### **HEMP LABORATORY TEST**

# CERTIFICATE OF ANALYSIS



# Hemp Analysis - Summary

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

#### TOTAL THC1

# Not Detected<sup>2</sup>

#### **CANNABINOID PROFILE**

99.7293% Total CBD<sup>1</sup>
99.9689% Total Cannabinoids<sup>3</sup>
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 =  $\Delta$ 9THC + (THCa (0.877)) and Total CBD = CBD + (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 PESTICIDES** 

**PASSED** 

**PASSED** 

RESIDUAL SOLVENTS
PASSED

**HEAVY METALS** 

MICROBIAL IMPURITIES

See page 4

CBD Isolate: 8138

Tested for:

Address:

Shikai Products

200226N003

orinkar i ro

**Date Collected:** 02/26/2020

Date Received:

Sample ID:

02/26/2020

**Batch #:** 8138

Final Approval

Danielle Deschene, LQC Verified By

Date: 03/01/2020

Josh Wurzer, President

Date: 03/01/2020

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.



SC Laboratories, LLC 100 Pioneer Street, Suite E Santa Cruz, CA 95060 (866) 435-0709 | sclabs.com

Sample Name: CBD Isolate: 8138

LIMS Sample ID: 200226N003

Batch #: 8138

Source METRC UID:

Sample Type: Concentrate, Product Inhalable

Batch Count: Sample Count: Unit Mass: Serving Mass:

Density:

#### **Moisture Test Results**

**Cannabinoid Test Results** 

Results (%)
Moisture NT

Cannabinoid analysis utilizing High Performance Liquid Chromatography

(HPLC, QSP 5-4-	4-4)			
		mg/g	%	LOD / LOQ mg/g
Δ9THC		ND	ND	0.052 / 0.158
Δ8THC		ND	ND	0.053 / 0.162
THCa		ND	ND	0.052 / 0.156
THCV		ND	ND	0.023 / 0.069
THCVa		ND	ND	0.091 / 0.276
CBD		997.293	99.7293	0.052 / 0.158
CBDa		ND	ND	0.052 / 0.156
CBDV		2.396	0.2396	0.021 / 0.063
CBDVa		ND	ND	0.037 / 0.111
CBG		ND	ND	0.03 / 0.092
CBGa		ND	ND	0.044 / 0.133
CBL		ND	ND	0.13 / 0.393
CBN		ND	ND	0.052 / 0.157
CBC		ND	ND	0.031 / 0.094
CBCa		ND	ND	0.129 / 0.392

 Sum of Cannabinoids:
 999.689
 99.9689

 Total THC (Δ9THC+0.877\*THCa)
 ND
 ND

 Total CBD (CBD+0.877\*CBDa)
 997.293
 99.7293

Action Limit mg

Δ9THC per Unit Δ9THC per Serving

#### **Batch Photo**



Date Collected: 02/26/2020
Date Received: 02/26/2020

Tested for: License #:

Address:

Produced by:

License #:

Address:

02/27/2020

## **Terpene Test Results**

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

Shikai Products

Detection	(GC - FID)		%	LOD / LOQ mg/g
		mg/g	70	LOD / LOQ mg/g
		NT		
		NT		
Geraniol		NT		
		NT		
Terpinolene		NT		
Valencene		NT		
Menthol		NT		
		NT		
Camphene		NT		
		NT		
Myrcene		NT		
		NT		
R-(+)-Pulego				
Geranyl Ace				
Phytol		NT		

**Total Terpene Concentration:** 

## 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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Danielle Deschene, LQC Verified By Date: 03/01/2020

Josh Wurzer, President Date: 03/01/2020



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Sample Name: CBD Isolate: 8138

200226N003 LIMS Sample ID:

Batch #: 8138

Source METRC UID:

Sample Type: Concentrate, Product Inhalable

Batch Count: Sample Count: Unit Mass: Serving Mass:

Date Collected: 02/26/2020 Date Received: 02/26/2020 Tested for: Shikai Products

License #:

Address:

Produced by:

License #:

Address:

