

# 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

5.2984% Total CBD<sup>1</sup>

5.3122% 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 =  $\Delta^9\text{THC} + (\text{THCa} \cdot 0.877)$  and Total CBD =  $\text{CBD} + (\text{CBDa} \cdot 0.877)$ .
- 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 60 count 1500 mg Soft-gels

**Tested for:** cbdMD

**Address:**

**Batch #:** 373626

**Sample ID:** 191205Q007

**Date Collected:** 12/05/2019

**Date Received:** 12/05/2019

## Final Approval

  
Josh Wurzer, President  
Date: 12/09/2019

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 60 count 1500 mg Soft-gels

LIMS Sample ID: 191205Q007

Batch #: 373626

Source Metr ID(s):

Sample Type: Other

Batch Count:

Sample Count:

Unit Mass: 0.5627 Grams per Unit

Serving Mass:

Density:

Date Collected: 12/05/2019

Date Received: 12/05/2019

Tested for: cbdMD

License #:

Address:

Produced by:

License #:

Address:

## Moisture Test Results

|          | Results (%) |
|----------|-------------|
| Moisture | NT          |

## Cannabinoid Test Results

12/07/2019

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

|       | mg/g   | %      | LOD / LOQ mg/g |
|-------|--------|--------|----------------|
| Δ9THC | ND     | ND     | 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   | 52.984 | 5.2984 | 0.0009 / 0.003 |
| CBDa  | ND     | ND     | 0.0009 / 0.003 |
| CBDV  | 0.138  | 0.0138 | 0.0004 / 0.001 |
| CBDVa | ND     | ND     | 0.0003 / 0.001 |
| CBG   | ND     | ND     | 0.001 / 0.003  |
| CBGa  | ND     | ND     | 0.0008 / 0.002 |
| CBL   | ND     | ND     | 0.0021 / 0.006 |
| CBN   | ND     | ND     | 0.0009 / 0.003 |
| CBC   | ND     | ND     | 0.0011 / 0.003 |
| CBCa  | ND     | ND     | 0.0015 / 0.005 |

| Sum of Cannabinoids:         | 53.122 | 5.3122 | 29.892 mg/Unit |
|------------------------------|--------|--------|----------------|
| Total THC (Δ9THC+0.877*THCa) | ND     | ND     | ND             |
| Total CBD (CBD+0.877*CBDa)   | 52.984 | 5.2984 | 29.814 mg/Unit |

|                   |                 |    |
|-------------------|-----------------|----|
| Δ9THC per Unit    | Action Limit mg | ND |
| Δ9THC per Serving |                 |    |

## 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   |   |                |
| 3 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   |   |                |
| Isoborneol          | NT   |   |                |

Total Terpene Concentration: NT

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
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## Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

|                         | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|-------------------------|----------------|-------------------|----------------|
| Abamectin               | NT             |                   |                |
| Acephate                | NT             |                   |                |
| Acequinocyl             | NT             |                   |                |
| Acetamiprid             | NT             |                   |                |
| Azoxystrobin            | NT             |                   |                |
| Bifenazate              | NT             |                   |                |
| Bifenthrin              | NT             |                   |                |
| Boscalid                | NT             |                   |                |
| Captan                  | NT             |                   |                |
| Carbaryl                | NT             |                   |                |
| Chlorantraniliprole     | NT             |                   |                |
| Clofentezine            | NT             |                   |                |
| Cyfluthrin              | NT             |                   |                |
| Cypermethrin            | NT             |                   |                |
| Diazinon                | NT             |                   |                |
| Dimethomorph            | NT             |                   |                |
| Etoxazole               | NT             |                   |                |
| Fenhexamid              | NT             |                   |                |
| Fenpyroximate           | NT             |                   |                |
| Fonicamid               | NT             |                   |                |
| Fludioxonil             | NT             |                   |                |
| Hexythiazox             | NT             |                   |                |
| Imidacloprid            | NT             |                   |                |
| Kresoxim-methyl         | NT             |                   |                |
| Malathion               | NT             |                   |                |
| Metalaxyl               | NT             |                   |                |
| Methomyl                | NT             |                   |                |
| Myclobutanil            | NT             |                   |                |
| Naled                   | NT             |                   |                |
| Oxamyl                  | NT             |                   |                |
| Pentachloronitrobenzene | NT             |                   |                |
| Permethrin              | NT             |                   |                |
| Phosmet                 | NT             |                   |                |
| Piperonylbutoxide       | NT             |                   |                |
| Prallethrin             | NT             |                   |                |
| Propiconazole           | NT             |                   |                |
| Pyrethrins              | NT             |                   |                |
| Pyridaben               | NT             |                   |                |
| Spinetoram              | NT             |                   |                |
| Spinosad                | NT             |                   |                |
| Spiromesifen            | NT             |                   |                |
| Spirotetramat           | NT             |                   |                |
| Tebuconazole            | NT             |                   |                |
| Thiamethoxam            | NT             |                   |                |
| Trifloxystrobin         | NT             |                   |                |

## Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

|                   | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|-------------------|----------------|-------------------|----------------|
| Aldicarb          | NT             |                   |                |
| Carbofuran        | NT             |                   |                |
| Chlordane         | NT             |                   |                |
| Chlorfenapyr      | NT             |                   |                |
| Chlorpyrifos      | NT             |                   |                |
| Coumaphos         | NT             |                   |                |
| Daminozide        | NT             |                   |                |
| DDVP (Dichlorvos) | NT             |                   |                |
| Dimethoate        | NT             |                   |                |
| Ethoprop(hos)     | NT             |                   |                |
| Etofenprox        | NT             |                   |                |
| Fenoxycarb        | NT             |                   |                |
| Fipronil          | NT             |                   |                |
| Imazalil          | NT             |                   |                |
| Methiocarb        | NT             |                   |                |
| Methyl parathion  | NT             |                   |                |
| Mevinphos         | NT             |                   |                |
| Padlobutrazol     | NT             |                   |                |
| Propoxur          | NT             |                   |                |
| Spiroxamine       | NT             |                   |                |
| Thiacloprid       | NT             |                   |                |

## Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

|                          | Results (µg/kg) | Action Limit µg/kg | LOD / LOQ µg/kg |
|--------------------------|-----------------|--------------------|-----------------|
| Aflatoxin B1, B2, G1, G2 | NT              |                    |                 |
| Ochratoxin A             | NT              |                    |                 |

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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 |
|--------------------|----------------|-------------------|----------------|
| 1,2-Dichloroethane | NT             |                   |                |
| Benzene            | NT             |                   |                |
| Chloroform         | NT             |                   |                |
| Ethylene Oxide     | NT             |                   |                |
| Methylene chloride | NT             |                   |                |
| Trichloroethylene  | NT             |                   |                |
| Acetone            | NT             |                   |                |
| Acetonitrile       | NT             |                   |                |
| Butane             | NT             |                   |                |
| Ethanol            | NT             |                   |                |
| Ethyl acetate      | NT             |                   |                |
| Ethyl ether        | NT             |                   |                |
| Heptane            | NT             |                   |                |
| Hexane             | NT             |                   |                |
| Isopropyl Alcohol  | NT             |                   |                |
| Methanol           | NT             |                   |                |
| Pentane            | NT             |                   |                |
| Propane            | NT             |                   |                |
| Toluene            | NT             |                   |                |
| Total Xylenes      | NT             |                   |                |

## Water Activity Test Results

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

## 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             |                   |                |
| Lead    | NT             |                   |                |
| Arsenic | NT             |                   |                |
| Mercury | NT             |                   |                |

## Note

## Microbiological Test Results - Pass

12/07/2019

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 flavus                     | NT      |              |
| Aspergillus niger                      | NT      |              |
| Aspergillus terreus                    | NT      |              |

3M Petrifilm and plate counts for microbiological contamination

|                      | Results (cfu/g) |
|----------------------|-----------------|
| Aerobic Plate Count  | NT              |
| Total Yeast and Mold | NT              |

## Foreign Material Test Results

NT

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