

# HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



## Hemp Analysis - Summary

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

### TOTAL THC<sup>1</sup>

**0.5935%<sup>2</sup>**

### CANNABINOID PROFILE

**16.0171%** Total CBD<sup>1</sup>

**21.5732%** Total Cannabinoids<sup>3</sup>

**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-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**

## Sweet Wife

**Tested for:** Midnight Mfg

**Address:**

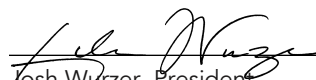
**Batch #:** 191107-MFG

**Sample ID:** 191111N024

**Date Collected:** 11/11/2019

**Date Received:** 11/11/2019

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

Sample Name: Sweet Wife  
LIMS Sample ID: 191111N024  
Batch #: 191107-MFG  
Source Metrc ID(s):  
  
Sample Type: Flower, Inhalable  
Batch Weight:  
Sample Weight:  
Unit Mass:  
Serving Mass:  
Density:

Date Collected: 11/11/2019  
Date Received: 11/11/2019  
Tested for: Midnight Mfg  
  
License #:  
Address:  
  
Produced by:  
  
License #:  
Address:

## Moisture Test Results

11/12/2019

Moisture **Results (%)**  
11.2

## Cannabinoid Test Results

11/13/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)  
Calculated using Dry-Weight

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.366	0.0366	0.052 / 0.158
Δ8THC	ND	ND	0.074 / 0.224
THCa	6.350	0.6350	0.052 / 0.156
THCV	ND	ND	0.045 / 0.137
THCVa	ND	ND	0.088 / 0.267
CBD	2.671	0.2671	0.059 / 0.180
CBDa	179.590	17.9590	0.052 / 0.156
CBDV	ND	ND	0.027 / 0.080
CBDVa	2.378	0.2378	0.030 / 0.090
CBG	0.490	0.0490	0.048 / 0.144
CBGa	6.209	0.6209	0.034 / 0.102
CBL	ND	ND	0.114 / 0.346
CBN	ND	ND	0.052 / 0.157
CBC	0.436	0.0436	0.048 / 0.146
CBCa	17.242	1.7242	0.233 / 0.705

**Sum of Cannabinoids: 215.732 21.5732**

Total THC (Δ9THC+0.877\*THCa) 5.935 0.5935  
Total CBD (CBD+0.877\*CBDa) 160.171 16.0171

Action Limit mg

Δ9THC per Unit  
Δ9THC per Serving

## Batch Photo



## Terpene Test Results

11/13/2019

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

	mg/g	%	LOD / LOQ mg/g
☑ Pinene	0.636	0.0636	0.028 / 0.084
Camphene	ND	ND	0.038 / 0.116
Sabinene	ND	ND	0.024 / 0.073
☑ Pinene	0.314	0.0314	0.016 / 0.048
Myrcene	13.813	1.3813	0.03 / 0.092
☑ Phellandrene	ND	ND	0.048 / 0.144
3 Carene	ND	ND	0.028 / 0.085
☑ Terpinene	ND	ND	0.051 / 0.155
Limonene	0.73	0.073	0.04 / 0.12
Eucalyptol	<LOQ	<LOQ	0.051 / 0.155
Ocimene	0.60	0.060	0.053 / 0.16
☑ Terpinene	ND	ND	0.038 / 0.114
Sabinene Hydrate	ND	ND	0.046 / 0.138
Fenchone	ND	ND	0.06 / 0.181
Terpinolene	ND	ND	0.042 / 0.128
Linalool	0.16	0.016	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	0.099	0.0099	0.029 / 0.087
Nerol	ND	ND	0.042 / 0.128
R-(+)-Pulegone	ND	ND	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	4.212	0.4212	0.029 / 0.087
☑ Humulene	1.153	0.1153	0.017 / 0.051
Valencene	0.069	0.0069	0.018 / 0.055
Nerolidol	<LOQ	<LOQ	0.05 / 0.15
Caryophyllene Oxide	0.237	0.0237	0.011 / 0.034
Guaiol	0.459	0.0459	0.035 / 0.106
Cedrol	ND	ND	0.022 / 0.066
☑ Bisabolol	1.869	0.1869	0.057 / 0.172

**Total Terpene Concentration: 24.351 2.4351**

## 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

Josh Wurzer, President  
Date: 11/14/2019



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Sample Name: Sweet Wife  
LIMS Sample ID: 191111N024  
Batch #: 191107-MFG  
Source Metr ID(s):  
Sample Type: Flower, Inhalable  
Batch Weight:  
Sample Weight:  
Unit Mass:  
Serving Mass:  
Density:

Date Collected: 11/11/2019  
Date Received: 11/11/2019  
Tested for: Midnight Mfg  
License #:  
Address:  
Produced by:  
License #:  
Address:

