

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

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



Scan to verify

TOTAL THC¹

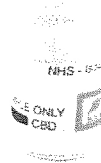
Not Detected²

CANNABINOID PROFILE

99.2593% Total CBD¹

99.4612% Total Cannabinoids³

Terpenes Not Tested



- 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

RESIDUAL SOLVENTS

PASSED

HEAVY METALS

PASSED

Isolate

Tested for: Natural Hemp Solutions

Sample ID: 200327M014

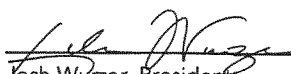
Address:

Date Collected: 03/27/2020

Batch #: IS003232000-01

Date Received: 03/27/2020

Final Approval


Josh Wurzer, President
Date: 03/29/2020

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.

HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS

Sample Name: Isolate
LIMS Sample ID: 200327M014
Batch #:
Source METRC UID:

Sample Type: Concentrate, Product Inhalable
Batch Count:
Sample Count:
Unit Mass:
Serving Mass:
Density:

Date Collected: 03/27/2020
Date Received: 03/27/2020
Tested for: Natural Hemp Solutions

License #:
Address:

Produced by:

License #:
Address:

Moisture Test Results

Results (%)

Cannabinoid Test Results

03/28/2020

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

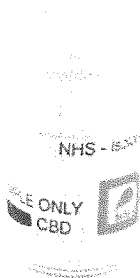
	mg/g	%	LOD / LOQ mg/g
Δ9THC	ND	ND	0.052 / 0.158
Δ8THC	ND	ND	0.053 / 0.162
THCa	ND	ND	0.052 / 0.156
THCV	ND	ND	0.023 / 0.069
THCVa	ND	ND	0.091 / 0.276
CBD	992.593	99.2593	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBDV	2.019	0.2019	0.021 / 0.063
CBDVa	ND	ND	0.037 / 0.111
CBG	ND	ND	0.03 / 0.092
CBGa	ND	ND	0.044 / 0.133
CBL	ND	ND	0.13 / 0.393
CBN	ND	ND	0.052 / 0.157
CBC	ND	ND	0.031 / 0.094
CBCa	ND	ND	0.129 / 0.392

Sum of Cannabinoids:	994.612	99.4612
Total THC (Δ9THC+0.877*THCa)	ND	ND
Total CBD (CBD+0.877*CBDa)	992.593	99.2593

Action Limit mg

Δ9THC per Unit
 Δ9THC per Serving

Batch Photo



Terpene Test Results

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

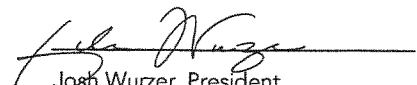
mg/g % LOD / LOQ mg/g

Terpene	mg/g	%	LOD / LOQ mg/g
α-Pinene	ND	ND	0.052 / 0.158
β-Pinene	ND	ND	0.053 / 0.162
Δ-Caryophyllene	ND	ND	0.052 / 0.156
γ-Terpinene	ND	ND	0.023 / 0.069
Limonene	ND	ND	0.091 / 0.276
Myrcene	ND	ND	0.052 / 0.158
β-Caryophyllene	ND	ND	0.052 / 0.156
β-Bisabolene	ND	ND	0.021 / 0.063
α-Terpinolene	ND	ND	0.037 / 0.111
α-Terpinene	ND	ND	0.03 / 0.092
β-Terpinene	ND	ND	0.044 / 0.133
γ-Terpinolene	ND	ND	0.13 / 0.393
β-Caryophyllene	ND	ND	0.052 / 0.157
β-Caryophyllene	ND	ND	0.031 / 0.094
β-Caryophyllene	ND	ND	0.129 / 0.392

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.




 Josh Wurzer, President
 Date: 03/29/2020

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 Source METRC UID:
 Sample Type: Concentrate, Product Inhalable
 Batch Count:
 Sample Count:
 Unit Mass:
 Serving Mass:
 Density:

Date Collected: 03/27/2020
 Date Received: 03/27/2020
 Tested for: Natural Hemp Solutions
 License #:
 Address:
 Produced by:
 License #:
 Address:

Pesticide Test Results - Pass

03/28/2020

Pesticide Test Results - Pass

03/28/2020

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

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	0.1	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
Flonicamid	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

	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
Paclbutrazol	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
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Josh Wurzer
 Josh Wurzer, President
 Date: 03/29/2020

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Sample Name: Isolate
LIMS Sample ID: 200327M014
Batch #:
Source METRC UID:

Sample Type: Concentrate, Product Inhalable
Batch Count:
Sample Count:
Unit Mass:
Serving Mass:
Density:

Date Collected: 03/27/2020
Date Received: 03/27/2020
Tested for: Natural Hemp Solutions

License #:
Address:

Produced by:

License #:
Address:

Water Activity Test Results

Residual Solvent Test Results - Pass

03/29/2020

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 / 35.679
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 904.318	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

03/28/2020

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 ND	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

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

Results Action Limit

3M Petrifilm and plate counts for microbiological contamination

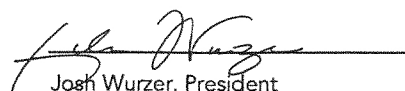
Results (cfu/g)

Foreign Material Test Results

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 Date: 03/29/2020