

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

Not Detected²

CANNABINOID PROFILE

Not Detected Total CBD¹

98.1576% 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 ($\Delta^9\text{-THC}$) 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

PASSED

NHS Cbg Isolate

Tested for: ~~Residual Hemp Solutions~~

Address:

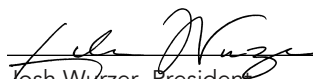
Batch #: 00020

Sample ID: 200416N002

Date Collected: 04/16/2020

Date Received: 04/16/2020

Final Approval


Josh Wurzer, President
Date: 04/20/2020

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: NHS Cbg Isolate

LIMS Sample ID: 200416N002

Batch #: 00020

Source METRC UID:

Sample Type: Other

Batch Count:

Sample Count: 1 Unit(s)

Unit Mass:

Serving Mass:

Density:

Date Collected: 04/16/2020

Date Received: 04/16/2020

Tested for: XXXXXXXXXXXXXXXXXXXX

License #:

Address:

Produced by:

License #:

Address:

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 04/17/2020

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	ND	ND	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBDV	ND	ND	0.021 / 0.063
CBDVa	ND	ND	0.037 / 0.111
CBG	981.576	98.1576	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: 981.576 98.1576

Total THC (Δ9THC+0.877*THCa) ND ND
Total CBD (CBD+0.877*CBDa) ND ND

Action Limit mg

Δ9THC per Unit
Δ9THC per Serving

Batch Photo



Terpene Test Results 04/18/2020

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

	mg/g	%	LOD / LOQ mg/g
<input checked="" type="checkbox"/> Pinene	ND	ND	0.044 / 0.135
Camphene	ND	ND	0.053 / 0.16
Sabinene	ND	ND	0.054 / 0.165
<input checked="" type="checkbox"/> Pinene	ND	ND	0.054 / 0.162
Myrcene	ND	ND	0.054 / 0.164
<input checked="" type="checkbox"/> Phellandrene	ND	ND	0.073 / 0.222
3 Carene	ND	ND	0.057 / 0.174
<input checked="" type="checkbox"/> Terpinene	ND	ND	0.06 / 0.18
Limonene	ND	ND	0.026 / 0.078
Eucalyptol	ND	ND	0.042 / 0.126
Ocimene	ND	ND	0.056 / 0.171
<input checked="" type="checkbox"/> Terpinene	ND	ND	0.06 / 0.181
Sabinene Hydrate	ND	ND	0.036 / 0.108
Fenchone	ND	ND	0.061 / 0.184
Terpinolene	ND	ND	0.045 / 0.135
Linalool	ND	ND	0.038 / 0.116
Fenchol	ND	ND	0.045 / 0.138
(-)-Isopulegol	ND	ND	0.026 / 0.08
Camphor	ND	ND	0.108 / 0.327
Isoborneol	ND	ND	0.066 / 0.201
Borneol	ND	ND	0.097 / 0.293
Menthol	ND	ND	0.044 / 0.135
Terpineol	ND	ND	0.045 / 0.136
Nerol	ND	ND	0.045 / 0.137
R-(+)-Pulegone	ND	ND	0.045 / 0.135
Geraniol	ND	ND	0.033 / 0.1
Geranyl Acetate	ND	ND	0.031 / 0.095
<input checked="" type="checkbox"/> Cedrene	ND	ND	0.034 / 0.102
<input checked="" type="checkbox"/> Caryophyllene	ND	ND	0.036 / 0.108
<input checked="" type="checkbox"/> Humulene	ND	ND	0.025 / 0.076
Valencene	ND	ND	0.015 / 0.046
Nerolidol	ND	ND	0.07 / 0.212
Caryophyllene Oxide	ND	ND	0.055 / 0.167
Guaiol	ND	ND	0.044 / 0.132
Cedrol	ND	ND	0.057 / 0.173
<input checked="" type="checkbox"/> Bisabolol	ND	ND	0.034 / 0.102

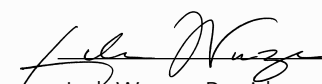
Total Terpene Concentration: ND

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


Josh Wurzer, President
Date: 04/20/2020



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Address:

Produced by:

License #:

Address:

Residual Solvent Test Results - Pass

04/17/2020

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 192.688	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 - Pass

04/19/2020

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	Pass ND	ND
Salmonella spp.	Pass ND	ND
Aspergillus fumigatus	Pass ND	ND
Aspergillus flavus	Pass ND	ND
Aspergillus niger	Pass ND	ND
Aspergillus terreus	Pass ND	ND

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

Water Activity	Results (Aw)	Action Limit Aw
	NT	

Heavy Metal Test Results - Pass

04/16/2020

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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