Certificate of Analysis

Venom Extracts

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

Sample: 1805C4L0209.5457

Strain: double tangie banana
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 05/30/2018; Report Created: 06/01/2018; Expires: 06/01/2019

double tangie banana

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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

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Aaron Hicks
Director of Laboratory Operations

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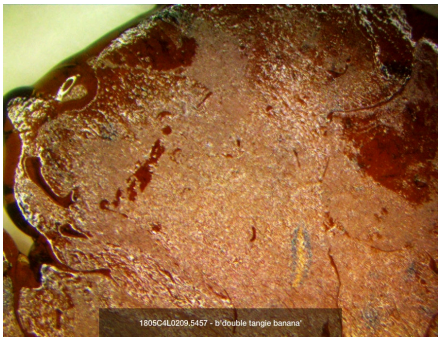

Cannabinoids

67.466%	1.790%
Total THC	Total CBD

Safety

Not Tested	Pass	Pass
Microbials	Foreign Matter	Solvents

Terpenes

Hops	Pine	Herbal	Flowers	Turpentine
β-Myrcene	α-Pinene	p-Cymene	Geraniol	Terpinolene

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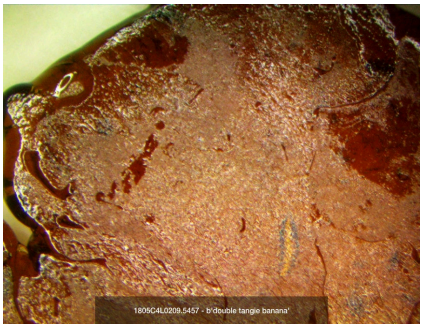
Concentrates & Extracts, Shatter, Butane



67.466%	1.790%
Total THC	Total CBD

37.7 :	1.0
THC	CBD

Cannabinoids

Pass
Foreign Matter

Analyte	LOQ	Mass	Mass	Std. Dev.
	%	%	mg/g	
THCa	0.010	66.717	667.17	
Δ9-THC	0.010	8.955	89.55	
CBD	0.010	ND	ND	
CBDa	0.010	2.041	20.41	
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		**77.713**	**777.13**	

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, Shatter, Butane

Terpenes

Hops | Pine | Herbal | Flowers | Turpentine

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Myrcene	0.001	0.405	4.05
α-Pinene	0.001	0.317	3.17
β-Pinene	0.001	0.137	1.37
p-Cymene	0.001	0.105	1.05
Geraniol	0.001	0.083	0.83
Terpinolene	0.001	0.061	0.61
γ-Terpinene	0.001	0.041	0.41
Camphene	0.001	0.026	0.26
β-Caryophyllene	0.001	0.021	0.21
δ-Limonene	0.001	0.018	0.18
Ocimene	0.001	0.005	0.05
(-)-α-Bisabolol	0.001	0.005	0.05
α-Terpinene	0.001	0.004	0.04
Eucalyptol	0.001	0.003	0.03
δ-3-Carene	0.001	0.002	0.02
Guaiol	0.001	0.002	0.02
α-Humulene	0.001	ND	ND
Caryophyllene Oxide	0.001	ND	ND
Linalool	0.001	ND	ND
Nerolidol	0.001	ND	ND
(-)-Isopulegol	0.001	ND	ND

1.235%

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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double tangie banana

Concentrates & Extracts, Shatter, Butane

Residual Solvents

Pass

Analyte	Mass	Status
	PPM	
Acetone	15	Pass
Acetonitrile	ND	Pass
Chloroform	ND	Pass
Ethanol	ND	Pass
Heptane	ND	Pass
Hexanes	ND	Pass
Isobutane	ND	Pass
Isopropanol	12	Pass
Methanol	ND	Pass
n-Butane	104	Pass
Toluene	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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double tangie banana

Concentrates & Extracts, Shatter, Butane

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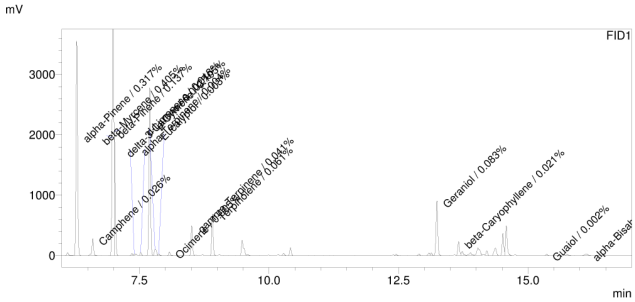
Sample Name	: 1805C4L0209.5457_double_tangie_banana_ter		
Sample ID	: Venom Extracts		
Data Filename	: 1805C4L0209.5457_double_tangie_banana_ter.gcd		
Method Filename	: Terpenes v3 21May18.gcm		
Batch Filename	: Batch v4.gcb		
Vial #	: 49	Sample Type	: Extract
Injection Volume	: 1000 uL		
Date Acquired	: 5/31/2018 7:10:04 PM	Acquired by	: Zach Hanes
Date Processed	: 5/31/2018 7:30:07 PM	Processed by	: Zach Hanes

