



Certificate of Analysis

Powered by Confident Cannabis
1 of 5

Venom Extracts

Phoenix, AZ 85022
jcohen089@gmail.com
(602) 405-6446
Lic. #0259910DARS639141001

Sample: 1908C4L0049.8832

Strain: Mama Mia
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 08/08/2019; Report Created: 08/12/2019; Expires: 08/12/2020

Mama Mia Shatter

Concentrates & Extracts, Shatter, Butane



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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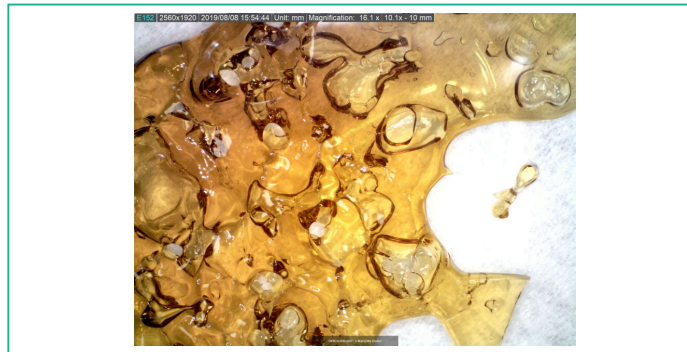
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Cannabinoids

Safety

73.267% Total THC	<LOQ Total CBD	Not Tested Microbials	NR Moisture	Pass Foreign Matter	Pass Solvents
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Terpenes

 Turpentine Terpinolene	 Hops β-Myrcene	 Herbal p-Cymene	 Pine β-Pinene	 Earthy Ocimene
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Venom Extracts

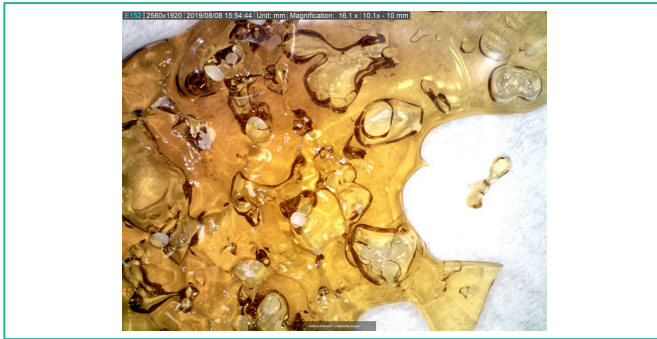
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73.267%
Total THC

<LOQ
Total CBD

1 : **0**
THC : CBD

Cannabinoids

NR Moisture
Pass Foreign Matter

Analyte	LOQ %	Mass %	Mass mg/g	Std. Dev.
THCa	0.010	79.444	794.44	
Δ^9 -THC	0.010	3.595	35.95	
CBD	0.010	ND	ND	
CBDa	0.010	ND	ND	
CBC	0.010	ND	ND	
CBG	0.010	ND	ND	
CBN	0.010	ND	ND	
THCV	0.010	ND	ND	
Δ^8 -THC	0.010	ND	ND	
CBDV	0.010	ND	ND	
Total		83.039	830.39	

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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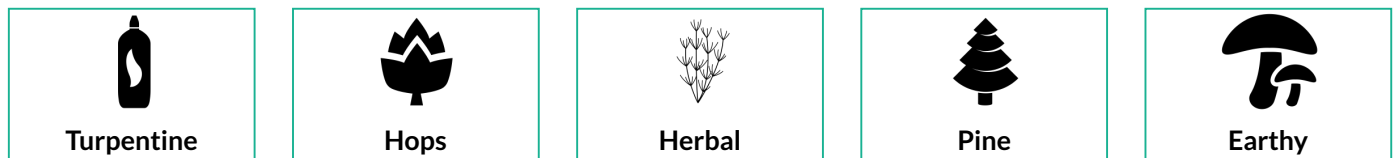
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Terpenes



Analyte	LOQ	Mass	Mass	
	%	%	mg/g	
Terpinolene	0.001	0.243	2.43	
β-Myrcene	0.001	0.181	1.81	
p-Cymene	0.001	0.169	1.69	
β-Pinene	0.001	0.134	1.34	
α-Pinene	0.001	0.129	1.29	
Ocimene	0.001	0.095	0.95	
β-Caryophyllene	0.001	0.072	0.72	
Linalool	0.001	0.040	0.40	
γ-Terpinene	0.001	0.028	0.28	
α-Terpinene	0.001	0.025	0.25	
δ-3-Carene	0.001	0.020	0.20	
α-Humulene	0.001	0.016	0.16	
Camphene	0.001	0.014	0.14	
Eucalyptol	0.001	0.005	0.05	
Caryophyllene Oxide	0.001	ND	ND	
δ-Limonene	0.001	ND	ND	
Geraniol	0.001	ND	ND	
Guaiol	0.001	ND	ND	
Nerolidol	0.001	ND	ND	
(-)-α-Bisabolol	0.001	ND	ND	
(-)-Isopulegol	0.001	ND	ND	

1.171%
Total Terpenes

Notes: Chromatograms available upon request.

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Residual Solvents

Pass

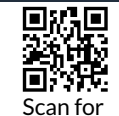
Analyte	Mass	Status
	PPM	
Acetone	127	Pass
Acetonitrile	ND	Pass
Benzene	ND	Pass
Carbon-Tetrachloride	ND	Pass
Chloroform	ND	Pass
Ethanol	3	Pass
Heptane	ND	Pass
Hexanes	ND	Pass
Isobutane	ND	Pass
Isopropanol	42	Pass
Methanol	ND	Pass
n-Butane	162	Pass
o-Xylene	ND	Pass
Pentane	ND	Pass
Tetrahydrofuran	ND	Pass
Toluene	ND	Pass
Xylenes	ND	Pass

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