



# Certificate of Analysis

Powered by Confident Cannabis  
1 of 5

## Make Sensi LLC

Scottsdale, AZ 85257  
timothy@evaluationtoday.com  
(602) 748-7324  
Lic. #0084992DAQT673840006

## Sample: 1803C4L0099.2610

Strain: Opiod 1:1 Batch 2  
Batch#: ; Batch Size: - grams  
Sample Received: 03/19/2018; Report Created: 03/22/2018; Expires: 03/22/2019

## Opiod 1:1 Batch 2

Ingestible, Tincture



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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



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Aaron Hicks  
Director of Laboratory Operations



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**708.602 mg/unit**  
Total THC

**674.966 mg/unit**  
Total CBD

**1.0** : **1.0**  
THC : CBD

## Cannabinoids

**Pass**  
Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass mg/g	Std. Dev.
THCa	3.737	ND	ND	
Δ9-THC	3.737	708.602	18.960	<div style="width: 100%; height: 10px; background-color: green;"></div>
CBD	3.737	674.966	18.060	<div style="width: 95%; height: 10px; background-color: green;"></div>
CBDa	3.737	ND	ND	
CBC	3.737	37.747	1.010	<div style="width: 5%; height: 10px; background-color: green;"></div>
CBG	3.737	15.323	0.410	<div style="width: 2%; height: 10px; background-color: green;"></div>
CBN	3.737	16.071	0.430	<div style="width: 3%; height: 10px; background-color: green;"></div>
THCV	3.737	ND	ND	
Δ8-THC	3.737	ND	ND	
CBDV	3.737	ND	ND	
<b>Total</b>		<b>1452.709</b>	<b>38.870</b>	

1 Unit = Bottle, 1 oz, 37.373523g

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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**Opiod 1:1 Batch 2**  
Ingestible, Tincture



## Residual Solvents

Analyte	Mass	Status
	PPM	
Acetone	ND	Pass
Acetonitrile	ND	Pass
Chloroform	ND	Pass
Ethanol	11698	Fail
Heptane	ND	Pass
Hexanes	ND	Pass
Isobutane	ND	Pass
Isopropanol	ND	Pass
Methanol	ND	Pass
n-Butane	ND	Pass
Toluene	ND	Pass



**Pass**  
Foreign Matter



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Opiod 1:1 Batch 2  
Ingestible, Tincture



3/22/2018 2:00:03 PM Page 1 / 1



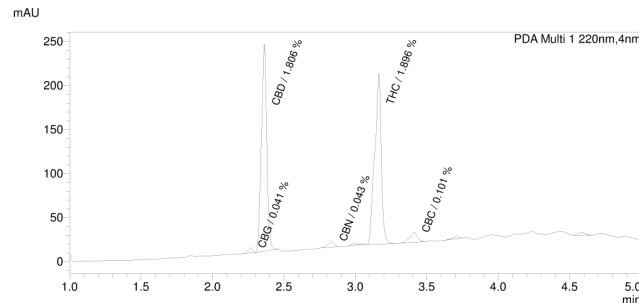
C4 Laboratories, LLC  
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Suite B202  
Mesa, AZ 85210  
www.c4lab.com

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## C4 Laboratories, LLC

Sample Name : 1803C4L0099.2610\_Opiod\_1:1\_Batch\_2  
Sample ID : Make Sensi LLC  
Data Filename : 1803C4L0099.2610\_Opiod\_1\$1\_Batch\_2\_002.lcd  
Method Filename : 10 cannabinoids 6a Mar 2018.lcm  
Batch Filename : Batch v13.lcb  
Vial # : 1-19  
Injection Volume : 5 ul  
Date Acquired : 3/22/2018 1:51:19 PM  
Date Processed : 3/22/2018 1:58:20 PM  
Sample Type : Extract  
Acquired by : Aaron J. Hicks  
Processed by : Aaron J. Hicks

### Cannabinoids by HPLC



### Cannabinoids

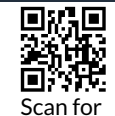
Ret. Time	Area	Conc.	Name
--	--	--	CBD-V
--	--	--	CBD-A
2.267	12668	0.041%	CBG
2.363	612034	1.806%	CBD
--	--	--	THC-V
2.836	20627	0.043%	CBN
3.164	616856	1.896%	THC
--	--	--	THC
3.413	39886	0.101%	CBC
--	--	--	THC-A

C:\LabSolutions\Data\22 Mar 2018\1803C4L0099.2610\_Opiod\_1\$1\_Batch\_2\_002.lcd



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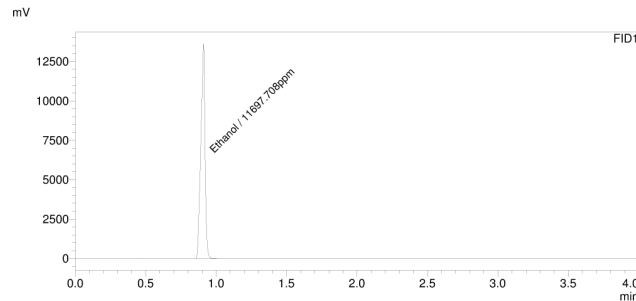
3/22/2018 10:30:54 AM Page 1 / 1

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### C4 Laboratories, LLC

Sample Name	: 1803C4L0099.2610_Opiod_1_1_Batch_2		
Sample ID	: Make Sensi LLC		
Data Filename	: 1803C4L0099.2610_Opiod_1_1_Batch_2.gcd		
Method Filename	: Solvents v1_07Mar18.gcm		
Batch Filename	: Batch v3.gcb		
Vial #	: 25	Sample Type	: Medible
Injection Volume	: 1000 uL		
Date Acquired	: 3/22/2018 2:31:23 AM	Acquired by	: Aaron J. Hicks
Date Processed	: 3/22/2018 2:51:26 AM	Processed by	: Aaron J. Hicks

#### Solvents Headspace Analysis



FID1	Solvent	Conc.
	t-butane	--
	n-butane	--
	Methanol	--
	Ethanol	11697.708 ppm
	Acetone	--
	Isopropanol	--
	Acetonitrile	--
	RT:1.508	--
	RT:1.878	--
	RT:2.124	--
	RT:2.268	--
	RT:2.932	--
	RT:3.669	--

C:\LabSolutions\Data\21 Mar 2018\1803C4L0099.2610\_Opiod\_1\_1\_Batch\_2.gcd



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