

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

0.2417%²

CANNABINOID PROFILE

11.865% Total CBD¹

12.4837% 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.

3000mg Tincture

Tested for: Deep Relief CBD

Address:

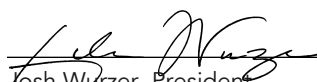
Batch #:

Sample ID: 191104P002

Date Collected: 11/04/2019

Date Received: 11/04/2019

Final Approval


Josh Wurzer, President
Date: 11/09/2019

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: 3000mg Tincture
LIMS Sample ID: 191104P002
Batch #:
Source Metric ID(s):

Sample Type: Infused, Liquid Edible
Batch Count:
Sample Count:
Unit Volume: 29.5888 Milliliters per Unit
Serving Mass:
Density: 0.9632 g/mL

Date Collected: 11/04/2019
Date Received: 11/04/2019
Tested for: Deep Relief CBD

License #:
Address:

Produced by:

License #:
Address:

Moisture Test Results

Moisture Results (%)
NT

Cannabinoid Test Results

11/06/2019

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

| | mg/mL | % | LOD / LOQ mg/mL |
|-------|---------|---------|-----------------|
| Δ9THC | 2.328 | 0.2417 | 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 | 114.284 | 11.8650 | 0.0009 / 0.003 |
| CBDa | ND | ND | 0.0009 / 0.003 |
| CBDV | 0.239 | 0.0248 | 0.0004 / 0.001 |
| CBDVa | ND | ND | 0.0003 / 0.001 |
| CBG | 0.801 | 0.0832 | 0.001 / 0.003 |
| CBGa | ND | ND | 0.0008 / 0.002 |
| CBL | ND | ND | 0.0021 / 0.006 |
| CBN | 0.038 | 0.0039 | 0.0009 / 0.003 |
| CBC | 2.553 | 0.2651 | 0.0011 / 0.003 |
| CBCa | ND | ND | 0.0015 / 0.005 |

Sum of Cannabinoids: 120.243 12.4837 3557.846 mg/Unit
Total THC (Δ9THC+0.877*THCa) 2.328 0.2417 68.883 mg/Unit
Total CBD (CBD+0.877*CBDa) 114.284 11.865 3381.526 mg/Unit

Δ9THC per Unit Action Limit mg 1000.0 Pass 68.883 mg/Unit
Δ9THC per Serving

Batch Photo



Terpene Test Results

11/08/2019

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

| | mg/g | % | LOD / LOQ mg/g |
|---|-------|--------|----------------|
| <input checked="" type="checkbox"/> Pinene | <LOQ | <LOQ | 0.022 / 0.067 |
| Camphene | ND | ND | 0.027 / 0.08 |
| Sabinene | ND | ND | 0.027 / 0.082 |
| <input checked="" type="checkbox"/> Pinene | ND | ND | 0.027 / 0.081 |
| Myrcene | 0.140 | 0.0140 | 0.027 / 0.082 |
| <input checked="" type="checkbox"/> Phellandrene | ND | ND | 0.037 / 0.111 |
| 3 Carene | ND | ND | 0.029 / 0.087 |
| <input checked="" type="checkbox"/> Terpinene | ND | ND | 0.03 / 0.09 |
| Limonene | <LOQ | <LOQ | 0.013 / 0.039 |
| Eucalyptol | ND | ND | 0.021 / 0.063 |
| Ocimene | ND | ND | 0.028 / 0.085 |
| <input checked="" type="checkbox"/> 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 |
| <input checked="" type="checkbox"/> Cedrene | ND | ND | 0.017 / 0.051 |
| <input checked="" type="checkbox"/> Caryophyllene | 0.956 | 0.0956 | 0.018 / 0.054 |
| <input checked="" type="checkbox"/> Humulene | 0.247 | 0.0247 | 0.013 / 0.038 |
| Valencene | <LOQ | <LOQ | 0.008 / 0.023 |
| Nerolidol | ND | ND | 0.035 / 0.106 |
| Caryophyllene Oxide | 0.200 | 0.0200 | 0.028 / 0.084 |
| Guaiol | ND | ND | 0.022 / 0.066 |
| Cedrol | ND | ND | 0.029 / 0.086 |
| <input checked="" type="checkbox"/> Bisabolol | 0.477 | 0.0477 | 0.017 / 0.051 |

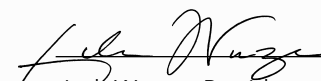
Total Terpene Concentration: 2.020 0.202

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.



Scan to verify at sclabs.com
Sample must be marked as public to be viewable


Josh Wurzer, President
Date: 11/09/2019



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Source Metrc ID(s):

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Sample Count:
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Density: 0.9632 g/mL

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License #:
Address:

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License #:
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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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Address:

Produced by:

License #:
Address:

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 | | |

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

| | Results | Action Limit |
|--|---------|--------------|
| Shiga toxin-producing Escherichia coli | NT | |
| Salmonella spp. | NT | |
| 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

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