



Certificate of Analysis

Powered by Confident Cannabis
1 of 6

Alpha Therapeutics

Scottsdale, AZ 85250
gdada@stasiscbd.com
(602) 558-9987
Lic. #

Sample: 1804C4L0118.3811

Strain: 10% CBD Oil
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 04/18/2018; Report Created: 04/25/2018; Expires: 04/25/2019

Raw Hemp Oil 10%

Concentrates & Extracts, Full Extract Cannabis Oil, Pressing



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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 regimen 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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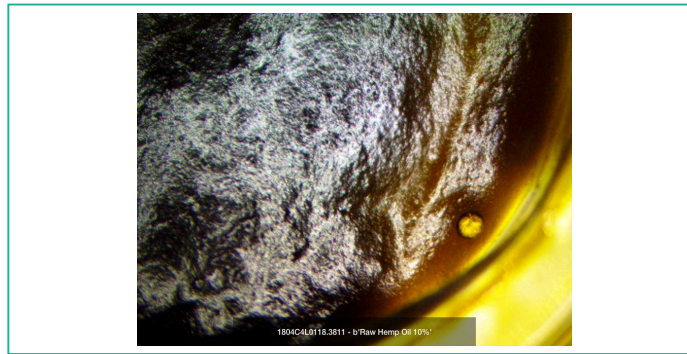
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Cannabinoids

Safety

0.390%

Total THC

8.161%

Total CBD

Not Tested

Microbials

Pass

Foreign Matter

Not Tested

Solvents

Terpenes



Pine
 α -Pinene



Flowers
Geraniol



Lime
 α -Terpinene



Hops
 β -Myrcene



Cinnamon
 β -Caryophyllene



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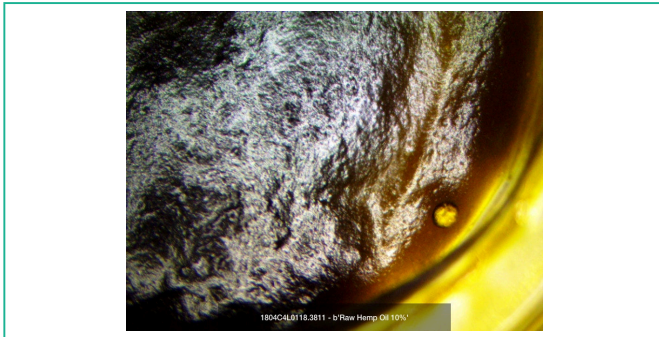
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0.390%
Total THC

8.161%
Total CBD

1.0 : **20.9**
THC : CBD

Cannabinoids

Pass
Foreign Matter

Analyte	LOQ %	Mass %	Mass mg/g	Std. Dev.
THCa	0.010	0.240	2.40	
Δ9-THC	0.010	0.180	1.80	
CBD	0.010	3.506	35.06	
CBDa	0.010	5.308	53.08	
CBC	0.010	0.214	2.14	
CBG	0.010	ND	ND	
CBN	0.010	ND	ND	
THCV	0.010	ND	ND	
Δ8-THC	0.010	ND	ND	
CBDV	0.010	0.094	0.94	
Total		9.542	95.42	

Total THC = THCa * 0.877 + d9-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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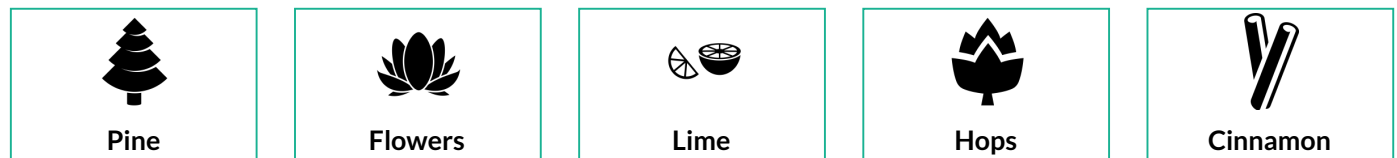
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Terpenes



