



Certificate of Analysis

Powered by Confident Cannabis
1 of 3

Open Book Extracts (DBA)

317 Lucy Garrett Road
Roxboro, AZ 27574
maggie@obextracts.com
(919) 815-8151
Lic. #

Sample: 1905C4L0152.5515

Strain: C
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 05/30/2019; Report Created: 06/06/2019; Expires: 06/06/2020

WE LB #0001

Topical, Salve, Coconut Oil



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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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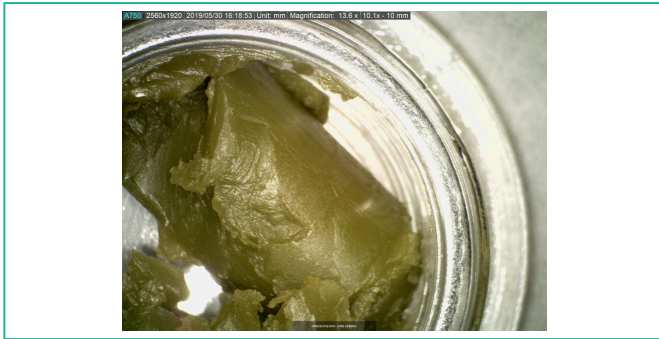
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0.092%
Total THC

2.203%
Total CBD

1.0 : **23.9**
THC : CBD

Cannabinoids

NR
Moisture

Pass
Foreign Matter

Analyte	LOQ	Mass	Mass	Std. Dev.
	%	%	mg/g	
THCa	0.010	ND	ND	
Δ 9-THC	0.010	0.092	0.92	<div style="width: 10%;"></div>
CBD	0.010	1.840	18.40	<div style="width: 80%;"></div>
CBDa	0.010	0.414	4.14	<div style="width: 20%;"></div>
CBC	0.010	0.106	1.06	<div style="width: 5%;"></div>
CBG	0.010	0.041	0.41	<div style="width: 2%;"></div>
CBN	0.010	ND	ND	
THCV	0.010	ND	ND	
Δ 8-THC	0.010	ND	ND	
CBDV	0.010	<LOQ	<LOQ	
Total		2.493	24.93	

Notes:

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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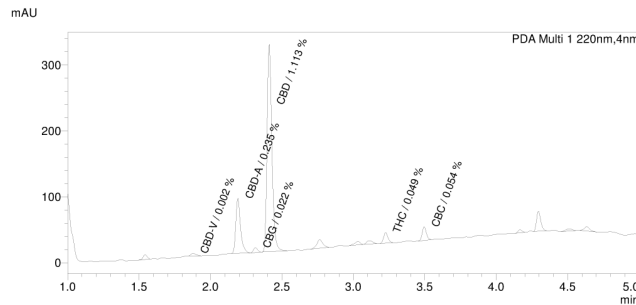
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Mesa, AZ 85210
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"Patient protection through true science"

C4 Laboratories, LLC

Sample Name	: 1905C4L0152.5515_WE_LB_#0001		
Sample ID	: Open Book Extracts		
Data Filename	: 1905C4L0152.5515_WE_LB_#0001_005.lcd		
Method Filename	: 10 cannabinoids 5 Jun 2019.lcm		
Batch Filename	: Batch v7.lcb		
Vial #	: 1-13	Sample Type	: Topical
Injection Volume	: 10 uL		
Date Acquired	: 6/6/2019 11:26:37 AM	Acquired by	: Aaron J. Hicks
Date Processed	: 6/6/2019 11:33:38 AM	Processed by	: Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

Ret. Time	Area	Conc.	Name
1.878	8859	0.002%	CBD-V
2.191	189696	0.235%	CBD-A
2.314	14543	0.022%	CBG
2.411	734440	1.113%	CBD
--	--	--	THC-V
--	--	--	CBN
3.226	34386	0.049%	THC
--	--	--	CB
3.496	41511	0.054%	CBC
--	--	--	THC-A

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