



# Certificate of Analysis

Powered by Confident Cannabis  
1 of 6

## Clean Med CBD

PO Box 25006  
Phoenix, AZ 85002

(888) 839-2578  
Lic. #

Sample: 1903C4L0012.2306

Strain: NF 2

Lot#: ; Batch#: ; Batch Size: - grams

Sample Received: 03/04/2019; Report Created: 03/04/2019; Expires: 03/04/2020

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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



1930 S. Alma School Rd.  
Mesa, AZ  
(480) 219-6460  
<http://www.c4lab.com>  
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Aaron Hicks  
Director of Laboratory Operations



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<LOQ  
Total THC

1,069.085  
mg/unit  
Total CBD

0 : 1  
THC : CBD

## Cannabinoids

Pass  
Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass %	Std. Dev.
THCa	2.890	ND	ND	
Δ9-THC	2.890	ND	ND	
CBD	2.890	1069.085	3.6990	
CBDa	2.890	ND	ND	
CBC	2.890	ND	ND	
CBG	2.890	ND	ND	
CBN	2.890	ND	ND	
THCV	2.890	ND	ND	
Δ8-THC	2.890	ND	ND	
CBDV	2.890	ND	ND	
<b>Total</b>		<b>1069.085</b>	<b>3.6990</b>	

1 Unit = Bottle, 30 mL, 28.902g

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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## Residual Solvents

Analyte	Mass	Status
	PPM	
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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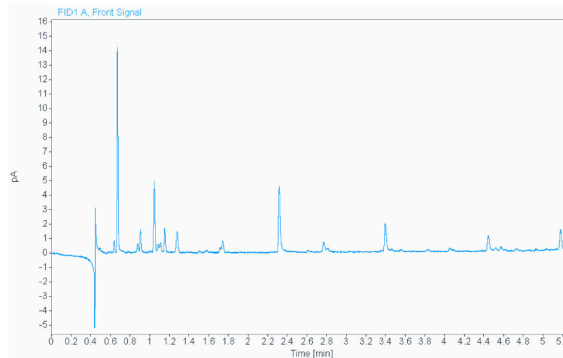
C4 Laboratories, LLC  
1930 S. Alma School Rd  
Suite D206  
Mesa, AZ 85210  
www.c4lab.com

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## C4 Laboratories, LLC

**Sample name:** 1902C4L0162.2094\_NF\_2  
**Instrument:** 7890B  
**Injection date:** 2/28/2019 5:05:16 PM  
**Acq. method:** SolventsMaster.M  
**Analysis method:** SolventsMaster.M  
**Last changed:** 3/1/2019 10:22:18 AM

**Sample type:** Sample  
**Location:** 17  
**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

Sol Report 18.rdl [Rev. 57]

Printed: 3/1/2019 10:22:21 AM

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## NF 2

Ingestible, Tincture



2/13/2019 9:23:38 AM Page 1 / 1



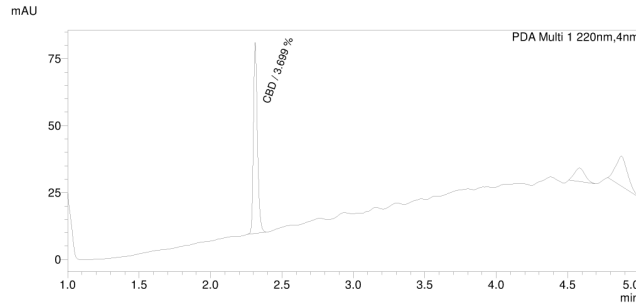
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### C4 Laboratories, LLC

Sample Name	: 1902C4L0029.1368_NF_2		
Sample ID	: Clean Med CBD		
Data Filename	: 1902C4L0029.1368_NF_2_002.lcd		
Method Filename	: 10 cannabinoids 1 Jan 2019.lcm		
Batch Filename	: Batch v21.lcb		
Vial #	: 2-5	Sample Type	: Medible
Injection Volume	: 5 uL		
Date Acquired	: 2/12/2019 5:57:09 PM	Acquired by	: Aaron J. Hicks
Date Processed	: 2/12/2019 6:04:11 PM	Processed by	: Aaron J. Hicks

### Cannabinoids by HPLC



### Cannabinoids

Ret. Time	Area	Conc.	Name
--	--	--	-- CBD-V
--	--	--	-- CBD-A
--	--	--	-- CBG
2.313	13889	3.699%	CBD
--	--	--	-- THC-V
--	--	--	-- CBN
--	--	--	-- THC
--	--	--	-- Δ8-THC
--	--	--	-- CBC
--	--	--	-- THC-A

C:\LabSolutions\Data\12 Feb 2019\1902C4L0029.1368\_NF\_2\_002.lcd



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