

Certificate ID: **47914**  
 Client Sample ID: **TONIC Batch 0022**  
 Lot Number:  
 Matrix: **Tincture - MCT Oil**

Received: **2/6/19**



**Brikhouse Industries, LLC**  
**3560 Sarah Drive**  
**Wantagh, NY 11793**  
**Attn: Brittany Carbone**

Authorization: <b>Jon Podgorni, Lab Manager</b>	Signature: <i>Jon Podgorni</i>	Date: <b>2/22/2019</b>
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2005. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]**      Analyst: *LG*      Test Date: *2/11/2019*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

**47914-CN**

ID	Weight %	Conc.			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	11.52 wt %	108.29 mg/mL			
CBDV	0.06 wt %	0.58 mg/mL			
CBG	ND	ND			
CBC	0.01 wt %	0.11 mg/mL			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
<b>Total</b>	<b>11.59 wt%</b>	<b>108.99 mg/mL</b>	<b>0%</b>	<b>Cannabinoids (wt%)</b>	<b>11.5%</b>
Max THC	-	-			
Max CBD	11.52 wt%	108.29 mg/mL			

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LLD)

**EA: Elemental Analysis [WI-10-13]**

Analyst: JFD

Test Date: 2/12/2019

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**47914-EA**

Symbol	Metal	Conc. <sup>1</sup>	MDL	Limits <sup>2</sup>	Status
Al	Aluminum	197 ug/kg	5 ug/kg	-	
As	Arsenic	ND	4 ug/kg	150 ug/kg	PASS
Cd	Cadmium	8 ug/kg	1 ug/kg	150 ug/kg	PASS
Ca	Calcium	1,737 ug/kg	500 ug/kg	-	
Cr	Chromium	ND	5 ug/kg	2500 ug/kg	PASS
Co	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	10000 ug/kg	PASS
Fe	Iron	674 ug/kg	5 ug/kg	-	
Pb	Lead	23 ug/kg	2 ug/kg	500 ug/kg	PASS
Mg	Magnesium	ND	500 ug/kg	-	
Mn	Manganese	ND	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	150 ug/kg	PASS
Mo	Molybdenum	ND	5000 ug/kg	1000 ug/kg	PASS
Ni	Nickel	ND	500 ug/kg	150 ug/kg	PASS
P	Phosphorus	713 ug/kg	500 ug/kg	-	
K	Potassium	1,381 ug/kg	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	884 ug/kg	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	-	
Zn	Zinc	4,285 ug/kg	5 ug/kg	-	

1) ND = None detected to the Method Detection Limit (MDL)

2) USP recommended maximum daily limits for inhalational drug product.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: MM

Test Date: 2/8/2019

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**47914-MB1**

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

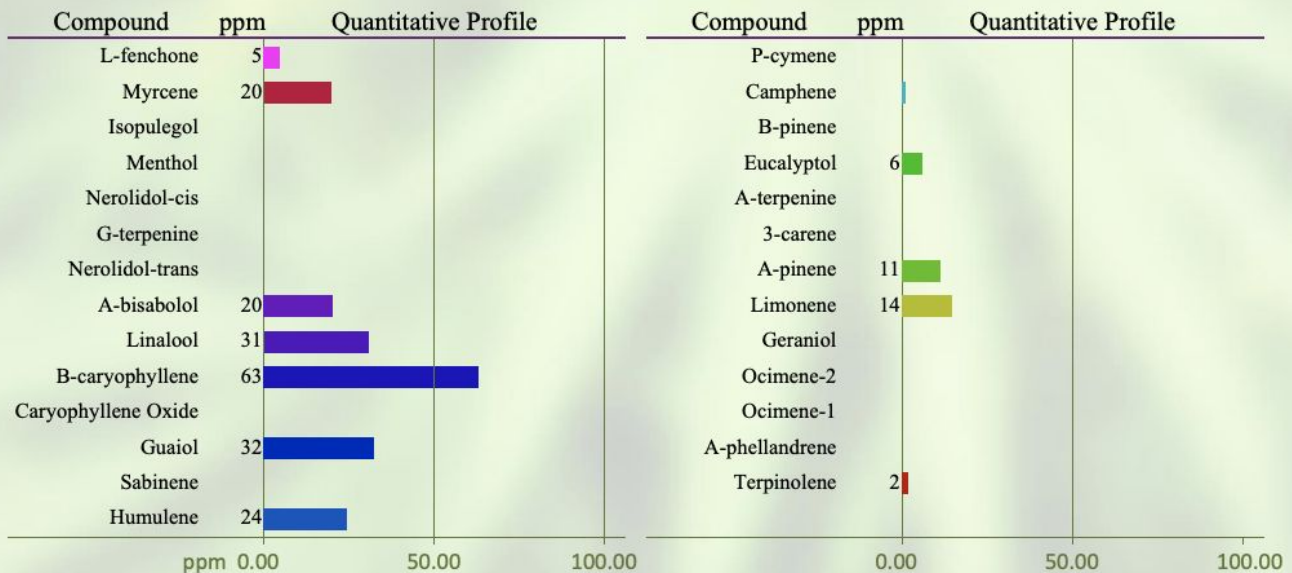
**TP: Terpenes Profile [WI-10-08]**

Analyst: CMA

Test Date: 2/12/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**47914-TP**



Total Terpene: <0.1 wt%

\* Indicates semi-qualitative calculation based on recorded peak areas.

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**47914-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	2	PASS
Isobutane	75-28-5	ND	1,000 ppm	2	PASS
Butane	106-97-8	ND	1,000 ppm	2	PASS
Methanol	67-56-1	ND	3,000 ppm	20	PASS
Ethanol	64-17-5	ND	5,000 ppm	20	PASS
Acetone	67-64-1	ND	1,000 ppm	20	PASS
Isopropanol	67-63-0	ND	5,000 ppm	20	PASS
Acetonitrile	75-05-8	ND	410 ppm	20	PASS
Hexane	110-54-3	ND	290 ppm	20	PASS
Heptane	142-82-5	ND	5,000 ppm	20	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

**END OF REPORT**