

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

0.4747%²

CANNABINOID PROFILE

13.4763% Total CBD¹

16.894% 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

MICROBIAL IMPURITIES

PASSED

HEAVY METALS

PASSED

Suzy Q 2nd Cut

Tested for: Green Bee Pharms LLC

Address:

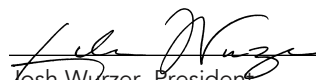
Batch #:

Sample ID: 191106T002

Date Collected: 11/06/2019

Date Received: 11/06/2019

Final Approval


Josh Wurzer, President
Date: 11/14/2019

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

Sample Name: Suzy Q 2nd Cut

LIMS Sample ID: 191106T002

Batch #:

Source Metric ID(s):

Sample Type: Flower, Hemp Flower

Batch Count:

Sample Count:

Unit Mass:

Serving Mass:

Density:

Date Collected: 11/06/2019

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License #:

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Produced by:

License #:

Address:

Moisture Test Results

Moisture	Results (%)
	NT

Cannabinoid Test Results

11/14/2019

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

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.819	0.0819	0.052 / 0.158
Δ8THC	ND	ND	0.074 / 0.224
THCa	4.479	0.4479	0.052 / 0.156
THCV	ND	ND	0.045 / 0.137
THCVa	ND	ND	0.088 / 0.267
CBD	4.718	0.4718	0.059 / 0.180
CBDa	148.284	14.8284	0.052 / 0.156
CBDV	ND	ND	0.027 / 0.080
CBDVa	0.608	0.0608	0.030 / 0.090
CBG	ND	ND	0.048 / 0.144
CBGa	3.031	0.3031	0.034 / 0.102
CBL	ND	ND	0.114 / 0.346
CBN	ND	ND	0.052 / 0.157
CBC	0.563	0.0563	0.048 / 0.146
CBCa	6.438	0.6438	0.233 / 0.705

Sum of Cannabinoids:	168.940	16.894
Total THC (Δ9THC+0.877*THCa)	4.747	0.4747
Total CBD (CBD+0.877*CBDa)	134.763	13.4763

Action Limit mg

Δ9THC per Unit
Δ9THC per Serving

Batch Photo



Terpene Test Results

11/14/2019

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

	mg/g	%	LOD / LOQ mg/g
Pinene	0.938	0.0938	0.028 / 0.084
Camphene	ND	ND	0.038 / 0.116
Sabinene	<LOQ	<LOQ	0.024 / 0.073
Pinene	0.625	0.0625	0.016 / 0.048
Myrcene	11.921	1.1921	0.03 / 0.092
Phellandrene	0.211	0.0211	0.048 / 0.144
3 Carene	0.171	0.0171	0.028 / 0.085
Terpinene	<LOQ	<LOQ	0.051 / 0.155
Limonene	1.03	0.103	0.04 / 0.12
Eucalyptol	ND	ND	0.051 / 0.155
Ocimene	0.84	0.084	0.053 / 0.16
Terpinene	<LOQ	<LOQ	0.038 / 0.114
Sabinene Hydrate	ND	ND	0.046 / 0.138
Fenchone	ND	ND	0.06 / 0.181
Terpinolene	4.526	0.4526	0.042 / 0.128
Linalool	<LOQ	<LOQ	0.043 / 0.13
Fenchol	<LOQ	<LOQ	0.051 / 0.153
(-)-Isopulegol	ND	ND	0.026 / 0.08
Camphor	ND	ND	0.08 / 0.242
Isoborneol	ND	ND	0.028 / 0.085
Borneol	ND	ND	0.063 / 0.19
Menthol	ND	ND	0.043 / 0.129
Terpineol	0.176	0.0176	0.029 / 0.087
Nerol	ND	ND	0.042 / 0.128
R(+)-Pulegone	<LOQ	<LOQ	0.016 / 0.047
Geraniol	ND	ND	0.037 / 0.112
Geranyl Acetate	ND	ND	0.025 / 0.076
Cedrene	ND	ND	0.012 / 0.035
Caryophyllene	1.577	0.1577	0.029 / 0.087
Humulene	0.573	0.0573	0.017 / 0.051
Valencene	<LOQ	<LOQ	0.018 / 0.055
Nerolidol	0.25	0.025	0.05 / 0.15
Caryophyllene Oxide	0.120	0.0120	0.011 / 0.034
Guaiol	0.596	0.0596	0.035 / 0.106
Cedrol	ND	ND	0.022 / 0.066
Bisabolol	0.708	0.0708	0.057 / 0.172

Total Terpene Concentration: 24.262 2.4262

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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Sample must be marked as public to be viewable

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Date: 11/14/2019



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Pesticide Test Results - Pass

11/13/2019

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

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		

Water Activity Test Results

Water Activity	Results (Aw)	Action Limit Aw
	NT	

Heavy Metal Test Results - Pass

11/14/2019

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

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	Pass 0.165	0.2	0.012 / 0.035
Lead	Pass <LOQ	0.5	0.031 / 0.095
Arsenic	Pass ND	0.2	0.013 / 0.039
Mercury	Pass <LOQ	0.1	0.002 / 0.005

Note

Microbiological Test Results - Pass

11/14/2019

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

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