



100 south 5th 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:	190506
Source Lot No:	C19058
SKU#:	6118
Date of Manufacture:	March 26 th , 2019
Best Before Date:	March 26 th , 2021
Ingredients:	Broad Spectrum Hemp Extract (<i>Cannabis Sativa</i>) (aerial parts), Organic Hemp Seed Oil, Modified corn starch, Glycerin, Carrageenan, Purified water

Test	Analytical Result	Specification	Testing Method
PROFILE			
CBD (total)	14 mg/Soft gel	12-18 mg/soft gel	HPLC (LOQ <50 ppm)
CBD	4.030 %	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBDA	0.008 %	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBC	0.012 %	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBCA	ND	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBG	< LOQ	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBGA	ND	<i>Report only</i>	HPLC (LOQ <50 ppm)
CBN	ND	<i>Report only</i>	HPLC (LOQ <50 ppm)
Δ9 THC (total)	0.005 %	< 0.01%	Calculated
Δ9 THC	0.005 %	<i>Report only</i>	HPLC (LOQ <50 ppm)
THCA	ND	<i>Report only</i>	HPLC (LOQ <50 ppm)
TERPENES			
(-)-alpha-Bisabolol	61 mg/100g	<i>Report only</i>	HS-GC or GS-MS
Camphene	< 1.0 mg/100g	<i>Report only</i>	HS-GC or GS-MS
(1S)-(+)-3-Carene	< 1.0 mg/100g	<i>Report only</i>	HS-GC or GS-MS
beta-Caryophyllene	19 mg/100g	<i>Report only</i>	HS-GC or GS-MS
p-Cymene	< 1.0 mg/100g	<i>Report only</i>	HS-GC or GS-MS
Eucalyptol	2.8 mg/100g	<i>Report only</i>	HS-GC or GS-MS



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alpha-Humulene (alpha-Caryophyllene)	5.7 mg/100g	Report only	HS-GC or GS-MS
(-)-Isopulegol	< 1.0 mg/100g	Report only	HS-GC or GS-MS
(R)-(+)-Limonene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
Linalool	< 1.0 mg/100g	Report only	HS-GC or GS-MS
beta-Myrcene	1.3 mg/100g	Report only	HS-GC or GS-MS
(E)-b-Ocimene	< 0.60 mg/100g	Report only	HS-GC or GS-MS
(Z)-b-Ocimene	< 0.30 mg/100g	Report only	HS-GC or GS-MS
alpha-Pinene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
beta-Pinene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
alpha-Terpinene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
gamma-Terpinene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
Terpinolene	< 1.0 mg/100g	Report only	HS-GC or GS-MS
MICROBIOLOGICAL			
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	< 20 cfu/g	< 1,000 cfu/g	FDA BAM Chapter 18
<i>E. coli</i>	< 10 cfu/g	< 10 cfu/g	AOAC 991.14
<i>Salmonella</i>	Negative	Negative in 25g	AOAC 2004.03
MYCOTOXINS			
Aflatoxin	< 20 ppb	< 20 ppb	Calculated
Aflatoxin B1	< 0.5 ppb	Report only	UHPLC-MS/MS
Aflatoxin B2	< 0.5 ppb	Report only	UHPLC-MS/MS
Aflatoxin G1	< 0.5 ppb	Report only	UHPLC-MS/MS
Aflatoxin G2	< 0.5 ppb	Report only	UHPLC-MS/MS
Aflatoxin M1	< 0.5 ppb	Report only	UHPLC-MS/MS
Aflatoxin M2	< 0.5 ppb	Report only	UHPLC-MS/MS
Deoxynivalenol	< 100 ppb	Report only	UHPLC-MS/MS
T-2 Toxin	< 10 ppb	Report only	UHPLC-MS/MS
HT-2 Toxin	< 100 ppb	Report only	UHPLC-MS/MS
Fumonisin B1	< 25 ppb	Report only	UHPLC-MS/MS
Fumonisin B2	< 25 ppb	Report only	UHPLC-MS/MS
Ochratoxin A	< 1 ppb	Report only	UHPLC-MS/MS
Zearalenone	< 30 ppb	Report only	UHPLC-MS/MS



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CHEMICAL			
Residual Solvents	ND	No detection	USP <467>
Pesticides	ND	No detection	AOAC 2007.01
Lead	0.002 ppm	< 0.5 ppm	ICP-MS/AOAC 993.14
Arsenic	< 0.0009 ppm	< 0.2 ppm	ICP-MS/AOAC 993.14
Cadmium	< 0.002 ppm	< 0.1 ppm	ICP-MS/AOAC 993.14
Mercury	< 0.002 ppm	< 0.1 ppm	ICP-MS/AOAC 993.14
Gluten	< 3 ppm	< 20 ppm	ELISA
ORGANOLEPTIC			
Appearance	Conforms	Soft gel	Visual
Size / Shape	Conforms	7.5 Oval	Visual
Gel color	Conforms	Clear	Visual
Fill color	Conforms	Green	Visual
PHYSICAL DOSAGE			
Average fill weight	355 mg	342-378 mg/sg	LAB-50-029
Average gross weight	578 mg	567-692 mg/sg	LAB-50-029
Rupture time	2 minutes	≤ 15 mins	QCU-50-013

*ND = Not detected.

Eunice

Eunice Sun
 QC Technician

May 30th, 2019

Date