



Certificate of Analysis

Powered by Confident Cannabis
1 of 8

SagaCBD.com

Mesa, AZ 85210
kuntze81@gmail.com
(214) 324-4537
Lic. #

Sample: 1709C4L0044.4989

Strain: Tinct 500
Batch#: ; Batch Size: - grams
Sample Received: 09/12/2017; Report Created: 09/14/2017; Expires: 09/14/2018

Tincture 500

Ingestible, Tincture, Other



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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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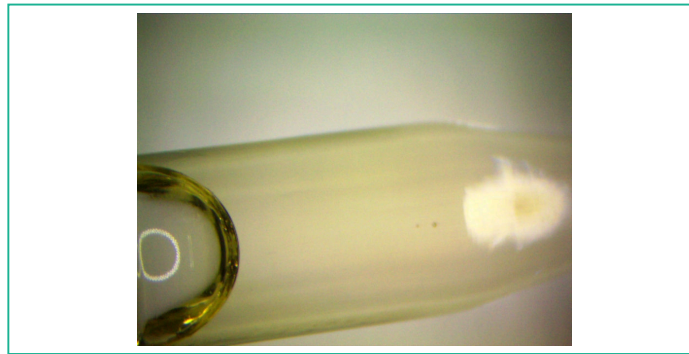
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Cannabinoids

Safety

<LOQ Total THC	17.614 mg/mL Total CBD	Not Tested Microbials	Pass Foreign Matter	Pass Solvents
-----------------------------	----------------------------------	---------------------------------	-------------------------------	-------------------------

Terpenes

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



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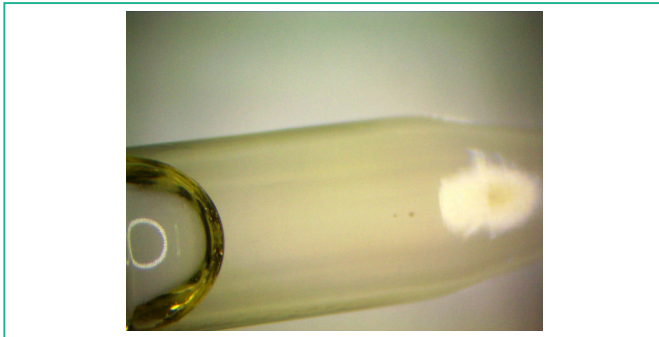
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<LOQ
Total THC

17.614 mg/mL
Total CBD

0 : 1
THC : CBD

Cannabinoids

Pass
Foreign Matter

Analyte	LOQ mg/mL	Mass mg/mL	Mass mg/g	Std. Dev.
THCa	0.096	ND	ND	
Δ9-THC	0.096	ND	ND	
CBD	0.096	17.504	18.230	
CBDa	0.096	0.125	0.130	
CBC	0.096	ND	ND	
CBG	0.096	ND	ND	
CBN	0.096	ND	ND	
THCV	0.096	ND	ND	
Δ8-THC	0.096	ND	ND	
CBDV	0.096	0.259	0.270	
Total		17.889	18.630	

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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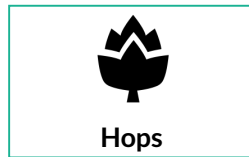
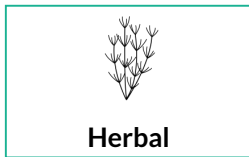
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Tincture 500
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Terpenes



Analyte	LOQ %	Mass %	Mass mg/g	
p-Cymene	0.001	0.005	0.05	
α-Pinene	0.001	0.004	0.04	
β-Myrcene	0.001	0.003	0.03	
β-Pinene	0.001	0.003	0.03	
Linalool	0.001	0.002	0.02	
α-Humulene	0.001	ND	ND	
α-Terpinene	0.001	ND	ND	
β-Caryophyllene	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	
Nerolidol	0.001	ND	ND	
Ocimene	0.001	ND	ND	
(-)-α-Bisabolol	0.001	ND	ND	
(-)-Isopulegol	0.001	ND	ND	
Terpinolene	0.001	ND	ND	

0.017%
Total Terpenes

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Tincture 500

Ingestible, Tincture, Other



Residual Solvents

Pass

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

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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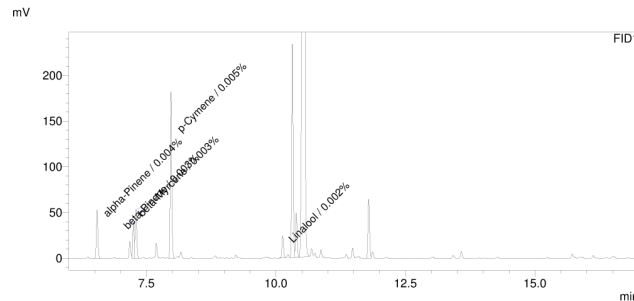
9/14/2017 10:09:37 AM Page 1 / 1

