HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS



Hemp Analysis - Summary

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

TOTAL THC1

0.1401%²

CANNABINOID PROFILE

- 4.3884% Total CBD1
- 4.7859% 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 = 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 PESTICIDES

PASSED

HEAVY METALS

PASSED

RESIDUAL SOLVENTS

PASSED

MICROBIAL IMPURITIES

PASSED

200122-1200

Tested for:

New York Hemp Oil

Sample ID:

200130S008

Address:

Date Collected:

01/30/2020

Date Received:

01/30/2020

Batch #:

Final Approval

Josh Wurzer, President Date: 02/03/2020 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.



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

Sample Name: 200122-1200

LIMS Sample ID: 200130S008

Batch #:

Source METRC UID:

Sample Type: Other

Batch Count: Sample Count: Unit Mass:

Serving Mass:

Density: 0.936 g/mL

Date Received: 01/30/2020
Tested for: New York Hemp Oil
License #:
Address:
Produced by:
License #:
Address:

Terpene Test Results

Date Collected:

02/03/2020

Moisture Test Results

Results (%)
Moisture NT

Cannabinoid Test Results

02/02/2020

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

Δ9ΤΗC	mg/g 1.401	% 0.1401	LOD / LOQ mg/g 0.0009 / 0.003
Δ8ΤΗС	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	43.534	4.3534	0.0009 / 0.003
CBDa	0.399	0.0399	0.0009 / 0.003
CBDV	0.198	0.0198	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	0.866	0.0866	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	0.036	0.0036	0.0021 / 0.006
CBN	0.009	0.0009	0.0009 / 0.003
CBC	1.416	0.1416	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Command Commandate at all a	47.050	4 7050	

CBCa		ND	ND	0.0015 / 0.005
Sum of Cannabi	noids:	47.859	4.7859	
Total THC (Δ9TH Total CBD (CBD+		1.401 43.884	0.1401 4.3884	

Action Limit mg

Δ9THC per Unit Δ9THC per Serving

PTHC per Unit

Batch Photo

Terpene analysis utilizing Gas Chromatography - Flame Ionization

01/30/2020

Detection (GC - FID)

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	ND	ND	0.013 / 0.039
Eucalyptol	ND	ND	0.021 / 0.063
Ocimene	ND	ND	0.028 / 0.085
Terpinene Terpinen	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	<loq< td=""><td><loq< td=""><td>0.022 / 0.068</td></loq<></td></loq<>	<loq< td=""><td>0.022 / 0.068</td></loq<>	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	ND	ND	0.016 / 0.048
2 Cedrene	ND	ND	0.017 / 0.051
② Caryophyllene	0.483	0.0483	0.018 / 0.054
2 Humulene	0.150	0.0150	0.013 / 0.038
Valencene	ND	ND	0.008 / 0.023
Nerolidol	ND	ND	0.035 / 0.106
Caryophyllene Oxide	<loq< td=""><td><loq< td=""><td>0.028 / 0.084</td></loq<></td></loq<>	<loq< td=""><td>0.028 / 0.084</td></loq<>	0.028 / 0.084
Guaiol	0.200	0.0200	0.022 / 0.066
Cedrol	ND	ND	0.029 / 0.086
2 Bisabolol	0.358	0.0358	0.017 / 0.051

Total Terpene Concentration: 1.191 0.1191

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 Name: 200122-1200

LIMS Sample ID: 200130S008

Batch #:

Source METRC UID:

Sample Type: Other

Batch Count: Sample Count: Unit Mass: Serving Mass:

Trifloxystrobin

Density: 0.936 g/mL

Pesticide Test Results - Pass

Pesticide Test Results - Pass

Date Collected:

Date Received:

Tested for:

License #:
Address:

Produced by:

License #:

Address:

