



Certificate of Analysis

Powered by ConfidentCannabis
1 of 6

Prime 90

190 North Cutler Drive
North Salt Lake, AZ 85210
Lic. #

Sample: 1906C4L0026.6186

Strain: 750 mg
Lot#: ; Batch#: ; Batch Size: -grams
Sample Received: 06/04/2019; Report Created: 06/14/2019; Expires: 06/14/2020

750 mg

Ingestible, Tincture, Alcohol



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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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1.011 mg/mL

Total THC

28.521 mg/mL

Total CBD

1.0

THC

28.2

CBD

Cannabinoids

NR

Moisture

Pass

Foreign Matter

Analyte	LOQ mg/mL	Mass mg/mL	Mass %	Std. Dev.
THCa	0.096	ND	ND	
Δ^9 -THC	0.096	1.011	0.1050	
CBD	0.096	27.651	2.8710	
CBDa	0.096	0.992	0.1030	
CBC	0.096	0.809	0.0840	
CBG	0.096	0.616	0.0640	
CBN	0.096	ND	ND	
THCV	0.096	ND	ND	
Δ^8 -THC	0.096	ND	ND	
CBDV	0.096	ND	ND	
Total		31.079	3.2270	

Notes: Chromatograms available upon request.

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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Terpenes



Analyte	LOQ	Mass	Mass	
	%	%	mg/g	
Eucalyptol	0.001	0.073	0.73	<div style="width: 73%;"></div>
p-Cymene	0.001	0.032	0.32	<div style="width: 32%;"></div>
α-Pinene	0.001	0.016	0.16	<div style="width: 16%;"></div>
β-Pinene	0.001	0.013	0.13	<div style="width: 13%;"></div>
Camphene	0.001	0.011	0.11	<div style="width: 11%;"></div>
Ocimene	0.001	0.010	0.10	<div style="width: 10%;"></div>
(-)-Isopulegol	0.001	0.010	0.10	<div style="width: 10%;"></div>
β-Caryophyllene	0.001	0.007	0.07	<div style="width: 7%;"></div>
α-Humulene	0.001	0.005	0.05	<div style="width: 5%;"></div>
β-Myrcene	0.001	0.004	0.04	<div style="width: 4%;"></div>
α-Terpinene	0.001	ND	ND	
Caryophyllene Oxide	0.001	ND	ND	
β-3-Carene	0.001	ND	ND	
β-Limonene	0.001	ND	ND	
β-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	
(-)-α-Bisabolol	0.001	ND	ND	
Terpinolene	0.001	ND	ND	

0.181%
Total Terpenes

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Residual Solvents

Analyte	Mass PPM	Status
Acetone	16	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	19	Pass
Methanol	ND	Pass
n-Butane	ND	Pass
o-Xylene	ND	Pass
Pentane	ND	Pass
Tetrahydrofuran	ND	Pass
Toluene	ND	Pass
Xylenes	ND	Pass



Pass
Foreign Matter

Notes: Chromatograms available upon request.

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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750 mg

Ingestible, Tincture, Alcohol



Microbials

Complete

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

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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Heavy Metals

Complete

Analyte	Mass	LOQ	Limit	Status
	PPM	PPM	PPM	
Arsenic	<LOQ	0.01		Tested
Cadmium	<LOQ	0.01		Tested
Lead	0.07	0.01		Tested
Mercury	<LOQ	0.01		Tested



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