠ Bisabolol         | NT   |   |                |
| ⊠ Pinene            | NT   |   |                |
| ⊠ Carene            | NT   |   |                |
| Borneol             | NT   |   |                |
| ⊠ Caryophyllene     | NT   |   |                |
| Geraniol            | NT   |   |                |
| ⊠ Humulene          | NT   |   |                |
| Terpinolene         | NT   |   |                |
| Valencene           | NT   |   |                |
| Menthol             | NT   |   |                |
| Nerolidol           | NT   |   |                |
| Camphene            | NT   |   |                |
| Eucalyptol          | NT   |   |                |
| ⊠ Cedrene           | NT   |   |                |
| Camphor             | NT   |   |                |
| (-)-Isopulegol      | NT   |   |                |
| Sabinene            | NT   |   |                |
| ⊠ Terpinene         | NT   |   |                |
| ⊠ Terpinene         | NT   |   |                |
| Linalool            | NT   |   |                |
| Limonene            | NT   |   |                |
| Myrcene             | NT   |   |                |
| Fenchol             | NT   |   |                |
| ⊠ Phellandrene      | NT   |   |                |
| Caryophyllene Oxide | NT   |   |                |
| Terpineol           | NT   |   |                |
| ⊠ Pinene            | NT   |   |                |
| R-(+)-Pulegone      | NT   |   |                |
| Geranyl Acetate     | NT   |   |                |
| Citronellol         | NT   |   |                |
| p-Cymene            | NT   |   |                |
| Ocimene             | NT   |   |                |
| Guaiol              | NT   |   |                |
| Phytol              | NT   |   |                |
| Isobutylene         | NT   |   |                |

Total Terpene Concentration: NT

### 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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Sample must be marked as public to be viewable

Josh Wurzer, President  
Date: 02/17/2020





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Tested for: cbdMD  
  
License #:  
Address:  
  
Produced by:  
  
License #:  
Address:

### Water Activity Test Results

| Water Activity | Results (Aw) | Action Limit Aw |
|----------------|--------------|-----------------|
|                | 0.77         | 0.77            |

### Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

|           | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|-----------|----------------|-------------------|----------------|
| Cadmium   | NT             |                   |                |
| Copper    | NT             |                   |                |
| Lead      | NT             |                   |                |
| Manganese | NT             |                   |                |
| Mercury   | NT             |                   |                |

### Note

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### Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

|                    | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|--------------------|----------------|-------------------|----------------|
| 1,1-Dichloroethane | NT             |                   |                |
| Acetone            | NT             |                   |                |
| Chloroform         | NT             |                   |                |
| Dibutyl Ether      | NT             |                   |                |
| Dichloromethane    | NT             |                   |                |
| Ethylbenzene       | NT             |                   |                |
| Hexane             | NT             |                   |                |
| Methanol           | NT             |                   |                |
| Methyl acetate     | NT             |                   |                |
| N-Hexane           | NT             |                   |                |
| Propylene Glycol   | NT             |                   |                |
| Toluene            | NT             |                   |                |
| Total Hydrocarbons | NT             |                   |                |

### Microbiological Test Results - Pass

02/12/2020

PCR and fluorescence detection of microbiological impurities

|  | Results | Action Limit |
|--|---------|--------------|
| Shiga toxin-producing Escherichia coli | Pass    | ND           |
| Salmonella spp.                        | Pass    | ND           |
| Aspergillus fumigatus                  | NT      |              |
| Aspergillus niger                      | NT      |              |
| Aspergillus oryzae                     | NT      |              |
| Aspergillus terreus                    | NT      |              |

3M Petrifilm and plate counts for microbiological contamination

|                     | Results (cfu/g) |
|---------------------|-----------------|
| Aerobic Plate Count | NT              |
| Total Viable Count  | NT              |

### Foreign Material Test Results

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*Josh Wurzer*  
Josh Wurzer, President  
Date: 02/17/2020