



Certificate of Analysis

Powered by Confident Cannabis
1 of 6

Trew Balance

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

Sample: 1903C4L0004.2271

Strain: Five Golden Rings Jr. - 250mg
Lot#: ; Batch#: 20120192; Batch Size: - grams
Sample Received: 03/06/2019; Report Created: 03/11/2019; Expires: 03/11/2020

Five Golden Rings Jr. - 250mg

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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



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Aaron Hicks
Director of Laboratory Operations



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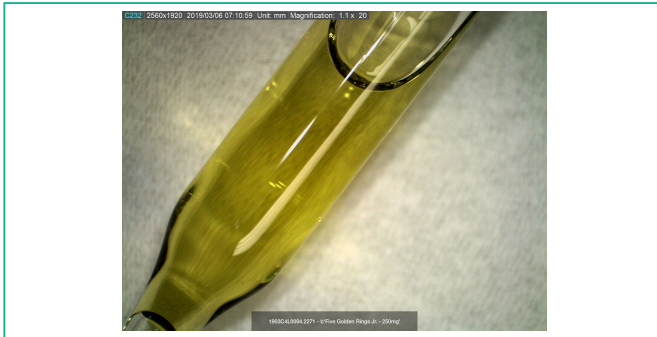
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<LOQ	245.341 mg/unit
Total THC	Total CBD
0	1
THC	CBD

Cannabinoids

Pass
Foreign Matter

Analyte	LOQ mg/unit	Mass mg/unit	Mass %	Std. Dev.
THCa	2.798	ND	ND	
Δ9-THC	2.798	ND	ND	
CBD	2.798	245.341	0.8770	
CBDa	2.798	ND	ND	
CBC	2.798	ND	ND	
CBG	2.798	ND	ND	
CBN	2.798	ND	ND	
THCV	2.798	ND	ND	
Δ8-THC	2.798	ND	ND	
CBDV	2.798	ND	ND	
Total		245.341	0.8770	

1 Unit = Bottle, 1 fl oz, 27.975g

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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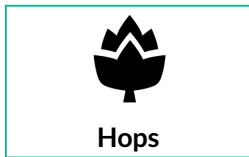
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Ingestible, Tincture



Terpenes



Hops



Pine



Pine



Pine



Pine

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Myrcene	0.001	0.017	0.17
α-Pinene	0.001	0.011	0.11
α-Humulene	0.001	ND	ND
α-Terpinene	0.001	ND	ND
β-Caryophyllene	0.001	<LOQ	<LOQ
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	<LOQ	<LOQ
Terpinolene	0.001	ND	ND

0.028%
Total Terpenes

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Five Golden Rings Jr. - 250mg
Ingestible, Tincture



Pass

Foreign Matter



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Five Golden Rings Jr. - 250mg

Ingestible, Tincture



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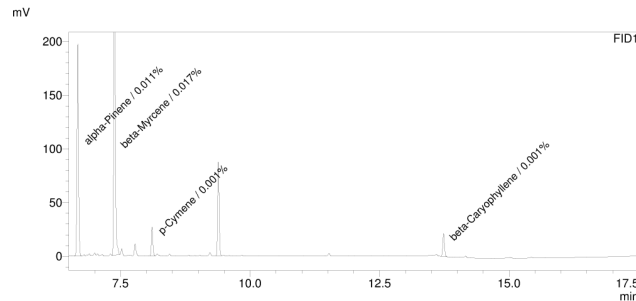
3/11/2019 9:26:12 AM Page 1 / 1

"Patient protection through true science"

C4 Laboratories, LLC

Sample Name	: 1903C4L0004.2271_Five_Golden_Rings_Jr._.250mg		
Sample ID	: Trew Balance		
Data Filename	: 1903C4L0004.2271_Five_Golden_Rings_Jr._.250mg.gcd		
Method Filename	: Terpenes v5 14Jan19.gcm		
Batch Filename	: Batch v1.gcb		
Vial #	: 5	Sample Type	: Medible
Injection Volume	: 1000 uL		
Date Acquired	: 3/8/2019 4:56:51 PM	Acquired by	: Zach Hanes
Date Processed	: 3/8/2019 5:16:54 PM	Processed by	: Zach Hanes

Terpenes Headspace Analysis



FID1	Terpene	Conc.
	alpha-Pinene	0.011 %
	Camphene	--
	beta-Pinene	--
	beta-Myrcene	0.017 %
	delta-3-Carene	--
	alpha-Terpinene	--
	p-Cymene	0.001 %
	d-Limonene	--
	Ocimene	--
	gamma-Terpinene	--
	Terpinolene	--
	Linalool	--
	Isopulegol	--
	Geraniol	--
	beta-Caryophyllene	0.001 %
	alpha-Humulene	--
	Nerolidol	--
	Guaiol	--
	alpha-Bisabolol	--
	Eucalyptol	--
	Caryophyllene oxide	--

C:\LabSolutions\Data\08 Mar 2019\1903C4L0004.2271_Five_Golden_Rings_Jr._.250mg.gcd



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Five Golden Rings Jr. - 250mg Ingestible, Tincture



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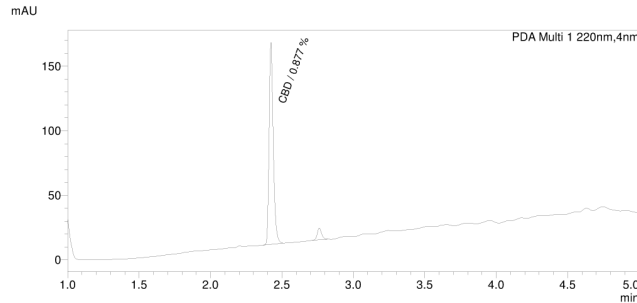
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Sample Name : 1903C4L0004.2271_Five_Golden_Rings_Jr._.250mg
Sample ID : Trew Balance
Data Filename : 1903C4L0004.2271_Five_Golden_Rings_Jr._.250mg_003.lcd
Method Filename : 10_cannabinoids_1_Jan_2019.lcm
Batch Filename : Batch v2.lcb
Vial # : 1-3
Injection Volume : 5 uL
Date Acquired : 3/11/2019 9:10:31 AM
Date Processed : 3/11/2019 9:17:33 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
2.423	313019	0.877%	CBD
--	--	--	-- THC-V
--	--	--	-- CBN
--	--	--	-- THC
--	--	--	-- 8-THC
--	--	--	-- CBC
--	--	--	-- THC-A

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