



# Certificate of Analysis

Powered by Confident Cannabis  
1 of 9

## TruPotency

3635 E 34 Street  
Tucson, AZ 85713  
brennan@trupotency.com  
(520) 977-2136  
Lic. #

Sample: 1905C4L0028.4837

Strain: Blend Hemp  
Lot#: ; Batch#: Gel Caps; Batch Size: - grams  
Sample Received: 05/08/2019; Report Created: 05/15/2019; Expires: 05/15/2020

## 7IH@Fqi

Ingestible, Other, CO2



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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](http://www.c4lab.com).



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(480) 219-6460  
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Aaron Hicks  
Director of Laboratory Operations



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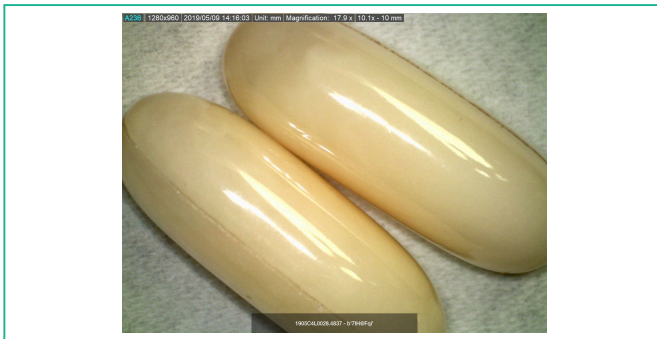
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<LOQ  
Total THC

10.834 mg/unit  
Total CBD

0 : 1  
THC : CBD

## Cannabinoids

NR Moisture  
Pass Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass %	Std. Dev.
THCa	0.114	ND	ND	
Δ9-THC	0.114	ND	ND	
CBD	0.114	10.834	0.9480	
CBDa	0.114	ND	ND	
CBC	0.114	ND	ND	
CBG	0.114	ND	ND	
CBN	0.114	ND	ND	
THCV	0.114	ND	ND	
Δ8-THC	0.114	ND	ND	
CBDV	0.114	ND	ND	
<b>Total</b>		<b>10.834</b>	<b>0.9480</b>	

1 Unit = Capsule, 1.1428g

### Notes:

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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## Terpenes



Analyte	LOQ %	Mass %	Mass mg/g
α-Humulene	0.001	ND	ND
α-Pinene	0.001	ND	ND
α-Terpinene	0.001	ND	ND
β-Caryophyllene	0.001	ND	ND
β-Myrcene	0.001	ND	ND
β-Pinene	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
p-Cymene	0.001	ND	ND
Terpinolene	0.001	ND	ND

**0.000%**  
Total Terpenes

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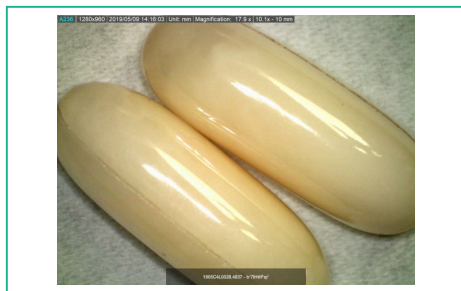
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## Residual Solvents

Analyte	Mass PPM	Status
Acetone	ND	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



**Pass**  
Foreign Matter



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## 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
Yeast & Mold	CFU/g ND	Tested

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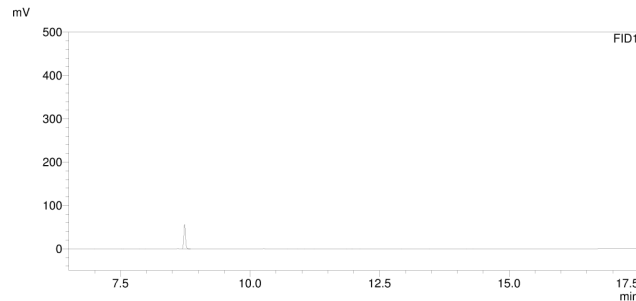
5/13/2019 9:48:29 AM Page 1 / 1

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## C4 Laboratories, LLC

Sample Name	: 1905C4L0028.4837	Sample Type	: Medible
Sample ID	: TruPotency	Acquired by	: Zach Hanes
Data Filename	: 1905C4L0028.4837.gcd	Processed by	: Zach Hanes
Method Filename	: Terpenes v9 14Jan19.gcm		
Batch Filename	: Batch v1.gcb		
Vial #	: 3		
Injection Volume	: 1000 uL		
Date Acquired	: 5/10/2019 2:47:26 PM		
Date Processed	: 5/10/2019 3:07:29 PM		

