



Certificate of Analysis

Powered by Confident Cannabis
1 of 7

Open Book Extracts (DBA)

Sample: 1908C4L0088.9064

Mesa, AZ 85210

Strain: C

Lot#: ; Batch#: ; Batch Size: - grams

Sample Received: 08/19/2019; Report Created: 08/29/2019; Expires: 08/29/2020

Lic. #

OECROLHOYXG19004

Concentrates & Extracts, Full Extract Cannabis Oil, 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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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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Open Book Extracts (DBA)

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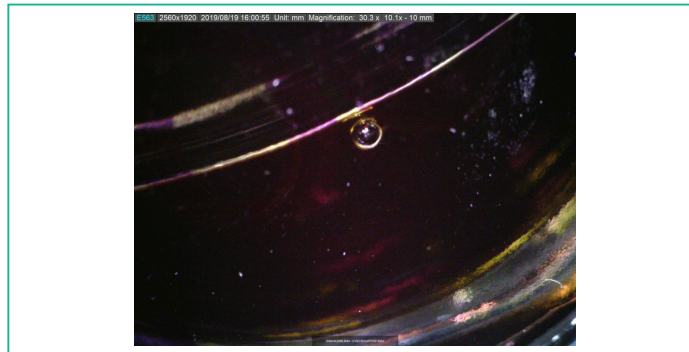
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Cannabinoids

Safety

2.611 mg/mL Total THC	46.494 mg/mL Total CBD	Complete Microbials	NR Moisture	Pass Foreign Matter	Pass Solvents
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Terpenes

 Hops β-Myrcene	 Cinnamon β-Caryophyllene	 Pine α-Pinene	 Herbal p-Cymene	Pine
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Mesa, AZ 85210

Strain: C

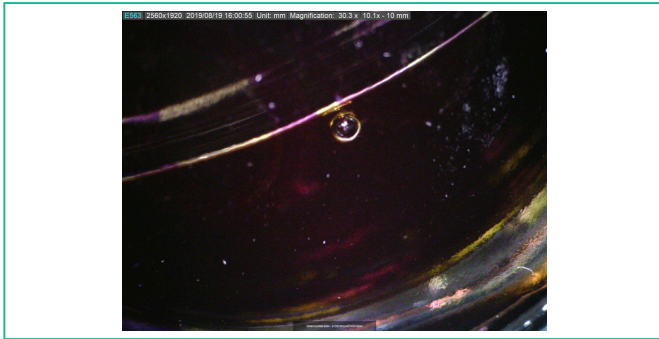
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Concentrates & Extracts, Full Extract Cannabis Oil, Coconut Oil



2.611 mg/mL

Total THC

46.494 mg/mL

Total CBD

1.0

THC

17.8

CBD

Cannabinoids

NR

Moisture

Pass

Foreign Matter

Analyte	LOQ mg/mL	Mass mg/mL	Mass %	Std. Dev.
THCa	0.095	0.686	0.0720	
Δ9-THC	0.095	2.009	0.2110	
CBD	0.095	42.035	4.4140	█
CBDa	0.095	5.085	0.5340	█
CBC	0.095	3.057	0.3210	█
CBG	0.095	1.000	0.1050	
CBN	0.095	ND	ND	
THCV	0.095	ND	ND	
Δ8-THC	0.095	ND	ND	
CBDV	0.095	0.971	0.1020	
Total		54.843	5.7590	

Notes: Chromatograms available upon request.

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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Concentrates & Extracts, Full Extract Cannabis Oil, Coconut Oil



Terpenes



Analyte	LOQ	Mass	Mass	
	%	%	mg/g	
β-Myrcene	0.001	0.016	0.16	
β-Caryophyllene	0.001	0.012	0.12	
α-Pinene	0.001	0.006	0.06	
p-Cymene	0.001	0.004	0.04	
α-Humulene	0.001	0.003	0.03	
β-Pinene	0.001	0.002	0.02	
α-Terpinene	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	ND	ND	
(-)-Isopulegol	0.001	ND	ND	
Terpinolene	0.001	ND	ND	

0.043%
Total Terpenes

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Concentrates & Extracts, Full Extract Cannabis Oil, Coconut Oil



Residual Solvents

Pass

Analyte	Mass	Status
	PPM	
Acetone	26	Pass
Acetonitrile	ND	Pass
Benzene	ND	Pass
Carbon-Tetrachloride	ND	Pass
Chloroform	ND	Pass
Ethanol	ND	Pass
Heptane	ND	Pass
Hexanes	ND	Pass
Isobutane	ND	Pass
Isopropanol	ND	Pass
Methanol	ND	Pass
n-Butane	ND	Pass
o-Xylene	ND	Pass
Pentane	ND	Pass
Tetrahydrofuran	ND	Pass
Toluene	ND	Pass
Xylenes	ND	Pass

LOQ = Limit of Quantitation (1 ppm); ND = Not Detected; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



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Concentrates & Extracts, Full Extract Cannabis Oil, Coconut Oil



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
Aspergillus	CFU/g	Tested
STEC E. coli	ND	Tested
Klebsiella pneumoniae	ND	Tested
Pseudomonas aeruginosa	ND	Tested
Salmonella	ND	Tested
Total Candida	ND	Tested

Not Tested

 Gender

LOQ = Limit of Quantitation; TNTC = Too Numerous to Count; NR = Not Reported; NT = Not Tested. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory



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