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Sample Name	: 1709C4L0044.4989_Tincture_500	Sample Type	: Medible
Sample ID	: SagaCBD.com		
Data Filename	: 1709C4L0044.4989_Tincture_501.gcd		
Method Filename	: Terpenes v1 08 Aug 2017.gcm		
Batch Filename	: Batch v2.gcb		
Vial #	: 27		
Injection Volume	: 1000 uL	Acquired by	: Aaron J. Hicks
Date Acquired	: 9/14/2017 7:28:28 AM	Processed by	: Aaron J. Hicks
Date Processed	: 9/14/2017 7:46:33 AM		

Terpenes Headspace Analysis



Terpene	Conc.
alpha-Pinene	0.004 %
Camphene	--
beta-Pinene	0.003 %
beta-Myrcene	0.003 %
delta-3-Carene	--
alpha-Terpinene	--
p-Cymene	0.005 %
d-Limonene	--
Ocimene	--
gamma-Terpinene	--
Terpinolene	--
Linalool	0.002 %
Isopulegol	--
Geraniol	--
beta-Caryophyllene	--
alpha-Humulene	--
Nerolidol	--
Guaiol	--
alpha-Bisabolol	--
Eucalyptol	--
Caryophyllene oxide	--

C:\LabSolutions\Data\13 Sep 2017\1709C4L0044.4989_Tincture_501.gcd



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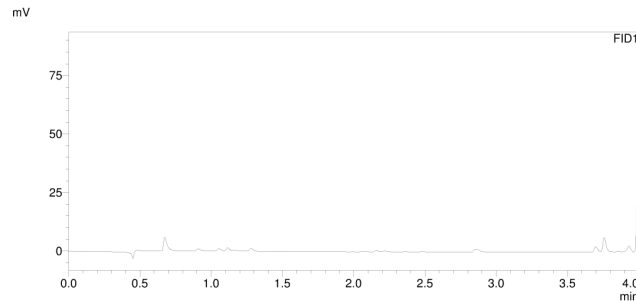
9/14/2017 9:44:57 AM Page 1 / 1

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Sample Name	: 1709C4L0044.4989_Tincture_500	Sample Type	: Medible
Sample ID	: SagaCBD.com	Acquired by	: Aaron J. Hicks
Data Filename	: 1709C4L0044.4989_Tincture_500.gcd	Processed by	: Aaron J. Hicks
Method Filename	: Solvents v1 02 Aug 2017.gcm		
Batch Filename	: Batch v1.gcb		
Vial #	: 8		
Injection Volume	: 1000 uL		
Date Acquired	: 9/13/2017 10:00:38 PM		
Date Processed	: 9/13/2017 10:20:42 PM		

Solvents Headspace Analysis



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

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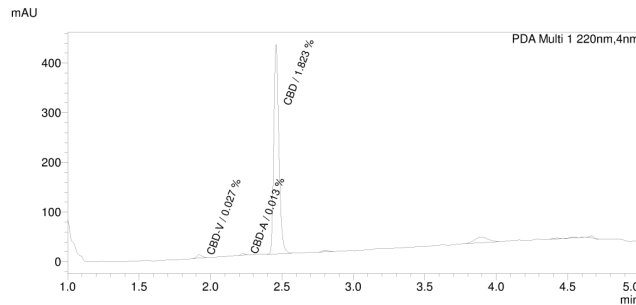
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Sample Name : 1709C4L0044.4989_Tincture_500
Sample ID : Saga CBD
Data Filename : 1709C4L0044.4989_Tincture_500_003.lcd
Method Filename : 10 cannabinoids 7 Jun 2017.lcm
Batch Filename : Batch v21.lcb
Vial # : 1-53
Injection Volume : 10 uL
Date Acquired : 9/13/2017 6:47:08 PM
Date Processed : 9/13/2017 6:54:10 PM
Sample Type : Medible
Acquired by : Aaron J. Hicks
Processed by : Aaron J. Hicks

Cannabinoids by HPLC



Cannabinoids

Ret. Time	Area	Conc.	Name
1.922	17292	0.027%	CBD-V
2.227	6608	0.013%	CBD-A
--	--	--	CBG
2.459	1056054	1.823%	CBD
--	--	--	THC-V
--	--	--	CBN
--	--	--	THC
--	--	--	delta-THC
--	--	--	CBG
--	--	--	THC-A

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