



100 south 5th street, suite 1085
minneapolis, minnesota 55402

1.800.665.HEMP
www.manitobaharvest.com

CERTIFICATE OF ANALYSIS

Product:	Broad Spectrum Hemp Extract Tincture – Unflavored
Lot No:	190514
Source Lot No:	E19012
SKU#:	6120
Date of Manufacture:	May 07 th , 2019
Best Before Date:	May 07 th , 2021
Ingredients:	Broad Spectrum Hemp Extract (<i>Cannabis sativa</i>) (aerial parts). Other ingredients: Organic Coconut Oil MCT.

Test	Analytical Result	Specification	Testing Method
PROFILE			
CBD (total)	10 mg/ml	8-12 mg/ml	HPLC (LOQ <100 ppm)
CBD	1.07 wt. %	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBDA	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBC	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBCA	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBG	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBGA	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
CBN	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
Δ9 THC (total)	ND	< 0.01%	Calculated
Δ9 THC	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
THCA	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
TERPENES			
Total Terpenes	< 0.1 wt. %	<i>Report only</i>	HS-GC
MICROBIOLOGICAL			
Standard Plate Count	< 10 cfu/g	< 10,000 cfu/g	AOAC 990.12
Total Coliforms	< 10 cfu/g	< 100 cfu/g	AOAC 991.14
Yeast & Mold	< 20 cfu/g	< 1,000 cfu/g	AOAC 2014.05
<i>E. coli</i>	< 10 cfu/g	< 10 cfu/g	AOAC 991.14
<i>Salmonella</i>	Negative	Negative in 25g	AOAC RI 050701



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MYCOTOXINS			
Total Aflatoxin	< 2 ppb	< 20 ppb	In accordance with the requirements of ISO/IEC 17025
Total Ochratoxin	< 3 ppb	< 20 ppb	
CHEMICAL			
Residual Solvents	ND	No detection	HS-GC
Pesticides	ND	No detection	LC/MS/MS
Lead	< 0.002 ppm	< 0.5 ppm	In accordance with the requirements of ISO/IEC 17025
Arsenic	< 0.004 ppm	< 0.2 ppm	
Cadmium	< 0.001 ppm	< 0.1 ppm	
Mercury	< 0.002 ppm	< 0.1 ppm	
Gluten	< 5 ppm	< 20 ppm	AOAC 991.19
ORGANOLEPTIC			
Appearance	Conforms	Liquid	Visual
Color	Conforms	Yellow to Amber	Visual
Odor	Conforms	Characteristic	Olfactory
PHYSICAL DOSAGE			
Fill Volume	31 ml	≥ 30 ml	QCU-90-005
Density	0.97 g/ml	0.96 – 0.98 g/ml	AP-CHE-015

* ND = Not detected.

Ashely Linden

Ashely Linden
 Director, Quality

6/7/2019

Date