## Pesticide Test Results - Pass

11/13/2019

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

		Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	Pass	ND	0.1	0.030 / 0.091
Acephate	Pass	ND	0.1	0.013 / 0.039
Acequinocyl	Pass	ND	0.1	0.010 / 0.031
Acetamiprid	Pass	ND	0.1	0.013 / 0.038
Azoxystrobin	Pass	ND	0.1	0.015 / 0.047
Bifenazate	Pass	ND	0.1	0.012 / 0.035
Bifenthrin	Pass	ND	3.0	0.013 / 0.038
Boscalid	Pass	ND	0.1	0.008 / 0.023
Captan	Pass	ND	0.7	0.099 / 0.300
Carbaryl	Pass	ND	0.5	0.014 / 0.043
Chlorantraniliprole	Pass	ND	10.0	0.020 / 0.061
Clofentezine	Pass	ND	0.1	0.009 / 0.027
Cyfluthrin	Pass	ND	2.0	0.099 / 0.299
Cypermethrin	Pass	ND	1.0	0.030 / 0.091
Diazinon	Pass	ND	0.1	0.009 / 0.027
Dimethomorph	Pass	ND	2.0	0.018 / 0.055
Etoxazole	Pass	ND	0.1	0.007 / 0.022
Fenhexamid	Pass	ND	0.1	0.015 / 0.045
Fenpyroximate	Pass	ND	0.1	0.012 / 0.036
Fonicamid	Pass	ND	0.1	0.022 / 0.066
Fludioxonil	Pass	ND	0.1	0.020 / 0.061
Hexythiazox	Pass	ND	0.1	0.009 / 0.027
Imidacloprid	Pass	ND	5.0	0.017 / 0.050
Kresoxim-methyl	Pass	ND	0.1	0.010 / 0.029
Malathion	Pass	ND	0.5	0.006 / 0.019
Metalaxyl	Pass	ND	2.0	0.011 / 0.033
Methomyl	Pass	ND	1.0	0.022 / 0.067
Myclobutanil	Pass	ND	0.1	0.015 / 0.044
Naled	Pass	ND	0.1	0.010 / 0.031
Oxamyl	Pass	ND	0.5	0.014 / 0.042
Pentachloronitrobenzene	Pass	ND	0.1	0.020 / 0.061
Permethrin	Pass	ND	0.5	0.027 / 0.082
Phosmet	Pass	ND	0.1	0.010 / 0.030
Piperonylbutoxide	Pass	ND	3.0	0.007 / 0.020
Prallethrin	Pass	ND	0.1	0.011 / 0.032
Propiconazole	Pass	ND	0.1	0.004 / 0.013
Pyrethrins	Pass	ND	0.5	0.012 / 0.036
Pyridaben	Pass	ND	0.1	0.007 / 0.020
Spinetoram	Pass	ND	0.1	0.006 / 0.017
Spinosad	Pass	ND	0.1	0.010 / 0.031
Spiromesifen	Pass	ND	0.1	0.005 / 0.015
Spirotetramat	Pass	ND	0.1	0.014 / 0.042
Tebuconazole	Pass	ND	0.1	0.006 / 0.018
Thiamethoxam	Pass	ND	5.0	0.011 / 0.033
Trifloxystrobin	Pass	ND	0.1	0.007 / 0.020

## Pesticide Test Results - Pass

11/13/2019

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

		Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	Pass	ND	ND	0.030 / 0.091
Carbofuran	Pass	ND	ND	0.029 / 0.089
Chlordane	Pass	ND	ND	0.032 / 0.097
Chlorfenapyr	Pass	ND	ND	0.030 / 0.090
Chlorpyrifos	Pass	ND	ND	0.029 / 0.089
Coumaphos	Pass	ND	ND	0.029 / 0.089
Daminozide	Pass	ND	ND	0.030 / 0.091
DDVP (Dichlorvos)	Pass	ND	ND	0.029 / 0.089
Dimethoate	Pass	ND	ND	0.029 / 0.089
Ethoprop(hos)	Pass	ND	ND	0.029 / 0.089
Etofenprox	Pass	ND	ND	0.029 / 0.089
Fenoxycarb	Pass	ND	ND	0.029 / 0.089
Fipronil	Pass	ND	ND	0.029 / 0.089
Imazalil	Pass	ND	ND	0.029 / 0.089
Methiocarb	Pass	ND	ND	0.029 / 0.089
Methyl parathion	Pass	ND	ND	0.029 / 0.089
Mevinphos	Pass	ND	ND	0.029 / 0.089
Pacllobutrazol	Pass	ND	ND	0.029 / 0.089
Propoxur	Pass	ND	ND	0.029 / 0.089
Spiroxamine	Pass	ND	ND	0.029 / 0.089
Thiacloprid	Pass	ND	ND	0.029 / 0.089

## 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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Sample Type: Flower, Inhalable

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Sample Weight:

Unit Mass:

Serving Mass:

Density:

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Tested for: Midnight Mfg

License #:

Address:

Produced by:

License #:

Address:

## 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 0.074	0.2	0.012 / 0.035
Lead	Pass <LOQ	0.5	0.031 / 0.095
Arsenic	Pass <LOQ	0.2	0.013 / 0.039
Mercury	Pass ND	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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