

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

0.0095%²

CANNABINOID PROFILE

3.8279% Total CBD¹

3.8867% 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.

RESIDUAL PESTICIDES

PASSED

Sleep

Tested for: Terravita CBD

Address:


Batch #:

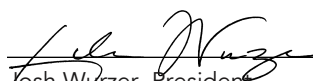
Sample ID: 200117R003

Date Collected: 01/17/2020

Date Received: 01/17/2020

Final Approval


Paul Dorenbach, LQC Verified By
Date: 01/24/2020


Josh Wurzer, President
Date: 01/24/2020

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.



HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS

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

Sample Name: Sleep
LIMS Sample ID: 200117R003
Batch #:
Source METRC UID:
Sample Type: Other
Batch Count:
Sample Count:
Unit Volume: 30 Milliliters per Unit
Serving Mass:
Density: 0.9453 g/mL

Date Collected: 01/17/2020
Date Received: 01/17/2020
Tested for: Terravita CBD
License #:
Address:
Produced by:
License #:
Address:

Moisture Test Results

Moisture Results (%)
NT

Cannabinoid Test Results

01/20/2020

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

	mg/mL	%	LOD / LOQ mg/mL
Δ9THC	0.090	0.0095	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	36.185	3.8279	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.207	0.0219	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	0.074	0.0078	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	0.011	0.0012	0.0021 / 0.006
CBN	0.017	0.0018	0.0009 / 0.003
CBC	0.157	0.0166	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005

Sum of Cannabinoids:	36.741	3.8867	1102.230 mg/Unit
Total THC (Δ9THC+0.877*THCa)	0.090	0.0095	2.700 mg/Unit
Total CBD (CBD+0.877*CBDa)	36.185	3.8279	1085.550 mg/Unit

Action Limit mg

Δ9THC per Unit 2.700 mg/Unit
Δ9THC per Serving

Batch Photo



Terpene Test Results

01/22/2020

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

	mg/g	%	LOD / LOQ mg/g
☑ Pinene	0.171	0.0171	0.022 / 0.067
Camphene	ND	ND	0.027 / 0.08
Sabinene	0.121	0.0121	0.027 / 0.082
☑ Pinene	<LOQ	<LOQ	0.027 / 0.081
Myrcene	2.150	0.2150	0.027 / 0.082
☑ Phellandrene	0.121	0.0121	0.037 / 0.111
3 Carene	ND	ND	0.029 / 0.087
☑ Terpinene	ND	ND	0.03 / 0.09
Limonene	31.248	3.1248	0.013 / 0.039
Eucalyptol	<LOQ	<LOQ	0.021 / 0.063
Ocimene	ND	ND	0.028 / 0.085
☑ Terpinene	ND	ND	0.03 / 0.09
Sabinene Hydrate	ND	ND	0.018 / 0.054
Fenchone	ND	ND	0.03 / 0.092
Terpinolene	2.031	0.2031	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
☑ Cedrene	ND	ND	0.017 / 0.051
☑ Caryophyllene	1.276	0.1276	0.018 / 0.054
☑ Humulene	0.103	0.0103	0.013 / 0.038
Valencene	ND	ND	0.008 / 0.023
Nerolidol	ND	ND	0.035 / 0.106
Caryophyllene Oxide	ND	ND	0.028 / 0.084
Guaiol	ND	ND	0.022 / 0.066
Cedrol	ND	ND	0.029 / 0.086
☑ Bisabolol	ND	ND	0.017 / 0.051

Total Terpene Concentration: 37.221 3.7221

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

Paul Dorenbach

Paul Dorenbach, LQC Verified By
Date: 01/24/2020

Josh Wurzer

Josh Wurzer, President
Date: 01/24/2020



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CERTIFICATE OF ANALYSIS**

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LIMS Sample ID: 200117R003
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Source METRC UID:

Sample Type: Other
Batch Count:
Sample Count:
Unit Volume: 30 Milliliters per Unit
Serving Mass:
Density: 0.9453 g/mL

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Tested for: Terravita CBD

License #:
Address:

Produced by:

License #:
Address:

Pesticide Test Results - Pass

01/24/2020

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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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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