



# Certificate of Analysis

Powered by Confident Cannabis  
1 of 6

## Trew Balance

Payson, AZ 85541  
sheelah@trewbalance.org  
(844) 873-9222  
Lic. #

## Sample: 1903C4L0004.2269

Strain: Five Golden Rings - 500mg  
Lot#: ; Batch#: 20120191; Batch Size: - grams  
Sample Received: 03/06/2019; Report Created: 03/11/2019; Expires: 03/11/2020

## Five Golden Rings - 500mg

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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



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Aaron Hicks  
Director of Laboratory Operations



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## Trew Balance

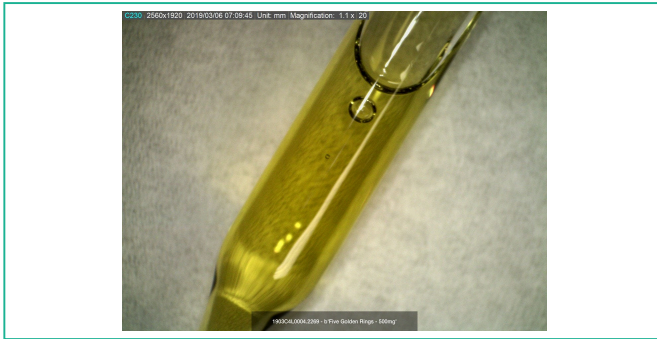
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Ingestible, Tincture



<LOQ  
Total THC

551.126 mg/unit  
Total CBD

0 : 1  
THC : CBD

## Cannabinoids

Pass  
Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass %	Std. Dev.
THCa	5.578	ND	ND	
Δ9-THC	5.578	ND	ND	
CBD	5.578	551.126	0.9880	
CBDa	5.578	ND	ND	
CBC	5.578	ND	ND	
CBG	5.578	ND	ND	
CBN	5.578	ND	ND	
THCV	5.578	ND	ND	
Δ8-THC	5.578	ND	ND	
CBDV	5.578	ND	ND	
<b>Total</b>		<b>551.126</b>	<b>0.9880</b>	

1 Unit = Bottle, 2 fl oz, 55.782g

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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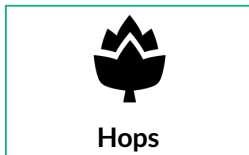
Sample: 1903C4L0004.2269

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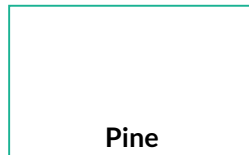
## Terpenes



Hops



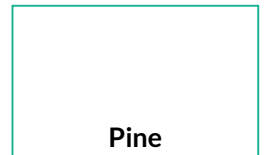
Pine



Pine



Pine



Pine

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Myrcene	0.001	0.007	0.07
α-Pinene	0.001	0.006	0.06
α-Humulene	0.001	ND	ND
α-Terpinene	0.001	ND	ND
β-Caryophyllene	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

0.013%  
Total Terpenes

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Ingestible, Tincture



Pass

Foreign Matter



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Ingestible, Tincture



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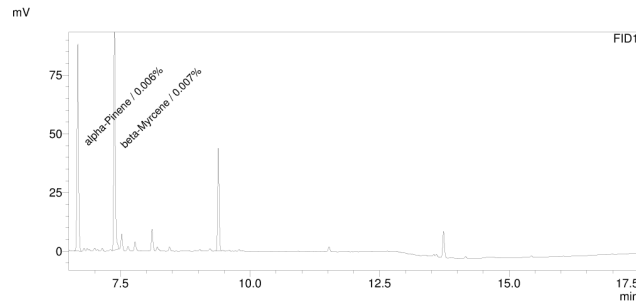
3/11/2019 9:23:30 AM Page 1 / 1

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## C4 Laboratories, LLC

Sample Name : 1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg  
Sample ID : Trew Balance  
Data Filename : 1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg.gcd  
Method Filename : Terpenes v5 14Jan19.gcm  
Batch Filename : Batch v1.gcb  
Vial # : 3  
Injection Volume : 1000 uL  
Date Acquired : 3/8/2019 3:38:06 PM  
Date Processed : 3/8/2019 3:58:10 PM  
Sample Type : Medible  
Acquired by : Zach Hanes  
Processed by : Zach Hanes

### Terpenes Headspace Analysis



Terpene	Conc.
alpha-Pinene	0.006 %
Camphene	--
beta-Pinene	--
beta-Myrcene	0.007 %
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\08 Mar 2019\1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg.gcd



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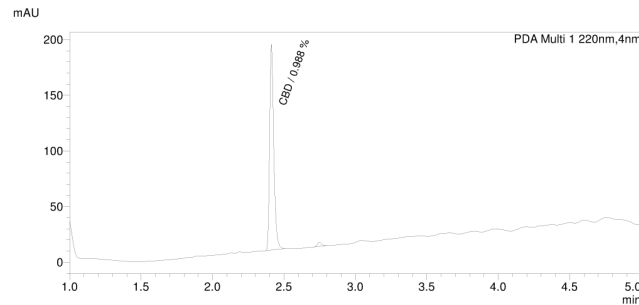
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Sample Name : 1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg  
Sample ID : Trew Balance  
Data Filename : 1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg\_001.lcd  
Method Filename : 10\_cannabinoids\_1\_Jan\_2019.lcm  
Batch Filename : Batch v2.lcb  
Vial # : 1-1  
Injection Volume : 5 uL  
Date Acquired : 3/11/2019 8:55:44 AM  
Date Processed : 3/11/2019 9:02:45 AM  
Sample Type : Medible  
Acquired by : Aaron J. Hicks  
Processed by : Aaron J. Hicks

### Cannabinoids by HPLC



### Cannabinoids

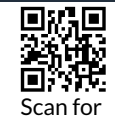
Ret. Time	Area	Conc.	Name
--	--	--	-- CBD-V
--	--	--	-- CBD-A
--	--	--	-- CBG
2.413	367327	0.988%	CBD
--	--	--	-- THC-V
--	--	--	-- CBN
--	--	--	-- THC
--	--	--	-- Δ8-THC
--	--	--	-- CBC
--	--	--	-- THC-A

C:\LabSolutions\Data\11 Mar 2019\1903C4L0004.2269\_Five\_Golden\_Rings\_-\_500mg\_001.lcd



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