Analyte	LOQ	Mass	Mass	
	%	%	mg/g	
α-Pinene	0.001	0.028	0.28	
Geraniol	0.001	0.018	0.18	
α-Terpinene	0.001	0.016	0.16	
β-Myrcene	0.001	0.008	0.08	
β-Caryophyllene	0.001	0.007	0.07	
p-Cymene	0.001	0.005	0.05	
γ-Terpinene	0.001	0.004	0.04	
Eucalyptol	0.001	0.003	0.03	
Ocimene	0.001	0.003	0.03	
Camphene	0.001	0.002	0.02	
α-Humulene	0.001	ND	ND	
β-Pinene	0.001	ND	ND	
Caryophyllene Oxide	0.001	ND	ND	
δ-3-Carene	0.001	ND	ND	
δ-Limonene	0.001	ND	ND	
Guaiol	0.001	ND	ND	
Linalool	0.001	ND	ND	
Nerolidol	0.001	ND	ND	
(-)-α-Bisabolol	0.001	ND	ND	
(-)-Isopulegol	0.001	ND	ND	
Terpinolene	0.001	ND	ND	

0.094%
Total Terpenes

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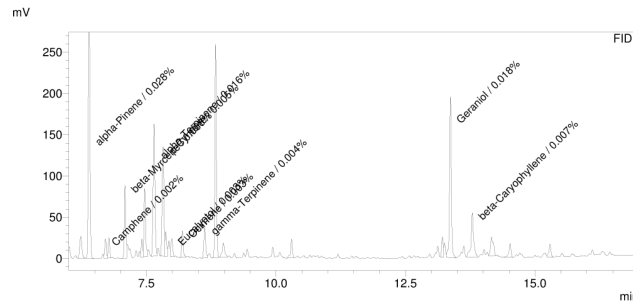
4/25/2018 9:43:52 AM Page 1 / 1

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C4 Laboratories, LLC

Sample Name	: 1804C4L0118.3811_Raw_Hemp_Oil_10	Sample Type	: Extract
Sample ID	: Alpha Therapeutic	Acquired by	: Zach Hanes
Data Filename	: 1804C4L0118.3811_Raw_Hemp_Oil_10.gcd	Processed by	: Zach Hanes
Method Filename	: Terpenes v8 19Apr18.gcm		
Batch Filename	: Batch v3.gcb		
Vial #	: 61		
Injection Volume	: 1000 uL		
Date Acquired	: 4/24/2018 8:40:34 PM		
Date Processed	: 4/24/2018 9:00:37 PM		

Terpenes Headspace Analysis



Terpene	Conc.
alpha-Pinene	0.028 %
Camphene	0.002 %
beta-Pinene	-
beta-Myrcene	0.008 %
delta-3-Carene	-
alpha-Terpinene	0.016 %
p-Cymene	0.005 %
d-Limonene	-
Ocimene	0.003 %
gamma-Terpinene	0.004 %
Terpinolene	-
Linalool	-
Isopulegol	-
Geraniol	0.018 %
beta-Caryophyllene	0.007 %
alpha-Humulene	-
Nerolidol	-
Guaiol	-
alpha-Bisabolol	-
Eucalyptol	0.003 %
Caryophyllene oxide	-

C:\LabSolutions\Data\23 Apr 2018\1804C4L0118.3811_Raw_Hemp_Oil_10.gcd



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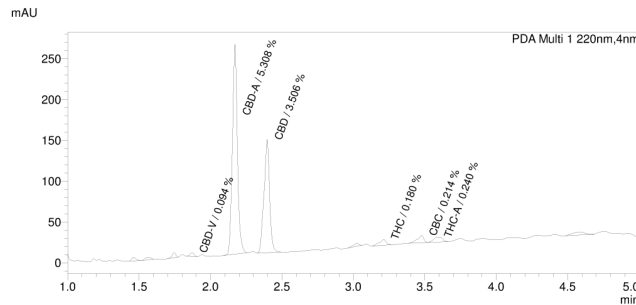
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Suite D206
Mesa, AZ 85210
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Sample Name : 1804C4L0118.3811_Raw_Hemp_Oil_10
Sample ID : Alpha Therapeutics
Data Filename : 1804C4L0118.3811_Raw_Hemp_Oil_10_002.lcd
Method Filename : 10 cannabinoids 6a Mar 2018.lcm
Batch Filename : Batch v13.lcb
Vial # : 1-29
Injection Volume : 5 ul
Date Acquired : 4/23/2018 2:46:08 PM
Date Processed : 4/23/2018 2:53:09 PM
Sample Type : Extract
Acquired by : Aaron J. Hicks
Processed by : Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

Ret. Time	Area	Conc.	Name
1.871	8907	0.094%	CBD-V
2.171	623806	5.308%	CBD-A
2.397	377619	3.506%	CBD
3.212	22811	0.180%	THC
3.478	26730	0.214%	CBC
3.584	25415	0.240%	THC-A

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