

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC¹

3.043%²

CANNABINOID PROFILE

69.2355% Total CBD¹

78.7933% 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.

HEAVY METALS

PASSED

Crude 112619W

Tested for: Deep Relief CBD

Address:


Batch #:

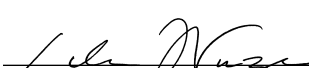
Sample ID: 191226Q013

Date Collected: 12/26/2019

Date Received: 12/26/2019

Final Approval


Anna Brown, QC Verified By
Date: 01/03/2020


Josh Wurzer, President
Date: 01/03/2020

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.



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

Sample Name: Crude 112619W

LIMS Sample ID: 191226Q013

Batch #:

Source Metric ID(s):

Sample Type: Concentrate, Product Inhalable

Batch Count:

Sample Count:

Unit Mass:

Serving Mass:

Density:

Date Collected: 12/26/2019

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License #:

Address:

Produced by:

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Address:

Moisture Test Results

Moisture Results (%)
NT

Cannabinoid Test Results

12/28/2019

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

	mg/g	%	LOD / LOQ mg/g
Δ9THC	30.430	3.0430	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	692.355	69.2355	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBDV	5.058	0.5058	0.021 / 0.063
CBDVa	ND	ND	0.037 / 0.111
CBG	18.618	1.8618	0.03 / 0.092
CBGa	ND	ND	0.044 / 0.133
CBL	0.503	0.0503	0.13 / 0.393
CBN	0.162	0.0162	0.052 / 0.157
CBC	40.807	4.0807	0.031 / 0.094
CBCa	ND	ND	0.129 / 0.392

Sum of Cannabinoids:	787.933	78.7933
Total THC (Δ9THC+0.877*THCa)	30.430	3.043
Total CBD (CBD+0.877*CBDa)	692.355	69.2355

Action Limit mg

Δ9THC per Unit
Δ9THC per Serving

Batch Photo



Terpene Test Results

01/01/2020

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

	mg/g	%	LOD / LOQ mg/g
Pinene	<LOQ	<LOQ	0.044 / 0.135
Camphene	ND	ND	0.053 / 0.16
Sabinene	ND	ND	0.054 / 0.165
Pinene	<LOQ	<LOQ	0.054 / 0.162
Myrcene	1.207	0.1207	0.054 / 0.164
Phellandrene	ND	ND	0.073 / 0.222
3 Carene	ND	ND	0.057 / 0.174
Terpinene	ND	ND	0.06 / 0.18
Limonene	0.510	0.0510	0.026 / 0.078
Eucalyptol	ND	ND	0.042 / 0.126
Ocimene	<LOQ	<LOQ	0.056 / 0.171
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	0.223	0.0223	0.038 / 0.116
Fenchol	0.436	0.0436	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	<LOQ	<LOQ	0.097 / 0.293
Menthol	ND	ND	0.044 / 0.135
Terpineol	0.336	0.0336	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
Cedrene	<LOQ	<LOQ	0.034 / 0.102
Caryophyllene	6.189	0.6189	0.036 / 0.108
Humulene	2.105	0.2105	0.025 / 0.076
Valencene	0.145	0.0145	0.015 / 0.046
Nerolidol	0.312	0.0312	0.07 / 0.212
Caryophyllene Oxide	0.644	0.0644	0.055 / 0.167
Guaiol	0.944	0.0944	0.044 / 0.132
Cedrol	<LOQ	<LOQ	0.057 / 0.173
Bisabolol	1.731	0.1731	0.034 / 0.102

Total Terpene Concentration: 14.782 1.4782

Sample Certification

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Date: 01/03/2020

Josh Wurzer, President
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Pesticide Test Results

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	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Fonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

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	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Padlobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

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

Water Activity	Results (Aw)	Action Limit Aw
	NT	

Heavy Metal Test Results - Pass

01/03/2020

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	0.2	0.012 / 0.035
Lead	Pass 0.118	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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