

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

6.0407% Total CBD¹

6.0997% Total Cannabinoids³

Terpenes See page 2



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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 = $\Delta 9\text{THC} + (\text{THCa} (0.877))$ 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 (Δ -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 SOLVENTS

PASSED

MICROBIAL IMPURITIES

PASSED

cbdMD Tincture 30 mL Mint 1500 mg

Tested for: cbdMD

Address:

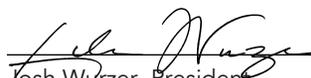
Batch #: 90412C6M

Sample ID: 191206Q025

Date Collected: 12/06/2019

Date Received: 12/06/2019

Final Approval


Josh Wurzer, President
Date: 12/18/2019

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 Tincture 30 mL Mint 1500 mg

LIMS Sample ID: 191206Q025

Batch #: 90412C6M

Source Metric ID(s):

Sample Type: Other

Batch Count:

Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

Density: 0.9346 g/mL

Date Collected: 12/06/2019

Date Received: 12/06/2019

Tested for: cbdMD

License #:

Address:

Produced by:

License #:

Address:

Moisture Test Results

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

Cannabinoid Test Results 12/18/2019

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

| | mg/mL | % | LOD / LOQ mg/mL |
|-------|--------|--------|-----------------|
| 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 | 56.456 | 6.0407 | 0.0009 / 0.003 |
| CBDa | ND | ND | 0.0009 / 0.003 |
| CBDV | 0.157 | 0.0168 | 0.0004 / 0.001 |
| CBDVa | ND | ND | 0.0003 / 0.001 |
| CBG | 0.307 | 0.0328 | 0.001 / 0.003 |
| CBGa | ND | ND | 0.0008 / 0.002 |
| CBL | ND | ND | 0.0021 / 0.006 |
| CBN | 0.088 | 0.0094 | 0.0009 / 0.003 |
| CBC | ND | ND | 0.0011 / 0.003 |
| CBCa | ND | ND | 0.0015 / 0.005 |

| Sum of Cannabinoids: | 57.008 | 6.0997 | 1710.240 mg/Unit |
|------------------------------|--------|--------|------------------|
| Total THC (Δ9THC+0.877*THCa) | ND | ND | ND |
| Total CBD (CBD+0.877*CBDa) | 56.456 | 6.0407 | 1693.680 mg/Unit |

| | |
|-------------------|----|
| Δ9THC per Unit | ND |
| Δ9THC per Serving | ND |

Batch Photo



Terpene Test Results

12/10/2019

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

| | mg/g | % | LOD / LOQ mg/g |
|---------------------|-------|--------|----------------|
| Pinene | ND | ND | 0.022 / 0.067 |
| Camphene | ND | ND | 0.027 / 0.08 |
| Sabinene | ND | ND | 0.027 / 0.082 |
| Pinene | ND | ND | 0.027 / 0.081 |
| Myrcene | <LOQ | <LOQ | 0.027 / 0.082 |
| Phellandrene | ND | ND | 0.037 / 0.111 |
| 3 Carene | ND | ND | 0.029 / 0.087 |
| Terpinene | ND | ND | 0.03 / 0.09 |
| Limonene | 0.689 | 0.0689 | 0.013 / 0.039 |
| Eucalyptol | ND | ND | 0.021 / 0.063 |
| Ocimene | ND | ND | 0.028 / 0.085 |
| Terpinene | ND | ND | 0.03 / 0.09 |
| Sabinene Hydrate | ND | ND | 0.018 / 0.054 |
| Fenchone | ND | ND | 0.03 / 0.092 |
| Terpinolene | ND | ND | 0.022 / 0.067 |
| Linalool | ND | ND | 0.019 / 0.058 |
| Fenchol | ND | ND | 0.023 / 0.069 |
| (-)-Isopulegol | ND | ND | 0.013 / 0.04 |
| Camphor | ND | ND | 0.054 / 0.163 |
| Isoborneol | ND | ND | 0.033 / 0.101 |
| Borneol | ND | ND | 0.048 / 0.146 |
| Menthol | ND | ND | 0.022 / 0.067 |
| Terpineol | ND | ND | 0.022 / 0.068 |
| Nerol | ND | ND | 0.023 / 0.068 |
| R-(+)-Pulegone | ND | ND | 0.022 / 0.068 |
| Geraniol | ND | ND | 0.017 / 0.05 |
| Geranyl Acetate | ND | ND | 0.016 / 0.048 |
| Cedrene | ND | ND | 0.017 / 0.051 |
| Caryophyllene | ND | ND | 0.018 / 0.054 |
| Humulene | ND | ND | 0.013 / 0.038 |
| Valencene | <LOQ | <LOQ | 0.008 / 0.023 |
| Nerolidol | ND | ND | 0.035 / 0.106 |
| Caryophyllene Oxide | ND | ND | 0.028 / 0.084 |
| Guaiol | ND | ND | 0.022 / 0.066 |
| Cedrol | ND | ND | 0.029 / 0.086 |
| Bisabolol | ND | ND | 0.017 / 0.051 |

Total Terpene Concentration: 0.689 0.0689

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: 12/18/2019



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Sample Name: cbdMD Tincture 30 mL Mint 1500 mg

LIMS Sample ID: 191206Q025

Batch #: 90412C6M

Source Metr ID(s):

Sample Type: Other

Batch Count:

Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

Density: 0.9346 g/mL

Date Collected: 12/06/2019

Date Received: 12/06/2019

Tested for: cbdMD

License #:

Address:

Produced by:

License #:

Address:

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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Batch Count:
Sample Count:
Unit Volume: 30 Milliliters per Unit
Serving Mass:
Density: 0.9346 g/mL

Date Collected: 12/06/2019
Date Received: 12/06/2019
Tested for: cbdMD
License #:
Address:
Produced by:
License #:
Address:

Residual Solvent Test Results - Pass

12/08/2019

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 | 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

12/09/2019

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 | NT |
| Total Yeast and Mold | NT |

Foreign Material Test Results

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

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