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

5.862% Total CBD¹5.923% Total Cannabinoids³Terpenes See page 2







- 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 = Δ 9THC + (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 SOLVENTS
PASSED

MICROBIAL IMPURITIES

PASSED

pawcbd Tincture 30 mL Canine Natural 1500 mg

Tested for: Paw CBD Sample ID: 191206R019

Address: Date Collected: 12/06/2019

Date Received: 12/06/2019

Batch #: 90412P6N

Final Approval

Josh Wurzer, President
Date: 12/10/2019

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.



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

Sample Name: pawcbd Tincture 30 mL Canine Natural 1500

mg

191206R019 LIMS Sample ID: 90412P6N Batch #:

Source Metrc ID(s):

Sample Type: Other

Batch Count: Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

0.9385 g/mL Density:

Date Received: 12/06/2019 Tested for: Paw CBD License #: Address: Produced by: License #: Address:

Terpene Test Results

Date Collected:

12/10/2019

Moisture Test Results

Results (%)

Cannabinoid Test Results

12/09/2019

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

,		mg/mL	%	LOD / LOQ mg/mL
Δ9ΤΗС		ND	ND	0.0009 / 0.003
Δ8THC		ND	ND	0.0009 / 0.003
THCa		ND	ND	0.0009 / 0.003
THCV		ND	ND	0.0004 / 0.001
THCVa		ND	ND	0.0013 / 0.004
CBD		55.015	5.8620	0.0009 / 0.003
CBDa		ND	ND	0.0009 / 0.003
CBDV		0.134	0.0143	0.0004 / 0.001
CBDVa		ND	ND	0.0003 / 0.001
CBG		0.314	0.0335	0.001 / 0.003
CBGa		ND	ND	0.0008 / 0.002
CBL		ND	ND	0.0021 / 0.006
CBN		0.124	0.0132	0.0009 / 0.003
CBC		ND	ND	0.0011 / 0.003
CBCa		ND	ND	0.0015 / 0.005
Sum of Cannabinoi	ds:	55.587	5.923 1667	7.610 mg/Unit

Total THC (Δ9THC+0.877*THCa) Total CBD (CBD+0.877*CBDa) ND ND 55.015 5.862 1650.450 mg/Unit

Action Limit mg

Δ9THC per Unit Δ9THC per Serving

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

12/06/2019

	mg/g	%	LOD / LOQ mg/g
2 Pinene	ND	ND	0.022 / 0.067
Camphene	ND	ND	0.027 / 0.08
Sabinene	ND	ND	0.027 / 0.082
2 Pinene	ND	ND	0.027 / 0.081
Myrcene	ND	ND	0.027 / 0.082
2 Phellandrene	ND	ND	0.037 / 0.111
3 Carene	ND	ND	0.029 / 0.087
2 Terpinene	ND	ND	0.03 / 0.09
Limonene	0.634	0.0634	0.013 / 0.039
Eucalyptol	ND	ND	0.021 / 0.063
Ocimene	ND	ND	0.028 / 0.085
2 Terpinene	ND	ND	0.03 / 0.09
Sabinene Hydrate	ND	ND	0.018 / 0.054
Fenchone	ND	ND	0.03 / 0.092
Terpinolene	ND	ND	0.022 / 0.067
Linalool	ND	ND	0.019 / 0.058
Fenchol	ND	ND	0.023 / 0.069
(-)-Isopulegol	ND	ND	0.013 / 0.04
Camphor	ND	ND	0.054 / 0.163
Isoborneol	ND	ND	0.033 / 0.101
Borneol	ND	ND	0.048 / 0.146
Menthol	ND	ND	0.022 / 0.067
Terpineol	ND	ND	0.022 / 0.068
Nerol	ND	ND	0.023 / 0.068
R-(+)-Pulegone	ND	ND	0.022 / 0.068
Geraniol	ND	ND	0.017 / 0.05
Geranyl Acetate 2 Cedrene	ND ND	ND ND	0.016 / 0.048 0.017 / 0.051
Cedrene Caryophyllene	ND ND	ND ND	0.017 / 0.051
Humulene	ND ND	ND	0.013 / 0.034
Valencene	ND ND	ND	0.013 / 0.038
Nerolidol	ND	ND	0.035 / 0.106
Caryophyllene Oxide	ND	ND	0.028 / 0.084
Guaiol	ND	ND	0.020 / 0.064
Cedrol	ND	ND	0.029 / 0.086
2 Bisabolol	ND	ND	0.017 / 0.051
2 2.002 0.0.			3.3.7 0.001

