



100 south 5<sup>th</sup> street, suite 1085  
minneapolis, minnesota 55402

1.800.665.HEMP  
www.manitobaharvest.com

## CERTIFICATE OF ANALYSIS

Product:	<b>Broad Spectrum Hemp Extract Tincture – Peppermint</b>
Lot No:	<b>190522</b>
Source Lot No:	E19013
SKU#:	6119
Date of Manufacture:	May 07 <sup>th</sup> , 2019
Best Before Date:	May 07 <sup>th</sup> , 2021
Ingredients:	Broad Spectrum Hemp Extract ( <i>Cannabis Sativa</i> ) (aerial parts), Other ingredients: Organic Coconut Oil MCT, Organic Peppermint Oil.

Test	Analytical Result	Specification	Testing Method
<b>PROFILE</b>			
<b>CBD (total)</b>	<b>10 mg/ml</b>	8-12 mg/ml	HPLC (LOQ <100 ppm)
CBD	1.05 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)
<b>Δ9 THC (total)</b>	<b>ND</b>	< 0.01%	Calculated
Δ9 THC	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
THCA	ND	<i>Report only</i>	HPLC (LOQ <100 ppm)
<b>TERPENES</b>			
Total Terpenes	0.3 wt. %	<i>Report only</i>	HS-GC or GS-MS
<b>MICROBIOLOGICAL</b>			
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	Mint	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-005

\* ND = Not detected.

*Ashley Linden*

Ashley Linden  
 Director, Quality

6/7/2019

Date