



Certificate of Analysis

Powered by Confident Cannabis
1 of 8

Black Bear Hemp LLC

1125 NE 125th St
North Miami, FL 33161
ck@executive-digital.com
(844) 232-7690
Lic. #

Sample: 1812C4L0186.13277

Strain: Black Bear Hemp Full Spectrum Hemp Extract CBD Tincture 1500mg
Lot#: ; Batch#: T-29618-B1; Batch Size: - grams
Sample Received: 12/27/2018; Report Created: 01/18/2019; Expires: 01/18/2020

Black Bear Hemp Full Spectrum Hemp Extract CBD Tincture 1500mg

Ingestible, Tincture



Dear Valued Colleague,

Thank you for selecting C4 Laboratories. Our goal at C4 is to provide reliable data that is interpreted within the appropriate physiological context, to ultimately empower patients to use cannabis medicine more effectively. The data within this report are the result of various analytical methods that have been developed by the team of scientists at C4 Laboratories. For the characterization and quantification of 21 terpene compounds and residual solvents we use Head-Space Gas Chromatography with Flame Ionization Detection (HS-GC-FID). Additionally, Ultra High Performance Liquid Chromatography (UHPLC) is used for the characterization and quantification of the 10 major phytocannabinoids found in cannabis. All data are collected in concert with proper quality assurance/quality control measures (QA/QC), including the use of intermittent analytical blanks, sample spikes, and commercial standards.

As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison. We understand that within an individual strain that results may vary as a result of variances in sample homogeneity, analytical methodology, crop conditions, genetic drift, and/or gene flow during hybridization. However, such a comparison can provide valuable insight into sample integrity and/or the phenotypic identity of the analyzed sample.

Additionally, we have interpreted all data within the physiological context provided to us by the growing body of peer-reviewed scientific research studies. Key factors to consider when determining how to most appropriately use a particular strain of cannabis include, but are not limited to, an evaluation of the possible cannabinoid/terpene synergies and an analysis of the various cannabinoid ratios, particular the CBD-A/THC-A, CBD/THC and CBG/CBN ratios. Using the scientific interpretations provided within this report, consult a physician prior to adopting a medical cannabis regiment for the treatment of specific medical conditions.

It is important to note that when analyzing cannabis there can exist natural variability of cannabinoid and terpene concentrations within individual plants. Cannabinoid concentrations in cannabis flower have been found to increase distally with respect to the root mass. As such, the analysis of multiple samples from any plant of interest is recommended.

Thank you again for your confidence in C4 Laboratories. We strive to be an authority on cannabis education, targeted therapies and patient protection. Also, as a research laboratory, we hope to discover novel cannabis constituents through our efforts with academic research programs in the C4 Cannabinomics Collaborative. For more information about how you can collaborate with our research team please visit our website at www.c4lab.com.



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Aaron Hicks
Director of Laboratory Operations



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63.010 mg/unit

Total THC

1,337.821 mg/unit

Total CBD

1.0

THC

:

21.2

CBD

Cannabinoids

Pass

Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass %	Std. Dev.
THCa	2.864	ND	ND	
Δ^9 -THC	2.864	63.010	0.2200	<div style="width: 20px; height: 10px; background-color: #008000;"></div>
CBD	2.864	1337.821	4.6710	<div style="width: 100px; height: 10px; background-color: #008000;"></div>
CBDa	2.864	ND	ND	
CBC	2.864	41.243	0.1440	<div style="width: 5px; height: 10px; background-color: #008000;"></div>
CBG	2.864	36.947	0.1290	<div style="width: 5px; height: 10px; background-color: #008000;"></div>
CBN	2.864	ND	ND	
THCV	2.864	ND	ND	
Δ^8 -THC	2.864	ND	ND	
CBDV	2.864	ND	ND	
Total		1479.021	5.1640	

1 Unit = Bottle, 30 mL, 28.641g

Total THC = THCa * 0.877 + Δ^9 -THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; NR = Not Reported; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



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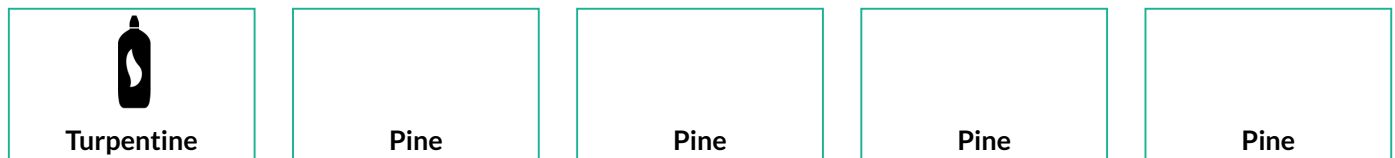
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Ingestible, Tincture