Total Terpene Concentration: 0.0634 0.634

Batch Photo





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: 12/10/2019



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

Sample Name: pawcbd Tincture 30 mL Canine Natural 1500

mg

LIMS Sample ID: 191206R019 Batch #: 90412P6N

Source Metrc ID(s):

Sample Type: Other

Batch Count: Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

Density: 0.9385 g/mL

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing

HPLC-Mass Spectrometry and GC-Mass Spectrometry				
HPLC-Iviass Spectr	ometry and GC-iviass spe (Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g	
	NT		·	
Hexythiazox				
Kresoxim-methyl				
Malathion				
Metalaxyl				
Methomyl				
Myclobutanil				
Naled				
Oxamyl				
	NT			
Phosmet	NT			
	NT			
	NT			
	NT			

Date Collected:	12/06/2019	
Date Received:	12/06/2019	
Tested for:	Paw CBD	
License #:		
Address:		
Produced by:		
License #:		
Address:		

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
	NT		
DDVP (Dichlorvos)	NT		
	NT		
Methiocarb	NT		
Mevinphos	NT		
	NT		
	NT		
Spiroxamine	NT		
	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry
Results (μg/kg) Action Limit μg/kg
LOD / LOQ μg/kg

chratoxin A

NIT

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Josh Wurzer, President Date: 12/10/2019



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Sample Name: pawcbd Tincture 30 mL Canine Natural 1500

mq

LIMS Sample ID: 191206R019 90412P6N Batch #:

Source Metrc ID(s):

Sample Type: Other

Batch Count: Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

0.9385 g/mL Density:

Date Collected:	12/06/2019	
Date Received:	12/06/2019	
Tested for:	Paw CBD	
License #:		
Address:		
Produced by:		
License #:		
Address:		

Water Activity Test Results

Results (Aw) **Action Limit Aw**

Heavy Metal Test Results

Note

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

, , , ,	Results (μg/g)	Action Limit µg/g	LOD / LOQ µg/g
	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Residual Solvent Test Results - Pass

12/08/2019

Residual Solvent analysis utilizing Gas Chromatography - Mass

Spectrometry (GC - MS) Results (µg/g) LOD / LOQ µg/g Action Limit µg/g Pass 5000.0 Acetone ND 14.703 / 44.549 Acetonitrile Pass ND 410.0 2.727 / 8.262 Butane Pass ND 5000.0 5.672 / 17.185 11.775 / <mark>35</mark>.679 Ethanol Pass ND 5000.0 16.227 / 49.169 Ethyl acetate Pass ND 5000.0 Ethyl ether Pass ND 5000.0 11.608 / 35.172 Heptane Pass ND5000.0 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 ND 5000.0 12.355 / 37.434 Pentane Pass 5000.0 1.359 / 4.117 Propane Pass ND

890.0

2170.0

Microbiological Test Results - Pass

Pass

Pass

12/09/2019

7.174 / 21.736

34.438 / 104.347

PCR and fluorescence detection of microbiological impurities

ND

Action Limit Results Shiga toxin-producing Escherichia coli Pass ND ND ND ND Salmonella spp. Pass

3M Petrifilm and plate counts for microbiological contamination Results (cfu/q)

Foreign Material Test Results

Toluene

Total Xylenes

Sample Certification

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