



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

1.800.665.HEMP  
www.manitobaharvest.com

CERTIFICATE OF ANALYSIS

Product: **Broad Spectrum Hemp Extract (BSHE) 60ct Vegan Soft Gel**

Lot No: **190923**

Source Lot No: H19013

SKU#: 6118

Date of Manufacture: August 13, 2019

Best Before Date: August 13, 2021

Ingredients: Broad Spectrum Hemp Extract (*Cannabis Sativa*) (aerial parts), Organic Hemp Seed Oil, Modified corn starch, Glycerin, Carrageenan, Purified water

Test	Analytical Result	Specification	Testing Method
<b>PROFILE</b>			
<b>CBD (total)</b>	<b>14.62 mg/Soft gel</b>	12-18 mg/soft gel	HPLC * (LOQ <50 ppm)
CBD	<b>4.027 %</b>	Report only	HPLC * (LOQ <50 ppm)
CBDA	<b>&lt; LOQ</b>	Report only	HPLC * (LOQ <50 ppm)
CBC	<b>0.009 %</b>	Report only	HPLC * (LOQ <50 ppm)
CBCA	<b>ND</b>	Report only	HPLC * (LOQ <50 ppm)
CBG	<b>ND</b>	Report only	HPLC * (LOQ <50 ppm)
CBGA	<b>ND</b>	Report only	HPLC * (LOQ <50 ppm)
CBN	<b>ND</b>	Report only	HPLC * (LOQ <50 ppm)
<b>Δ9 THC (total)</b>	<b>0.005 %</b>	< 0.01%	Calculated *
Δ9 THC	<b>0.005 %</b>	Report only	HPLC * (LOQ <50 ppm)
THCA	<b>ND</b>	Report only	HPLC * (LOQ <50 ppm)
<b>TERPENES</b>			
(-)-alpha-Bisabolol	<b>55 ppm</b>	Report only	GC-MS*
Camphene	<b>&lt; 10 ppm</b>	Report only	
(1S)-(+)-3-Carene	<b>&lt; 10 ppm</b>	Report only	
beta-Caryophyllene	<b>&lt; 10 ppm</b>	Report only	
p-Cymene	<b>&lt; 10 ppm</b>	Report only	
Eucalyptol	<b>&lt; 10 ppm</b>	Report only	



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alpha-Humulene (alpha-Caryophyllene)	< 10 ppm	Report only	
(-)-Isopulegol	< 10 ppm	Report only	
(R)-(+)-Limonene	< 10 ppm	Report only	
Linalool	< 10 ppm	Report only	
beta-Myrcene	< 10 ppm	Report only	
(E)-b-Ocimene	< 6.0 ppm	Report only	
(Z)-b-Ocimene	< 3.0 ppm	Report only	
alpha-Pinene	< 10 ppm	Report only	
beta-Pinene	< 10 ppm	Report only	
alpha-Terpinene	< 10 ppm	Report only	
gamma-Terpinene	< 10 ppm	Report only	
Terpinolene	< 10 ppm	Report only	
<b>MICROBIOLOGICAL</b>			
Standard Plate Count	< 10 cfu/g	< 10,000 cfu/g	AOAC 966.23 *
Total Coliforms	< 10 cfu/g	< 100 cfu/g	AOAC 991.14 *
Yeast & Mold	< 10 cfu/g	< 1,000 cfu/g	BAM Chapter 18 *
<i>E. coli</i>	< 10 cfu/g	< 10 cfu/g	AOAC 991.14 *
<i>Salmonella</i>	<b>Negative</b>	Negative in 25g	AOAC 2004.03 *
<b>MYCOTOXINS</b>			
Aflatoxin B1	< 0.5 ppb	< 20 ppb	UHPLC-MS/MS *
Aflatoxin B2	< 0.5 ppb	< 20 ppb	
Aflatoxin G1	< 0.5 ppb	< 20 ppb	
Aflatoxin G2	< 0.5 ppb	< 20 ppb	
Ochratoxin A	< 1.0 ppb	Report only	
<b>CHEMICAL</b>			
Residual Solvents	<b>ND</b>	No detection	USP <467> *
Pesticides	<b>ND</b>	No detection	LC/MS/MS AOAC 2007.01 *
Lead	< 0.005 ppm	< 0.5 ppm	AOAC 993.14 *
Arsenic	< 0.010 ppm	< 0.2 ppm	
Cadmium	< 0.005 ppm	< 0.1 ppm	
Mercury	< 0.005 ppm	< 0.1 ppm	



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Gluten	<b>&lt; 3 ppm</b>	< 20 ppm	AOAC 2012.01 *
<b>ORGANOLEPTIC</b>			
Appearance	<b>Conforms</b>	Soft gel	Visual
Size / Shape	<b>Conforms</b>	7.5 Oval	Visual
Gel color	<b>Conforms</b>	Clear	Visual
Fill color	<b>Conforms</b>	Green	Visual
<b>PHYSICAL DOSAGE</b>			
Average fill weight	<b>363 mg</b>	342-378 mg/sg	LAB-50-029
Average gross weight	<b>618 mg</b>	567-692 mg/sg	LAB-50-029
Rupture time	<b>10 minutes</b>	≤ 15 mins	QCU-50-013

ND = Not detected.

\* Tested at ISO 17025:2005 accredited 3<sup>rd</sup> Party Laboratory: Eurofins Bidiagnostics.

A handwritten signature in black ink, appearing to read "Aaron Cassels".

Aaron Cassels  
 Quality Control Coordinator

October 25, 2019  
 Date