

Hemp Analysis - Summary

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

TOTAL THC1



CANNABINOID PROFILE

Not Detected Total CBD¹ 98.6995% 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 = 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

RESIDUAL SOLVENTS PASSED

HEAVY METALS PASSED

MICROBIAL IMPURITIES PASSED

CBG-ISO-G03

Tested for: Big Sky Scientific

Address:

Sample ID:	2001185002
Date Collected:	01/18/2020
Date Received:	01/18/2020

Batch #:

Final Approval

Danielle Deschene, LQC Verified By Date: 01/22/2020

osh Wurzer, Presiden Date: 01/22/2020

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.

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CoA ID: 200118S002-002 Page 1 of 4



Sa	ample Name:	CBG-ISO-G03	
LI	IMS Sample ID:	2001185002	
B	atch #:		
So	ource METRC UID:	:	
c.		Other	
30	ample Type:	Other	
B	atch Count:		
Sa	ample Count:		
U	nit Mass:		
Se	erving Mass:		
D	ensity:		

Moisture Test Results

Cannabinoid Test Results

Results (%)

01/22/2020

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

(111 LC, C231 3-4-4)	+-4)			
Δ9ΤΗC		mg/g ND	% ND	LOD / LOQ mg/g 0.052 / 0.158
Δ9THC Δ8THC		ND	ND	0.052 / 0.158
THCa		ND	ND	0.052 / 0.156
THCV		ND	ND	0.023 / 0.069
THCVa		ND	ND	0.091 / 0 <mark>.2</mark> 76
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		986.995	98.6995	0.030 / 0.092
CBGa		ND	ND	0.044 / 0.133
CBL		ND	ND	0.130 / 0.393
CBN		ND	ND	0.052 / 0.157
CBC		ND	ND	0.031 / 0.094
CBCa		ND	ND	0 1 0 0 1 0 0 0 0
0000		ND	ND	0.129 / 0.392
Sum of Cannabi	noids:	986.995	98.6995	0.12970.392
	C+0.877*THCa)			0.12970.392

ND Action Limit mg

 Δ 9THC per Unit Δ 9THC per Serving

Batch Photo



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License #:	
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License #:	
Address:	

Terpene Test Results

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

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

Total Terpene Concentration:

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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Danielle Deschene, LQC Verified By Date: 01/22/2020

Josh Wurzer, President Date: 01/22/2020

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CoA ID: 200118S002-002 Page 2 of 4



Sample Name:	CBG-ISO-G03	
LIMS Sample ID:	2001185002	
Batch #:		
Source METRC UI	D:	
Sample Type:	Other	
Batch Count:		
Sample Count:		
Unit Mass:		
Serving Mass:		
Density:		

Pesticide Test Results - Pass

01/21/2020

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

The LC-Mass Spectronne	euy anu			100 / 100
AL	D	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 <mark>.0</mark> 38
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
Pentachloronitrobenzene	Pass	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
Trifloxystrobin	Pass	ND	30.0	0.007 / 0.020

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License #:	
Address:	
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License #:	
Address:	

Pesticide Test Results - Pass

01/21/2020

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

The LC-Mass Spectron	The compass spectrometry and ocompass 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		
Dimethoat <mark>e</mark>	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

Aflatoxin B1, B2, G

т Т LOD / LOQ µg/kg

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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Danielle Deschene, LQC Verified By Date: 01/22/2020

Josh Wurzer, President Date: 01/22/2020



Sample Name:	CBG-ISO-G03	
LIMS Sample ID:	200118S002	
Batch #:		
Source METRC UI):	
Sample Type:	Other	
Batch Count:		
Sample Count:		
Unit Mass:		
Serving Mass:		
Density:		

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01/18/2020
01/18/2020
Big Sky Scientific

Water Activity Test Results

Residual Solve	nt Test	Results - Pass	5	01/20/2020	Water Activity
Residual Solvent Spectrometry (GC	,	utilizing Gas Chr	omatography - Mass		Heavy Meta
1,2-Dichloroethane Benzene Chloroform Ethylene Oxide Methylene chloride Trichloroethylene Acetone Acetonitrile Butane Ethanol	Pass Pass Pass Pass Pass Pass Pass Pass	Results (µg/g) ND ND ND ND ND 81.026 ND ND ND ND	Action Limit μg/g 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LOD / LOQ µg/g 0.111 / 0.336 0.043 / 0.132 0.064 / 0.195 0.136 / 0.413 0.172 / 0.521 0.040 / 0.120 14.703 / 44.549 2.727 / 8.262 5.672 / 17.185 11.775 / 35.679	Heavy metal a Spectrometry Cadmium Lead Arsenic Mercury
Ethyl acetate Ethyl ether	Pass Pass	ND ND	5000.0 5000.0	16.227 / 49.169 11.608 / 35.172	Note
Heptane Hexane Isopropyl Alcohol Methanol Pentane Propane Toluene Total Xylenes	Pass Pass Pass Pass Pass Pass Pass Pass	ND 80.722 ND ND ND ND ND ND	5000.0 290.0 5000.0 5000.0 5000.0 5000.0 890.0 2170.0	12.982 / 39.336 1.816 / 5.502 15.358 / 46.536 15.584 / 47.220 12.355 / 37.434 1.359 / 4.117 7.174 / 21.736 34.438 / 104.347	

01/20/2020

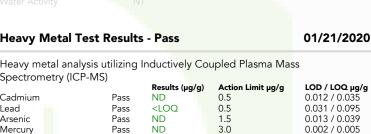
Microbiological Test Results - Pass

PCR and fluorescence detection of microbiological impurities

		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/g)

Foreign Material Test Results



Action Limit Aw

Results (Aw)

Sample Certification

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