### Terpenes Headspace Analysis



FID1	Terpene	Conc.
	alpha-Pinene	--
	Camphene	--
	beta-Pinene	--
	beta-Myrcene	--
	delta-3-Carene	--
	alpha-Terpinene	--
	p-Cymene	--
	d-Limonene	--
	Ocimene	--
	gamma-Terpinene	--
	Terpinolene	--
	Linalool	--
	Isopulegol	--
	Geraniol	--
	beta-Caryophyllene	--
	alpha-Humulene	--
	Nerolidol	--
	Guaiol	--
	alpha-Bisabolol	--
	Eucalyptol	--
	Caryophyllene oxide	--

C:\LabSolutions\Data\10 May 2019\1905C4L0028.4837.gcd



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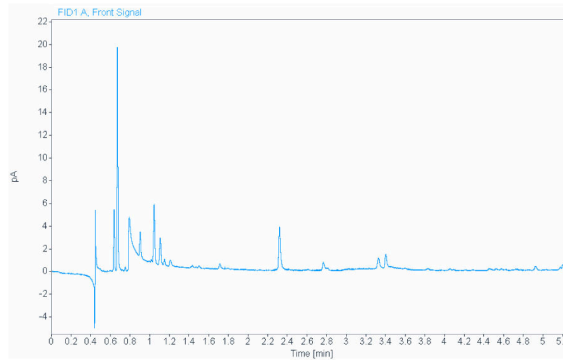
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## C4 Laboratories, LLC

Sample name: 1905C4L0028.4837  
Instrument: 7890B  
Injection date: 5/10/2019 11:59:55 AM  
Acq. method: SolventsMaster.M  
Analysis method: SolventsMaster.M  
Last changed: 5/13/2019 9:11:09 AM

Sample type: Sample  
Location: 3  
Injection: 1 of 1  
Injection volume: 1000.000  
Acq. operator: SYSTEM



Name	ppm
t-butane	0
n-butane	0
Methanol	0
Pentane	0
Ethanol	0
Acetone	0
Isopropanol	0
Acetonitrile	0
Hexane	0
THF	0
Chloroform	0
CTCL	0
Benzene	0
Heptane	0
Toluene	0
m/p-Xylene	0
O-Xylene	0



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5/13/2019 1:58:55 PM Page 1 / 1



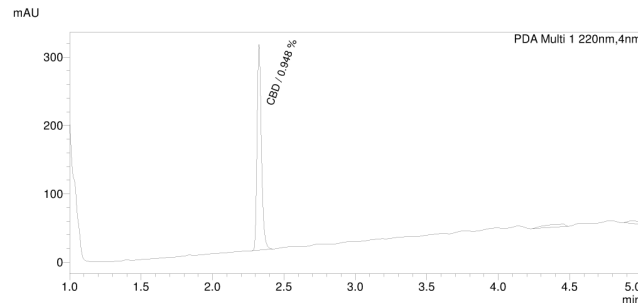
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## C4 Laboratories, LLC

Sample Name	: 1905C4L0028.4837	Sample Type	: Medible
Sample ID	: TruPotency	Acquired by	: Aaron J. Hicks
Data Filename	: 1905C4L0028.4837_002.lcd	Processed by	: Aaron J. Hicks
Method Filename	: 10 cannabinoids 1 Jan 2019.lcm		
Batch Filename	: Batch v10.lcb		
Vial #	: 1-17		
Injection Volume	: 7 ul		
Date Acquired	: 5/13/2019 11:33:40 AM		
Date Processed	: 5/13/2019 11:40:44 AM		

### Cannabinoids by HPLC



### Cannabinoids

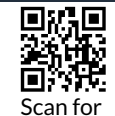
Ret. Time	Area	Conc.	Name
--	--	--	-- CBD-V
--	--	--	-- CBD-A
--	--	--	-- CBG
2.325	633059	0.948%	CBD
--	--	--	-- THC-V
--	--	--	-- CBN
--	--	--	-- THC
--	--	--	-- Δ8-THC
--	--	--	-- CBC
--	--	--	-- THC-A

C:\LabSolutions\Data\13 May 2019\1905C4L0028.4837\_002.lcd



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