



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) 30ct Vegan Soft Gel |
| Lot No: | 190923 |
| Source Lot No: | H19013 |
| SKU#: | 6117 |
| Date of Manufacture: | August 13, 2019 |
| Best Before Date | August 13, 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) | 14.62 mg/Soft gel | 12-18 mg/soft gel | HPLC * (LOQ <50 ppm) |
| CBD | 4.027 % | <i>Report only</i> | HPLC * (LOQ <50 ppm) |
| CBDA | < LOQ | <i>Report only</i> | HPLC * (LOQ <50 ppm) |
| CBC | 0.009 % | <i>Report only</i> | HPLC * (LOQ <50 ppm) |
| CBCA | ND | <i>Report only</i> | HPLC * (LOQ <50 ppm) |
| CBG | ND | <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 | 55 ppm | <i>Report only</i> | GC-MS* |
| Camphene | < 10 ppm | <i>Report only</i> | |
| (1S)-(+)-3-Carene | < 10 ppm | <i>Report only</i> | |
| beta-Caryophyllene | < 10 ppm | <i>Report only</i> | |
| p-Cymene | < 10 ppm | <i>Report only</i> | |
| Eucalyptol | < 10 ppm | <i>Report only</i> | |



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

1.800.665.HEMP
www.manitobaharvest.com

| | | | |
|--------------------------------------|-----------------|-----------------|----------------------------|
| 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 | |
| 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 | < 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> | Negative | Negative in 25g | AOAC 2004.03 * |
| MYCOTOXINS | | | |
| 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 | |
| CHEMICAL | | | |
| Residual Solvents | ND | No detection | USP <467> * |
| Pesticides | ND | 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 | |



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

1.800.665.HEMP
 www.manitobaharvest.com

| | | | |
|------------------------|-------------------|---------------|----------------|
| Gluten | < 3 ppm | < 20 ppm | AOAC 2012.01 * |
| 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 | 363 mg | 342-378 mg/sg | LAB-50-029 |
| Average gross weight | 618 mg | 567-692 mg/sg | LAB-50-029 |
| Rupture time | 10 minutes | ≤ 15 mins | QCU-50-013 |

ND = Not detected.

* Tested at ISO 17025:2005 accredited 3rd Party Laboratory: Eurofins Bidiagnostics.

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

Aaron Cassels
 Quality Control Coordinator

October 25, 2019
 Date