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[1]

Not Detected[2]

CANNABINOID PROFILE

99.4117% Total CBD[1]

99.9385% Total Cannabinoids[3]

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 = Δ9THC + (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

RESIDUAL SOLVENTS
PASSED

HEAVY METALS
PASSED

Isolate

Tested for: SVG CBD

Address:

Batch #:

Sample ID: 191120G008

Date Collected: 11/20/2019

Date Received: 11/21/2019

Final Approval

Josh Wurzer, President
Date: 11/23/2019

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:	Isolate
LIMS Sample ID:	191120G008
Batch #:	
Source Metrc ID(s):	
Sample Type:	Concentrate, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	
Serving Mass:	
Density:	

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License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 11/23/2019

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	994.117	99.4117	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBDV	5.268	0.5268	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:	**999.385**	**99.9385**	
Total THC (Δ9THC+0.877*THCa)	ND	ND	
Total CBD (CBD+0.877*CBDa)	994.117	99.4117	

Action Limit mg

Δ9THC per Unit
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
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Scan to verify at sclabs.com
Sample must be marked as public to be viewable

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Pesticide Test Results - Pass 11/22/2019

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	0.1	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
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

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Residual Solvent Test Results - Pass 11/23/2019

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	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	70.851	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

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 - Pass 11/22/2019

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	0.2	0.012 / 0.035
Lead	Pass	ND	0.5	0.031 / 0.095
Arsenic	Pass	ND	0.2	0.013 / 0.039
Mercury	Pass	ND	0.1	0.002 / 0.005

Note

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Date: 11/23/2019

 ISO/IES 17025 : 2005 Accredited PJLA Accreditation Number 87168