Terpenes



Analyte	LOQ	Mass	Mass
	%	%	mg/g
Terpinolene	0.001	0.003	0.03
α-Humulene	0.001	ND	ND
α-Pinene	0.001	ND	ND
α-Terpinene	0.001	ND	ND
β-Caryophyllene	0.001	<LOQ	<LOQ
β-Myrcene	0.001	ND	ND
β-Pinene	0.001	ND	ND
Camphene	0.001	ND	ND
Caryophyllene Oxide	0.001	ND	ND
δ-3-Carene	0.001	ND	ND
δ-Limonene	0.001	ND	ND
Eucalyptol	0.001	ND	ND
γ-Terpinene	0.001	ND	ND
Geraniol	0.001	ND	ND
Guaiol	0.001	ND	ND
Linalool	0.001	ND	ND
Nerolidol	0.001	ND	ND
Ocimene	0.001	ND	ND
(-)-α-Bisabolol	0.001	<LOQ	<LOQ
(-)-Isopulegol	0.001	ND	ND
p-Cymene	0.001	ND	ND

0.003%
Total Terpenes

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Ingestible, Tincture



Pesticides

Complete

Analyte	Mass	Status
	PPM	
Azoxystrobin	ND	Tested
Beta-Cyfluthrin	ND	Tested
Daminozide	ND	Tested
Myclobutanil	ND	Tested
Pacllobutrazol	ND	Tested
Quinoxifen	ND	Tested

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Microbials

Complete

Analyte	Units	Status
Aerobic Bacteria	CFU/g ND	Tested

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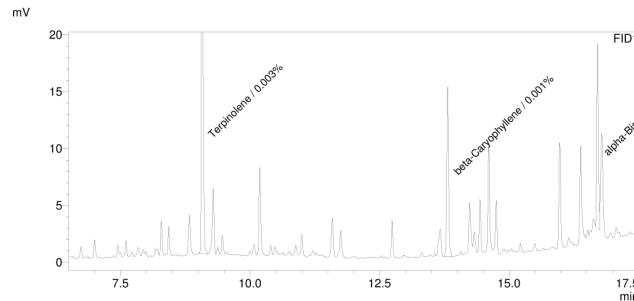
1/3/2019 7:36:41 AM Page 1 / 1

"Patient protection through true science"

C4 Laboratories, LLC

Sample Name : 1812C4L0186.13277_Hemp_Extract_CBD_Tincture_1500mg
Sample ID : Black Bear Hemp
Data Filename : 1812C4L0186.13277_Hemp_Extract_CBD_Tincture_1500mg.gcd
Method Filename : Terpenes v3 28Nov18.gcm
Batch Filename : Batch v1.gcb
Vial # : 5
Injection Volume : 1000 uL
Date Acquired : 1/2/2019 11:43:24 AM
Date Processed : 1/2/2019 12:03:28 PM
Sample Type : Medible
Acquired by : Zach Hanes
Processed by : Zach Hanes

Terpenes Headspace Analysis



Terpene	Conc.
alpha-Pinene	--
Camphene	--
beta-Pinene	--
beta-Myrcene	--
delta-3-Carene	--
alpha-Terpinene	--
p-Cymene	--
d-Limonene	--
Ocimene	--
gamma-Terpinene	--
Terpinolene	0.003 %
Linalool	--
Isopulegol	--
Geraniol	--
beta-Caryophyllene	0.001 %
alpha-Humulene	--
Nerolidol	--
Guaiol	--
alpha-Bisabolol	0.001 %
Eucalyptol	--
Caryophyllene oxide	--

C:\LabSolutions\Data\02 Jan 2019\1812C4L0186.13277_Hemp_Extract_CBD_Tincture_1500mg.gcd



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1/3/2019 12:54:00 PM Page 1 / 1



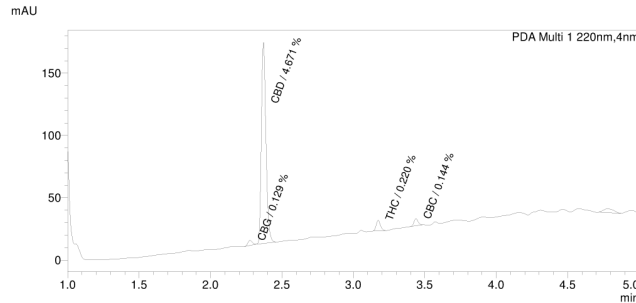
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Sample Name : 1812C4L0186.13277_Hemp_Extract_CBD_Tincture_1500mg
Sample ID : Black Bear Hemp
Data Filename : 1812C4L0186.13277_Hemp_Extract_CBD_Tincture_1500mg_001.lcd
Method Filename : 10 cannabinoids 1 Jan 2019.lcm
Batch Filename : Batch v8.lcb
Vial # : 1-19
Injection Volume : 10 uL
Date Acquired : 1/3/2019 11:21:18 AM
Date Processed : 1/3/2019 11:28:19 AM
Sample Type : Medible
Acquired by : Aaron J. Hicks
Processed by : Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

Ret. Time	Area	Conc.	Name
--	--	--	-- CBD-V
--	--	--	-- CBD-A
2.277	8638	0.129%	CBG
2.370	359989	4.671%	CBD
--	--	--	-- THC-V
--	--	--	-- CBN
3.174	17117	0.220%	THC
--	--	--	-- CB-THC
3.438	11766	0.144%	CBC
--	--	--	-- THC-A

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