

# 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

0.276% Total CBD<sup>1</sup>

0.2984% 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**

### MICROBIAL IMPURITIES

**PASSED**

## CBD BARS

Tested for: Lulu's Botanicals

Address:

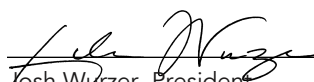
Batch #:

Sample ID: 191105J004

Date Collected: 11/05/2019

Date Received: 11/06/2019

## Final Approval

  
Josh Wurzer, President  
Date: 11/07/2019

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: CBD BARS  
LIMS Sample ID: 191105J004  
Batch #:  
Source Metr ID(s):  
  
Sample Type: Infused, Solid Edible  
Batch Count:  
Sample Count:  
Unit Mass: 28 Grams per Unit  
Serving Mass:  
Density:

Date Collected: 11/05/2019  
Date Received: 11/06/2019  
Tested for: Lulu's Botanicals  
  
License #:  
Address:  
  
Produced by:  
  
License #:  
Address:

## Moisture Test Results

	Results (%)
Moisture	NT

## Cannabinoid Test Results

11/07/2019

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	2.760	0.2760	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.010	0.0010	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	0.152	0.0152	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	0.025	0.0025	0.0009 / 0.003
CBC	0.037	0.0037	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005

Sum of Cannabinoids:	2.984	0.2984	83.552 mg/Unit
Total THC (Δ9THC+0.877*THCa)	ND	ND	ND
Total CBD (CBD+0.877*CBDa)	2.760	0.276	77.280 mg/Unit

	Action Limit mg		
Δ9THC per Unit	110.0	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

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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**Pesticide Test Results - Pass**

**11/07/2019**

Pesticide, Fungicide 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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Josh Wurzer, President  
Date: 11/07/2019



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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		

## 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

## Microbiological Test Results - Pass

11/07/2019

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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