01/31/2020

LOD / LOQ µg/kg

01/31/2020

Pesticide 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	0.3	0.030 / 0.091
Acephate	Pass	ND	5.0	0.013 / 0.039
Acequinocyl	Pass	ND	4.0	0.010 / 0.031
Acetamiprid	Pass	ND	5.0	0.013 / 0.038
Azoxystrobin	Pass	ND	40.0	0.015 / 0.047
Bifenazate	Pass	ND	5.0	0.012 / 0.035
Bifenthrin	Pass	ND	0.5	0.013 / 0.038
Boscalid	Pass	ND	10.0	0.008 / 0.023
Captan	Pass	ND	5.0	0.099 / 0.300
Carbaryl	Pass	ND	0.5	0.014 / 0.043
Chlorantraniliprole	Pass	ND	40.0	0.020 / 0.061
Clofentezine	Pass	ND	0.5	0.009 / 0.027
Cyfluthrin	Pass	ND	1.0	0.099 / 0.299
Cypermethrin	Pass	ND	1.0	0.030 / 0.091
Diazinon	Pass	ND	0.2	0.009 / 0.027
Dimethomorph	Pass	ND	20.0	0.018 / 0.055
Etoxazole	Pass	ND	1.5	0.007 / 0.022
Fenhexamid	Pass	ND	10.0	0.015 / 0.045
Fenpyroximate	Pass	ND	2.0	0.012 / 0.036
Flonicamid	Pass	ND	2.0	0.022 / 0.066
Fludioxonil	Pass	ND	30.0	0.020 / 0.061
Hexythiazox	Pass	ND	2.0	0.009 / 0.027
Imidacloprid	Pass	ND	3.0	0.017 / 0.050
Kresoxim-methyl	Pass	ND	1.0	0.010 / 0.029
Malathion	Pass	ND	5.0	0.006 / 0.019
Metalaxyl	Pass	ND	15.0	0.011 / 0.033
Methomyl	Pass	ND	0.1	0.022 / 0.067
Myclobutanil	Pass	ND	9.0	0.015 / 0.044
Naled	Pass	ND	0.5	0.010 / 0.031
Oxamyl	Pass	ND	0.2	0.014 / 0.042
Pentachloronitrobenz		ND	0.2	0.020 / 0.061
Permethrin	Pass	ND	20.0	0.027 / 0.082
Phosmet	Pass	ND	0.2	0.010 / 0.030
Piperonylbutoxide	Pass	ND	8.0	0.007 / 0.020
Prallethrin	Pass	ND	0.4	0.011 / 0.032
Propiconazole	Pass	ND	20.0	0.004 / 0.013
Pyrethrins	Pass	ND	1.0	0.012 / 0.036
Pyridaben	Pass	ND	3.0	0.007 / 0.020
Spinetoram	Pass	ND	3.0	0.006 / 0.017
Spinosad	Pass	ND	3.0	0.010 / 0.031
Spiromesifen	Pass	ND	12.0	0.005 / 0.015
Spirotetramat	Pass	ND	13.0	0.014 / 0.042
Tebuconazole	Pass	ND	2.0	0.006 / 0.018
Thiamethoxam	Pass	ND	4.5	0.011 / 0.033

ND

Pesticide and plant growth regulator analysis utilizing HPLC-Mass

01/30/2020

01/30/2020

New York Hemp Oil

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
Paclobutrazol	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

Ochratovin A

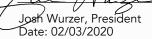
NT

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
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0.007 / 0.020

30.0



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Sample Name: 200122-1200

LIMS Sample ID: 200130S008

Batch #:

Source METRC UID:

Sample Type: Other

Batch Count:
Sample Count:
Unit Mass:
Serving Mass:

Density: 0.936 g/mL

Residual Solvent Test Results - Pass

Date Received: 01/30/2020

Tested for: New York Hemp Oil

License #:
Address:

Produced by:

License #:
Address:

Water Activity Test Results

Date Collected:

Results (Aw) Action Limit Aw
Nater Activity

01/30/2020

02/01/2020

02/01/2020

Residual Solvent analysis utilizing Gas Chromatography - Mass

Spectrometry (GC - MS)						
		Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g		
1,2-Dichloroethane	Pass	ND	1.0	0.111 / 0.336		
Benzene	Pass	ND	1.0	0.043 / 0.132		
Chloroform	Pass	ND	1.0	0.064 / 0.195		
Ethylene Oxide	Pass	ND	1.0	0.136 / 0.413		
Methylene chloride	Pass	ND	1.0	0.172 / 0.521		
Trichloroethylene	Pass	ND	1.0	0.040 / 0.120		
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 / <mark>35</mark> .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	ND	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		

Heavy Metal Test Results - Pass

02/01/2020

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	0.5	0.012 / 0.035
Lead	Pass	<loq< td=""><td>0.5</td><td>0.031 / 0.095</td></loq<>	0.5	0.031 / 0.095
Arsenic	Pass	ND	1.5	0.013 / 0.039
Mercury	Pass	ND	3.0	0.002 / 0.005

Note

Microbiological Test Results - Pass

PCR and fluorescence detection of microbiological impurities

rek and hubrescence detection of microbiological impunities					
	ū	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/q)

erobic Plate Count

NT

Otal Yearst and Mold

Foreign Material Test Results

NIT

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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