HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC1

PASSED² Not Detected

CANNABINOID PROFILE

0.439% Total CBD¹ **0.4397%** Total Cannabinoids³







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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 = Δ 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.

CBD Borage 19283_#13

Tested for: Shikai Products Sample ID: 191014Q019

Address: Date Collected: 10/14/2019

Date Received: 10/14/2019

Batch #: 19283

Final Approval

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.

These results relate only to the sample



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

Sample Name: CBD Borage 19283_#13

LIMS Sample ID: 191014Q019

Batch #: 19283

Source Metrc ID(s):

Sample Type: Topical, Other

Batch Count: Sample Count:

Unit Mass: 1 Grams per Unit

Serving Mass:

Density:

Moisture Test Results

	Results (%)		
Moisture			

Cannabinoid Test Results

10/15/2019

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

Sum of Cannabi	anide:	4 207	0.4207	4 207 mg/llnit
CBCa		ND	ND	0.0015 / 0.005
CBC		ND	ND	0.0011 / 0.003
CBN		ND	ND	0.0009 / 0.003
CBL		ND	ND	0.0021 / 0.006
CBGa		ND	ND	0.0008 / 0.002
CBG		ND	ND	0.001 / 0.003
CBDVa		ND	ND	0.0003 / 0.001
CBDV		0.007	0.0007	0.0004 / 0.001
CBDa		ND	ND	0.0009 / 0.003
CBD		4.390	0.4390	0.0009 / 0.003
THCVa		ND	ND	0.0013 / 0.004
THCV		ND	ND	0.0004 / 0.001
THCa		ND	ND	0.0009 / 0.003
Δ8ΤΗС		ND	ND	0.0009 / 0.003
Δ9ΤΗС		ND	ND	0.0009 / 0.003
(20) 20. 0 .	,	mg/g	%	LOD / LOQ mg/g

Sum of Cannabinoids:	4.397	0.4397	4.397 mg/Unit
Total THC (Δ9THC+0.877*THCa)	ND	ND	ND
Total CBD (CBD+0.877*CBDa)	4.390	0.439	4.390 mg/Unit

Action Limit mg

Δ9THC per Unit Δ9THC per Serving ND

Batch Photo



 Date Collected:
 10/14/2019

 Date Received:
 10/14/2019

License #:
Address:

Tested for:

Produced by:

License #:
Address:

Overall result for batch 19283: Pass

Terpene Test Results

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

Shikai Products

Detection (GC - FID)	mg/g	%	LOD / LOQ mg/g
	mg/g NT	76	LOD / LOQ mg/g
	NT		
Geraniol	NT		
	NT		
	NT		
Valencene	NT		
Menthol	NT		
	NT		
Myrcene	NT		
Fenchol	NT		
	NT		
Caryophyllene Oxide	NT		
	NT		
R-(+)-Pulegone			
Geranyl Acetate			
Citronellol			
Phytol			

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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Josh Wurzer, President Date: 10/15/2019



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Sample Name: CBD Borage 19283_#13

LIMS Sample ID: 191014Q019

Batch #: 19283

Source Metrc ID(s):

Sample Type: Topical, Other

Batch Count: Sample Count:

Unit Mass: 1 Grams per Unit

Serving Mass:

Density:

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

HPLC-iviass Spectrometry a	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
	NT.		
Hexythiazox			
Kresoxim-methyl			
Malathion			
Methomyl			
Myclobutanil			
Naled			
Oxamyl			
Phosmet	NT		
	NT NT		
	NT		
	NT		
	NT NT		
	NT NT		
Spirotetramat	NT		
	INI		

Date Collected: 10/14/2019

Date Received: 10/14/2019

Tested for: Shikai Products

License #:
Address:

Produced by:

License #: Address:

Overall result for batch 19283: Pass

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

Addicated NT
Carbofuran NT
Chlordane NT
Chlordenapyr 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

Results (µg/g) Action Limit µg/g

LOD / LOQ µg/g

LOD / LOQ µg/kg

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

Aflatoxin B1, B2, G1, G2

Results (µg/kg) Action Limit µg/kg

NT

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LIMS Sample ID: 191014Q019

19283 Batch #:

Source Metrc ID(s):

Sample Type: Topical, Other

Batch Count: Sample Count:

Unit Mass: 1 Grams per Unit

Serving Mass:

Density:

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

spectrometry (GC - Wis)			
	Results (μg/g)	Action Limit μg/g	LOD / LOQ µg/g
1,2-Dichloroethane			
Methylene chloride			
Butane			
Toluene			
Total Vylonos			

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

Shiga toxin-producing Escherichia coli	NT
Aspergillus fumigatus	

3M Petrifilm and plate counts for microbiological contamination Results (cfu/q)

Foreign Material Test Results

Date Collected: 10/14/2019 Date Received: 10/14/2019

License #: Address:

Tested for:

Produced by:

License #: Address:

Overall result for batch 19283: Pass

Water Activity Test Results

Results (Aw) **Action Limit Aw**

Shikai Products

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass

Results (µg/g)

Action Limit µg/g

LOD / LOQ µg/g

Spectrometry (ICP-MS)

Note

Action Limit

Sample Certification

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