#### **Pesticide Test Results - Pass**

02/29/2020

Pesticide and plant growth regulator analysis utilizing HPLC-Mass

Spectrometry

Density:

-1		Results (µg/g)	Action Limit µg/g	Reporting Limit µg/g
Abamectin	Pass	ND	0.1	0.091
Bifenazate	Pass	ND	0.1	0.035
Bifenthrin	Pass	ND	3.0	0.038
Boscalid	Pass	ND	0.1	0.023
Etoxazole	Pass	ND	0.1	0.022
Imidacloprid	Pass	ND	5.0	0.050
Myclobutanil	Pass	ND	0.1	0.044
Piperonylbutoxide	Pass	ND	3.0	0.020
Pyrethrins	Pass	ND	0.5	0.036
Spinosad	Pass	ND	0.1	0.031
Spiromesifen	Pass	ND	0.1	0.015
Spirotetramat	Pass	ND	0.1	0.042

## **Mycotoxin Test Results**

Mycotoxin analysis utilizing HPLC-Mass Spectrometry
Results (μg/kg) Action Limit μg/kg

LOD / LOQ µg/kg

# 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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Danielle Deschene, LQC Verified By Date: 03/01/2020

Josh Wurzer, President Date: 03/01/2020



SC Laboratories, LLC 100 Pioneer Street, Suite E Santa Cruz, CA 95060 (866) 435-0709 | sclabs.com

Sample Name: CBD Isolate: 8138

LIMS Sample ID: 200226N003

Batch #: 8138

Source METRC UID:

Sample Type: Concentrate, Product Inhalable

Batch Count: Sample Count: Unit Mass: Serving Mass:

Density:

Total Xylenes

**Residual Solvent Test Results - Pass** 

02/28/2020

Residual Solvent analysis utilizing Gas Chromatography - Mass

Spectrometry (GC - MS) LOD / LOQ µg/g Results (µg/g) Action Limit µg/g 1,2-Dichloroethane Pass 0.111 / 0.336 ND 10 1.0 0.043 / 0.132 Benzene Pass ND Chloroform 0.064 / 0.195 Pass ND 1.0 Ethylene Oxide 0.136 / 0.413 Pass ND 10 Methylene chloride Pass ND 1.0 0.172 / 0.521 0.040 / 0.120 Trichloroethylene Pass ND 1.0 Acetone Pass ND 5000.0 14.703 / 44.549 Acetonitrile Pass ND 410.0 2.727 / 8.262 5.672 / 1<mark>7.</mark>185 11.775 / 35.679 Butane Pass ND 5000.0 Ethanol Pass ND 5000.0 16.227 / 49.169 Ethyl acetate Pass ND 5000.0 Ethyl ether Pass ND 5000.0 11.608 / 35.172 Heptane Pass 283.113 5000.0 12.982 / 39.336 Hexane ND 290.0 1.816 / 5.502 Pass Isopropyl Alcohol Pass ND 5000.0 15.358 / 46.536 Methanol Pass ND 3000.0 15.584 / 47.220 ND 5000.0 12.355 / 37.434 Pentane Pass 5000.0 1.359 / 4.117 Propane Pass ND 7.174 / 21.736 Toluene Pass ND

2170.0

**Microbiological Test Results** 

Pass

03/01/2020

**Action Limit** 

34.438 / 104.347

PCR and fluorescence detection of microbiological impurities

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** 

NIT

Date Collected: 02/26/2020
Date Received: 02/26/2020

License #:
Address:

Tested for:

Produced by:

License #: Address:

**Water Activity Test Results** 

Results (Aw) Action Limit Aw

Shikai Products

**Heavy Metal Test Results - Pass** 

02/27/2020

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

LOD / LOQ µg/g Results (µg/g) Action Limit µg/g Pass Cadmium ND 0.2 0.012 / 0.035 ND 0.5 0.031 / 0.095 Lead Pass 0.2 0.013 / 0.039 Pass Arsenic ND Pass 0.002 / 0.005 Mercury ND 0.1

Note

#### Sample Certification

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Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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Josh Wurzer, President Date: 03/01/2020