Certificate of Analysis

Venom Extracts

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

Sample: 1903C4L0021.2354

Strain: Maui Wowie
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 03/05/2019; Report Created: 03/07/2019; Expires: 03/07/2020

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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

1930 S. Alma School Rd.
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Aaron Hicks
Director of Laboratory Operations

Scan for References

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Maui Wowie Shatter

Concentrates & Extracts, Shatter, Butane

Cannabinoids

70.492%	<LOQ
Total THC	Total CBD

Safety

Not Tested	Pass	Pass
Microbials	Foreign Matter	Solvents

Terpenes

Hops	Pine	Cinnamon	Lavender	Herbal
β-Myrcene	α-Pinene	β-Caryophyllene	Linalool	p-Cymene

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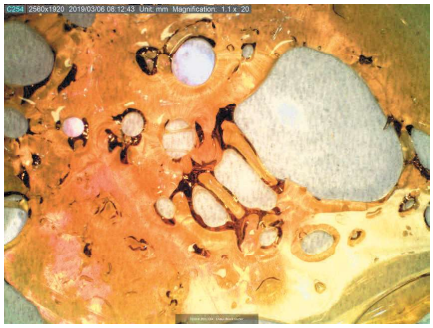
Maui Wowie Shatter

Concentrates & Extracts, Shatter, Butane



70.492%	<LOQ
Total THC	Total CBD

1	:	0
THC		CBD

Cannabinoids

Pass
Foreign Matter

Analyte	LOQ	Mass	Mass	Std. Dev.
	%	%	mg/g	
THCa	0.010	78.348	783.48	
Δ9-THC	0.010	1.781	17.81	
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	
Δ8-THC	0.010	ND	ND	
CBDV	0.010	ND	ND	
Total		**80.129**	**801.29**	

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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Maui Wowie Shatter

Concentrates & Extracts, Shatter, Butane

Terpenes

Hops | Pine | Cinnamon | Lavender | Herbal

Analyte	LOQ %	Mass %	Mass mg/g
β-Myrcene	0.001	0.573	5.73
α-Pinene	0.001	0.336	3.36
β-Caryophyllene	0.001	0.226	2.26
Linalool	0.001	0.144	1.44
p-Cymene	0.001	0.102	1.02
Ocimene	0.001	0.100	1.00
β-Pinene	0.001	0.073	0.73
α-Humulene	0.001	0.054	0.54
Camphene	0.001	0.011	0.11
Terpinolene	0.001	0.005	0.05
(-)-α-Bisabolol	0.001	0.004	0.04
(-)-Isopulegol	0.001	0.002	0.02
α-Terpinene	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
Nerolidol	0.001	ND	ND

1.630%

Total Terpenes

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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Maui Wowie Shatter

Concentrates & Extracts, Shatter, Butane

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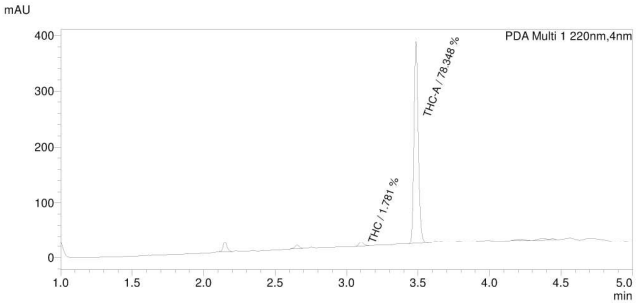
Suite D206
Mesa, AZ 85210
www.c4lab.com
"Patient protection through true science"

C4 Laboratories, LLC

Sample Name	: 1903C4L0021.2354_Maui_Wowie_Shatter		
Sample ID	: Venom Extracts		
Data Filename	: 1903C4L0021.2354_Maui_Wowie_Shatter_008.lcd		
Method Filename	: 10 cannabinoids 1 Jan 2019.lcm		
Batch Filename	: Batch v5.lcb		
Vial #	: 1-23	Sample Type	: Concentrate
Injection Volume	: 5 uL		
Date Acquired	: 3/6/2019 2:49:02 PM	Acquired by	: Aaron J. Hicks
Date Processed	: 3/6/2019 2:56:03 PM	Processed by	: Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

PDA

Ret. Time	Area	Conc.	Name
--	--	--	CBD-V
--	--	--	CBD-A
--	--	--	CBG
--	--	--	CBD
--	--	--	THC-V
--	--	--	CBN
3.101	17115	1.781%	THC
--	--	--	d8-THC
--	--	--	CBC
3.485	765868	78.348%	THC-A

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