

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

Not Detected²

CANNABINOID PROFILE

3.6717% Total CBD¹

3.7376% Total Cannabinoids³

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 = $\Delta^9\text{THC} + (\text{THCa} \cdot 0.877)$ 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.

RESIDUAL PESTICIDES

PASSED

RESIDUAL SOLVENTS

PASSED

HEAVY METALS

PASSED

MICROBIAL IMPURITIES

PASSED

cbdMD PM 30 count 500 mg Softgels

Tested for: cbdMD

Address:

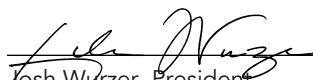
Batch #: 704895

Sample ID: 200220N004

Date Collected: 02/20/2020

Date Received: 02/20/2020

Final Approval


Josh Wurzer, President
Date: 02/24/2020

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 30 count 500 mg Softgels

LIMS Sample ID: 200220N004

Batch #: 704895

Source METRC UID:

Sample Type: Infused, Non-Inhalable

Batch Count:

Sample Count: 1 Unit(s)

Unit Mass: 0.5516 Grams per Unit

Serving Mass:

Density:

Date Collected: 02/20/2020

Date Received: 02/20/2020

Tested for: cbdMD

License #:

Address:

Produced by:

License #:

Address:

Moisture Test Results

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

Cannabinoid Test Results

02/21/2020

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 | 36.717 | 3.6717 | 0.0180 / 0.060 |
| CBDa | ND | ND | 0.0180 / 0.060 |
| CBDV | 0.093 | 0.0093 | 0.0080 / 0.020 |
| CBDVa | ND | ND | 0.0060 / 0.020 |
| CBG | 0.432 | 0.0432 | 0.020 / 0.060 |
| CBGa | ND | ND | 0.0160 / 0.040 |
| CBL | ND | ND | 0.0420 / 0.120 |
| CBN | 0.134 | 0.0134 | 0.0180 / 0.060 |
| CBC | ND | ND | 0.0220 / 0.060 |
| CBCa | ND | ND | 0.0300 / 0.100 |

| Sum of Cannabinoids: | 37.376 | 3.7376 | 20.617 mg/Unit |
|------------------------------|--------|--------|----------------|
| Total THC (Δ9THC+0.877*THCa) | ND | ND | ND |
| Total CBD (CBD+0.877*CBDa) | 36.717 | 3.6717 | 20.253 mg/Unit |

| | Action Limit mg | | |
|-------------------|-----------------|------|----|
| Δ9THC per Unit | 1000.0 | Pass | 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

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Date: 02/24/2020



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Address:

Produced by:

License #:

Address:

Pesticide Test Results - Pass

02/21/2020

Pesticide 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 | Pass ND | 0.3 | 0.030 / 0.091 |
| Acephate | Pass ND | 5.0 | 0.013 / 0.039 |
| Acequinocyl | Pass ND | 4.0 | 0.010 / 0.031 |
| Acetamiprid | Pass ND | 5.0 | 0.013 / 0.038 |
| Azoxystrobin | Pass ND | 40.0 | 0.015 / 0.047 |
| Bifenazate | Pass ND | 5.0 | 0.012 / 0.035 |
| Bifenthrin | Pass ND | 0.5 | 0.013 / 0.038 |
| Boscalid | Pass <LOQ | 10.0 | 0.008 / 0.023 |
| Captan | Pass ND | 5.0 | 0.099 / 0.300 |
| Carbaryl | Pass ND | 0.5 | 0.014 / 0.043 |
| Chlorantraniliprole | Pass ND | 40.0 | 0.020 / 0.061 |
| Clofentezine | Pass ND | 0.5 | 0.009 / 0.027 |
| Cyfluthrin | Pass ND | 1.0 | 0.099 / 0.299 |
| Cypermethrin | Pass ND | 1.0 | 0.030 / 0.091 |
| Diazinon | Pass ND | 0.2 | 0.009 / 0.027 |
| Dimethomorph | Pass ND | 20.0 | 0.018 / 0.055 |
| Etoxazole | Pass ND | 1.5 | 0.007 / 0.022 |
| Fenhexamid | Pass ND | 10.0 | 0.015 / 0.045 |
| Fenpyroximate | Pass ND | 2.0 | 0.012 / 0.036 |
| Fonicamid | Pass ND | 2.0 | 0.022 / 0.066 |
| Fludioxonil | Pass ND | 30.0 | 0.020 / 0.061 |
| Hexythiazox | Pass ND | 2.0 | 0.009 / 0.027 |
| Imidacloprid | Pass ND | 3.0 | 0.017 / 0.050 |
| Kresoxim-methyl | Pass ND | 1.0 | 0.010 / 0.029 |
| Malathion | Pass ND | 5.0 | 0.006 / 0.019 |
| Metalaxyl | Pass ND | 15.0 | 0.011 / 0.033 |
| Methomyl | Pass ND | 0.1 | 0.022 / 0.067 |
| Myclobutanil | Pass ND | 9.0 | 0.015 / 0.044 |
| Naled | Pass ND | 0.5 | 0.010 / 0.031 |
| Oxamyl | Pass ND | 0.2 | 0.014 / 0.042 |
| Pentachloronitrobenzene | Pass ND | 0.2 | 0.020 / 0.061 |
| Permethrin | Pass ND | 20.0 | 0.027 / 0.082 |
| Phosmet | Pass ND | 0.2 | 0.010 / 0.030 |
| Piperonylbutoxide | Pass ND | 8.0 | 0.007 / 0.020 |
| Prallethrin | Pass ND | 0.4 | 0.011 / 0.032 |
| Propiconazole | Pass ND | 20.0 | 0.004 / 0.013 |
| Pyrethrins | Pass ND | 1.0 | 0.012 / 0.036 |
| Pyridaben | Pass ND | 3.0 | 0.007 / 0.020 |
| Spinetoram | Pass ND | 3.0 | 0.006 / 0.017 |
| Spinosad | Pass ND | 3.0 | 0.010 / 0.031 |
| Spiromesifen | Pass ND | 12.0 | 0.005 / 0.015 |
| Spirotetramat | Pass ND | 13.0 | 0.014 / 0.042 |
| Tebuconazole | Pass ND | 2.0 | 0.006 / 0.018 |
| Thiamethoxam | Pass ND | 4.5 | 0.011 / 0.033 |
| Trifloxystrobin | Pass ND | 30.0 | 0.007 / 0.020 |