Terpenes Headspace Analysis



FID1

Terpene	Conc.
alpha-Pinene	0.317 %
Camphene	0.026 %
beta-Pinene	0.137 %
beta-Myrcene	0.405 %
delta-3-Carene	0.002 %
alpha-Terpinene	0.004 %
p-Cymene	0.105 %
d-Limonene	0.018 %
Ocimene	0.005 %
gamma-Terpinene	0.041 %
Terpinolene	0.061 %
Linalool	--
Isopulegol	--
Geraniol	0.083 %
beta-Caryophyllene	0.021 %
alpha-Humulene	--
Nerolidol	--
Guaiol	0.002 %
alpha-Bisabolol	0.005 %
Eucalyptol	0.003 %
Caryophyllene oxide	--

C:\LabSolutions\Data\30 May 2018\1805C4L0209.5457_double_tangie_banana_ter.gcd

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double tangie banana

Concentrates & Extracts, Shatter, Butane

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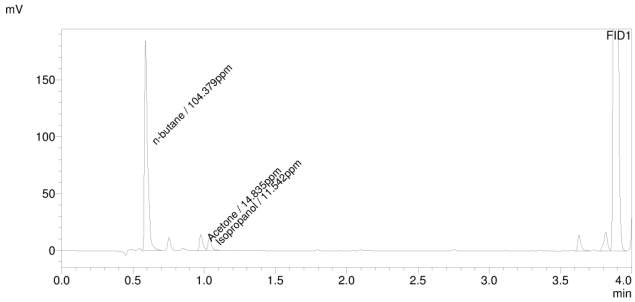
Sample Name	: 1805C4L0209.5457_double_tangie_banana		
Sample ID	: Venom Extracts		
Data Filename	: 1805C4L0209.5457_double_tangie_banana.gcd		
Method Filename	: Solvents v3 10May18.gcm		
Batch Filename	: Batch v1.gcb		
Vial #	: 74	Sample Type	: Concentrate
Injection Volume	: 1000 uL		
Date Acquired	: 6/1/2018 7:05:06 AM	Acquired by	: Zach Hanes
Date Processed	: 6/1/2018 7:25:09 AM	Processed by	: Zach Hanes

Solvents Headspace Analysis



FID1

Solvent	Conc.
t-butane	--
n-butane	104.379 ppm
Methanol	--
Ethanol	--
Acetone	14.835 ppm
Isopropanol	11.542 ppm
Acetonitrile	--
RT:1.508	--
RT:1.878	--
RT:2.124	--
RT:2.268	--
RT:2.932	--
RT:3.669	--

C:\LabSolutions\Data\31 May 2018\1805C4L0209.5457_double_tangie_banana.gcd

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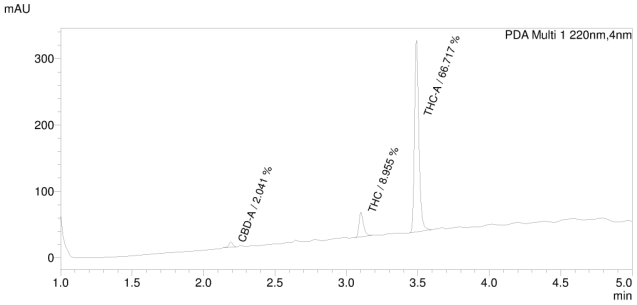
Sample Name	: 1805C4L0209.5457_double_tangie_banana		
Sample ID	: Venom Extracts		
Data Filename	: 1805C4L0209.5457_double_tangie_banana_001.lcd		
Method Filename	: 10 cannabinoids 30 May 2018.lcm		
Batch Filename	: Batch v16.lcb		
Vial #	: 1-37	Sample Type	: Concentrate
Injection Volume	: 5 uL		
Date Acquired	: 5/31/2018 4:22:34 PM	Acquired by	: Aaron J. Hicks
Date Processed	: 5/31/2018 4:29:36 PM	Processed by	: Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

PDA

Ret. Time	Area	Conc.	Name
--	--	--	CBD-V
2.191	15406	2.041%	CBD-A
--	--	--	CBG
--	--	--	CBD
--	--	--	THC-V
--	--	--	CBN
3.102	80855	8.955%	THC
--	--	--	d8-THC
--	--	--	CBC
3.491	614224	66.717%	THC-A

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