

Hemp Analysis - Summary

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

TOTAL THC¹



CANNABINOID PROFILE

99.216% Total CBD¹
99.4388% Total Cannabinoids³
Terpenes Not Tested





Scan to verify at sclabs.com

sclabs
SCICIOS

 Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
 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

RESIDUAL SOLVENTS PASSED

HEAVY METALS PASSED

CBD Isolate

Final Approval

Date: 04/15/2020

 Tested for:
 Natural Hemp Solutions
 Sample ID:

 Address:
 Date Collected

 Sample ID:
 200410S001

 Date Collected:
 04/10/2020

 Date Received:
 04/10/2020

Batch #: NHS-ISO-8242

Paul Dorenbach, LQC Verified By

	\mathcal{M}	
1 ila	/// max	
Vach MA		
Josh Wurzer,	President	

Date: 04/15/2020

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 © 2020 SC Labs all rights reserved. MKT0002 REV2 10/19 ISO/IES 17025 : 2005 Accredited PJLA Accreditation Number 87168



Sample Name:	CBD Isolate
LIMS Sample ID:	2004105001
Batch #:	NHS-ISO-8242
Source METRC UID	:
Sample Type:	Concentrate, Product Inhalable
Batch Count:	
Sample Count:	5 Unit(s)
Unit Mass:	
Serving Mass:	
Density:	

Moisture Test Results

Results (%)

Cannabinoid Test Results

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

Δ9THC Δ8THC THCa THCV THCV	mg/g ND ND ND ND ND	% ND ND ND ND	LOD / LOQ mg/g 0.052 / 0.158 0.053 / 0.162 0.052 / 0.156 0.023 / 0.069 0.091 / 0.276
CBD CBDa CBDV CBDV CBDVa CBG	992.160 ND 2.228 ND ND	99.2160 ND 0.2228 ND ND	0.052 / 0.158 0.052 / 0.156 0.021 / 0.063 0.037 / 0.111 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:	994.388	99.4388	
Total THC (Δ9THC+0.877*THCa)	ND	ND	
Total CBD (CBD+0.877*CBDa)	992.160	99.216	

992.160 Action Limit mg

 Δ 9THC per Unit Δ 9THC per Serving

Batch Photo







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. Q

Paul Dorenbach, LQC Verified By Date: 04/15/2020

Date: 04/15/2020

Josh Wurzer, President

04/11/2020

Date Collected:

Date Received:

Tested for:

License #: Address:

Produced by: License #: Address:

Terpene Test Results	
Terpene analysis utilizing Gas Chromatogram	ohv - F

04/10/2020

04/10/2020

Natural Hemp Solutions

Flame Ionization Detection (GC - FID)

SC Laboratories, LLC

Santa Cruz, CA 95060 (866) 435-0709 | sclabs.com

100 Pioneer Street, Suite E

	mg/g	%	LOD / LOQ mg/g
	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
	NT		
Myrcene	NT		
Fenchol	NT		
	NT		
Caryophyllene Oxide	NT		
	NT		
	NT		
R-(+)-Pulegone			
Geranyl Acetate			
Citronellol			
Phytol			
Total Tarnana Concentrations			

Sample Certification

© 2020 SC Labs all rights reserved. MKT0002 REV2 10/19 ISO/IES 17025 : 2005 Accredited PJLA Accreditation Number 87168



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

Sample Name:	CBD Isolate
LIMS Sample ID:	2004105001
Batch #:	NHS-ISO-8242
Source METRC UID):
Sample Type: Batch Count:	Concentrate, Product Inhalable
Sample Count:	5 Unit(s)
Unit Mass:	
Serving Mass:	
Density:	

Date Collected: 04/10/2020 Date Received: 04/10/2020 Tested for: Natural Hemp Solutions License #: Address: Produced by: License #: Address: Address:

Pesticide Test Results - Pass

04/15/2020

Pesticide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

opecation		Results (µg/g)	Action Limit µg/g	Reporting Limit µg/g
Azoxystrobin	Pass	ND	0.1	0.047
Etoxazole	Pass	ND	0.1	0.022
Abamectin	Pass	ND	0.1	0.091
Cypermethrin	Pass	ND	1.0	0.091
Imidacloprid	Pass	ND	5.0	0.050
Tebuconazole	Pass	ND	0.1	0.018
Hexythiazox	Pass	ND	0.1	0.027
Trifloxystrobin	Pass	ND	0.1	0.020
Spiromesifen	Pass	ND	0.1	0.015
Chlorpyrifos	Pass	ND	ND	0.089
Bifenazate	Pass	ND	0.1	0.035
Boscalid	Pass	ND	0.1	0.023
Propiconazole	Pass	ND	0.1	0.013
Malathion	Pass	ND	0.5	0.019
Permethrin	Pass	ND	0.5	0.082
Myclobutanil	Pass	ND	0.1	0.044
Bifenthrin	Pass	ND	3.0	0.038
Piperonylbutoxide	Pass	ND	3.0	0.020

Mycotoxin Test Results

Mycotoxin analysis utilizing HP	trometry Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2		
Ochratoxin A		

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.



Kand

Paul Dorenbach, LQC Verified By Date: 04/15/2020

Josh Wurzer, President Date: 04/15/2020

Scan to verify at sclabs.com Sample must be marked as public to be viewable

© 2020 SC Labs all rights reserved. MKT0002 REV2 10/19 ISO/IES 17025 : 2005 Accredited PJLA Accreditation Number 87168

CoA ID: 200410S001-001 Page 3 of 4



Sample Name:	CBD Isolate
LIMS Sample ID:	200410S001
Batch #:	NHS-ISO-8242
Source METRC UIE	D:
Sample Type:	Concentrate, Product Inhalable
Batch Count:	
Sample Count:	5 Unit(s)
Unit Mass:	
Serving Mass:	
Density:	

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

Date Collected:	04/10/2020	
Date Received:	04/10/2020	
Tested for:	Natural Hemp Solutions	
License #:		
Address:		
Produced by:		
License #:		
Address:		

Water Activity Test Results

Residual Solve	04/12/2020				
Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)					
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 / <mark>44</mark> .549	
Acetonitrile	Pass	ND	410.0	2.727 / 8 <mark>.2</mark> 62	
Butane	Pass	ND	5000.0	5.672 / 1 <mark>7.</mark> 185	
Ethanol	Pass	ND	5000.0	11.775 / 35.679	
Ethyl acetate	Pass	ND	5000.0	16.227 / <mark>49</mark> .169	
Ethyl ether	Pass	ND	5000.0	11.608 / <mark>35</mark> .172	
Heptane	Pass	ND	5000.0	12.982 / <mark>39</mark> .336	
Hexane	Pass	ND	290.0	1.816 / 5 <mark>.5</mark> 02	
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	

Microbiological Test Results

PCR and fluorescence detection of microb	Results	Action Limit	
Shiga toxin-producing Escherichia coli	NT		
Aspergillus fumigatus			
3M Petrifilm and plate counts for microbic	ological contamina Results (cfu/		
A sus late Dista Count			

Foreign Material Test Results

04/11/2020 Heavy Metal Test Results - Pass Heavy metal analysis utilizing Inductively Coupled Plasma Mass S

Results (Aw)

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

Action Limit Aw

Note

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.



an

Paul Dorenbach, LQC Verified By Date: 04/15/2020

Scan to verify at sclabs.com Sample must be marked as public to be viewable

Josh Wurzer, President Date: 04/15/2020