Pesticide Test Results - Pass

02/21/2020

Pesticide 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 | Pass ND | ND | 0.030 / 0.091 |
| Carbofuran | Pass ND | ND | 0.029 / 0.089 |
| Chlordane | Pass ND | ND | 0.032 / 0.097 |
| Chlorfenapyr | Pass ND | ND | 0.030 / 0.090 |
| Chlorpyrifos | Pass ND | ND | 0.029 / 0.089 |
| Coumaphos | Pass ND | ND | 0.029 / 0.089 |
| Daminozide | Pass ND | ND | 0.030 / 0.091 |
| DDVP (Dichlorvos) | Pass ND | ND | 0.029 / 0.089 |
| Dimethoate | Pass ND | ND | 0.029 / 0.089 |
| Ethoprop(hos) | Pass ND | ND | 0.029 / 0.089 |
| Etofenprox | Pass ND | ND | 0.029 / 0.089 |
| Fenoxycarb | Pass ND | ND | 0.029 / 0.089 |
| Fipronil | Pass ND | ND | 0.029 / 0.089 |
| Imazalil | Pass ND | ND | 0.029 / 0.089 |
| Methiocarb | Pass ND | ND | 0.029 / 0.089 |
| Methyl parathion | Pass ND | ND | 0.029 / 0.089 |
| Mevinphos | Pass ND | ND | 0.029 / 0.089 |
| Pacllobutrazol | Pass ND | ND | 0.029 / 0.089 |
| Propoxur | Pass ND | ND | 0.029 / 0.089 |
| Spiroxamine | Pass ND | ND | 0.029 / 0.089 |
| Thiacloprid | Pass ND | ND | 0.029 / 0.089 |

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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LIMS Sample ID: 200220N004

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Batch Count:

Sample Count: 1 Unit(s)

Unit Mass: 0.5516 Grams per Unit

Serving Mass:

Density:

Date Collected: 02/20/2020

Date Received: 02/20/2020

Tested for: cbdMD

License #:

Address:

Produced by:

License #:

Address:

Residual Solvent Test Results - Pass

02/22/2020

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

| | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|--------------------|----------------|-------------------|------------------|
| 1,2-Dichloroethane | Pass ND | 1.0 | 0.111 / 0.336 |
| Benzene | Pass ND | 1.0 | 0.043 / 0.132 |
| Chloroform | Pass ND | 1.0 | 0.064 / 0.195 |
| Ethylene Oxide | Pass ND | 1.0 | 0.136 / 0.413 |
| Methylene chloride | Pass ND | 1.0 | 0.172 / 0.521 |
| Trichloroethylene | Pass ND | 1.0 | 0.040 / 0.120 |
| Acetone | Pass ND | 5000.0 | 14.703 / 44.549 |
| Acetonitrile | Pass ND | 410.0 | 2.727 / 8.262 |
| Butane | Pass ND | 5000.0 | 5.672 / 17.185 |
| Ethanol | Pass ND | 5000.0 | 11.775 / 35.679 |
| Ethyl acetate | Pass ND | 5000.0 | 16.227 / 49.169 |
| 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 / 46.536 |
| Methanol | Pass ND | 3000.0 | 15.584 / 47.220 |
| Pentane | Pass ND | 5000.0 | 12.355 / 37.434 |
| Propane | Pass ND | 5000.0 | 1.359 / 4.117 |
| Toluene | Pass ND | 890.0 | 7.174 / 21.736 |
| Total Xylenes | Pass ND | 2170.0 | 34.438 / 104.347 |

Microbiological Test Results - Pass

02/24/2020

PCR and fluorescence detection of microbiological impurities

| | Results | Action Limit |
|--|---------|--------------|
| Shiga toxin-producing Escherichia coli | Pass ND | ND |
| Salmonella spp. | Pass ND | 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 | ND |
| Total Yeast and Mold | ND |

Foreign Material Test Results

NT

Water Activity Test Results

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

Heavy Metal Test Results - Pass

02/23/2020

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

| | Results (µg/g) | Action Limit µg/g | LOD / LOQ µg/g |
|---------|----------------|-------------------|----------------|
| Cadmium | Pass ND | 0.5 | 0.012 / 0.035 |
| Lead | Pass ND | 0.5 | 0.031 / 0.095 |
| Arsenic | Pass ND | 1.5 | 0.013 / 0.039 |
| Mercury | Pass ND | 3.0 | 0.002 / 0.005 |

Note

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