

# 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

1.9247% Total CBD<sup>1</sup>

1.9904% 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-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

**See page 4**

## Canna River Cooling Recovery Balm

**Tested for:** Midnight Mfg

**Address:**

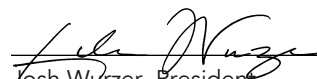
**Batch #:** CC017-015

**Sample ID:** 200130M002

**Date Collected:** 01/30/2020

**Date Received:** 01/30/2020

## Final Approval

  
Josh Wurzer, President  
Date: 02/03/2020

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: Canna River Cooling Recovery Balm

LIMS Sample ID: 200130M002

Batch #: CC017-015

Source METRC UID:

Sample Type: Other

Batch Count:

Sample Count:

Unit Volume: 60 Milliliters per Unit

Serving Mass:

Density:

Date Collected: 01/30/2020

Date Received: 01/30/2020

Tested for: Midnight Mfg

License #:

Address:

Produced by:

License #:

Address:

## Moisture Test Results

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

## Cannabinoid Test Results

01/31/2020

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   | 19.247 | 1.9247 | 0.0009 / 0.003 |
| CBDa  | ND     | ND     | 0.0009 / 0.003 |
| CBDV  | 0.082  | 0.0082 | 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   | 0.028  | 0.0028 | 0.0021 / 0.006 |
| CBN   | 0.249  | 0.0249 | 0.0009 / 0.003 |
| CBC   | 0.298  | 0.0298 | 0.0011 / 0.003 |
| CBCa  | ND     | ND     | 0.0015 / 0.005 |

| Sum of Cannabinoids:         | 19.904 | 1.9904 | 1194.240 mg/Unit |
|------------------------------|--------|--------|------------------|
| Total THC (Δ9THC+0.877*THCa) | ND     | ND     | ND               |
| Total CBD (CBD+0.877*CBDa)   | 19.247 | 1.9247 | 1154.820 mg/Unit |

|                   |    |
|-------------------|----|
| 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   |   |                |
| 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  
Authority: Section 26013, Business and Professions Code.  
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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Josh Wurzer, President  
Date: 02/03/2020



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Produced by:

License #:

Address:

**Pesticide Test Results - Pass**

**02/01/2020**

Pesticide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

|                   |      | Results (µg/g) | Action Limit µg/g | Reporting Limit µg/g |
|-------------------|------|----------------|-------------------|----------------------|
| Abamectin         | Pass | ND             | 0.3               | 0.091                |
| Bifenazate        | Pass | ND             | 5.0               | 0.035                |
| Bifenthrin        | Pass | ND             | 0.5               | 0.038                |
| Boscalid          | Pass | ND             | 10.0              | 0.023                |
| Etoxazole         | Pass | ND             | 1.5               | 0.022                |
| Imidacloprid      | Pass | ND             | 3.0               | 0.050                |
| Myclobutanil      | Pass | ND             | 9.0               | 0.044                |
| Piperonylbutoxide | Pass | ND             | 8.0               | 0.020                |
| Pyrethrins        | Pass | ND             | 1.0               | 0.036                |
| Spinosad          | Pass | ND             | 3.0               | 0.031                |
| Spiromesifen      | Pass | ND             | 12.0              | 0.015                |
| Spirotetramat     | Pass | ND             | 13.0              | 0.042                |

**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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Serving Mass:

Density:

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Tested for: Midnight Mfg

License #:

Address:

Produced by:

License #:

Address:

## Residual Solvent Test Results - Pass

02/01/2020

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

02/02/2020

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  | 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

02/01/2020

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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