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

Not Detected Total CBD¹ 98.1576% 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

NHS Cbg Isolate

Tested for:

Sample ID:

200416N002

Address:

Batch #:

Date Collected:

04/16/2020

Date Received:

04/16/2020

00020

Final Approval

Josh Wurzer, President Date: 04/20/2020 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: NHS Cbg Isolate

LIMS Sample ID: 200416N002

Batch #: 00020

Source METRC UID:

Sample Type: Other

Batch Count:

Sample Count: 1 Unit(s)

Unit Mass: Serving Mass: Density:

Moisture Test Results

Results (%)
Moisture NT

Cannabinoid Test Results

04/17/2020

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

	mg/g	%	LOD / LOQ mg/g
Δ9ΤΗС	ND	ND	0.052 / 0.158
Δ8ΤΗС	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	ND	ND	0.052 / 0.158
CBDa	ND	ND	0.052 / 0.156
CBDV	ND	ND	0.021 / 0.063
CBDVa	ND	ND	0.037 / 0.111
CBG	981.576	98.1576	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 Cannabinoid	s: 981.576	98.1576	

Total THC (Δ9THC+0.877*THCa) ND ND Total CBD (CBD+0.877*CBDa) ND ND

Action Limit mg

Δ9THC per Unit Δ9THC per Serving

Batch Photo



Date Collected: 04/16/2020

Date Received: 04/16/2020

Tested for:

License #:

Address:

Produced by:

License #:

Address:

Terpene Test Results

04/18/2020

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

Detection (GG 11D)	mg/g	%	LOD / LOQ mg/g
Pinene	ND	ND	0.044 / 0.135
Camphene	ND	ND	0.053 / 0.16
Sabinene	ND	ND	0.054 / 0.165
Pinene	ND	ND	0.054 / 0.162
Myrcene	ND	ND	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	ND	ND	0.026 / 0.078
Eucalyptol	ND	ND	0.042 / 0.126
Ocimene	ND	ND	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	ND	ND	0.038 / 0.116
Fenchol	ND	ND	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	ND	ND	0.097 / 0.293
Menthol	ND	ND	0.044 / 0.135
Terpineol	ND	ND	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	ND	ND	0.034 / 0.102
Caryophyllene	ND	ND	0.036 / 0.108
Humulene	ND	ND	0.025 / 0.076
Valencene	ND	ND	0.015 / 0.046
Nerolidol	ND	ND	0.07 / 0.212
Caryophyllene Oxide	ND	ND	0.055 / 0.167
Guaiol	ND	ND	0.044 / 0.132
Cedrol	ND	ND	0.057 / 0.173
Bisabolol	ND	ND	0.034 / 0.102

Total Terpene Concentration: 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.



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Josh Wurzer, President Date: 04/20/2020

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Sample Name: NHS Cbg Isolate

LIMS Sample ID: 200416N002

Batch #: 00020

Source METRC UID:

Sample Type: Other

Batch Count:

Sample Count: 1 Unit(s)

Unit Mass: Serving Mass: Density:

Pesticide Test Results - Pass

04/20/2020

LOD / LOQ µg/g

Action Limit µg/g

Pesticide and plant growth regulator analysis utilizing HPLC-Mass

Spectrometry and GC-Mass Spectrometry Results (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
Pentachloronitrobenze		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	0.064	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
Trifloxystrobin	Pass	ND	30.0	0.007 / 0.020

1	Date Collected:	04/16/2020
	Date Received:	04/16/2020
	Tested for:	
	License #:	
	Address:	
	Produced by:	
	License #:	
l	Address:	

Pesticide Test Results - Pass

04/20/2020

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
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

LOD / LOQ µg/kg

Sample Certification

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Josh Wurzer, President Date: 04/20/2020



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Sample Name: NHS Cbg Isolate

LIMS Sample ID: 200416N002

Batch #: 00020

Source METRC UID:

Sample Type: Other

Batch Count:

Sample Count: 1 Unit(s)

Unit Mass: Serving Mass: Density:

Residual Solvent Test Results - Pass

04/17/2020

Residual Solvent analysis utilizing Gas Chromatography - Mass

Spectrometry (GC - MS)

1 7 1	•	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	192.688	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

Microbiological Test Results - Pass

04/19/2020

PCR and fluorescence detection of microbiological impurities

1 Cit and hadrescence detection of microbiological impunities					
		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)

NT

Fotal Veast and Mold

Foreign Material Test Results

NIT

Date Collected: 04/16/2020

Date Received: 04/16/2020

Tested for:

License #:
Address:

Produced by:

License #:

Address:

Water Activity Test Results

Results (Aw) Action Limit Aw

Heavy Metal Test Results - Pass

04/16/2020

Heavy metal analysis utilizing Inductively Coupled Plasma Mass

Spectrometry (ICP-MS)

Specificine if y) IVIO)			
•		Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	Pass	ND	0.5	0.012 / 0.035
Lead	Pass	ND	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

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