

Certificate of Analysis

PRODUCT: METHYLSULFONYLMETHANE (MSM)

DISTILPURE™ MSM

LOT NUMBER: 93991

LOT NUMBER OF BIO-BASED DMSO USED: HA37821

Physical Appearance: White Crystalline Powder

Physical Properties: Molecular Weight (g/mol): 94.13
Percent Sulphur Content: 34.1%

Date of Manufacture: 2018-06-06
Expiration Date: 2021-06-30

Product Test Items

Purity (MSM) USP 34 by Gas Chromatography (GC):
Melting Point @760 mm Hg
Water Content by Karl Fischer Titration
DMSO Content
Residue on Ignition

<u>Specification</u>	<u>Test Results</u>
98.0-102.0%	99.7%
108.0°C ± 1.0°C	109°C
<0.10%	0.05%
<0.1%	Not detected
<0.10%	<0.10%

Microbiological Analysis

Notes: Negative = Absent
CFU/g = Colony Forming Units per 1 gram

Aerobic Plate Count
Yeast/Mold
Coliform
E. Coli
Salmonella

<10cfu/g	<10cfu/g
<10cfu/g	<10cfu/g
Negative	Negative
Negative	Negative
Negative	Negative

Heavy Metals Analysis

As (Arsenic)
Cd (Cadmium)
Hg (Mercury)
Pb (Lead)

<0.1 mcg/g	<0.1 mcg/g (BQL)
<0.025 mcg/g	<0.01 mcg/g (BQL)
<0.005 mcg/g	<0.001 mcg/g (BQL)
<0.05 mcg/g	<0.01 mcg/g (BQL)

(BQL) = Below Quantifiable Limit

QC certifies that the above MethylSulfonylMethane (MSM) was tested and gave the results reported above.

Certified By:  Dated this 27th day of June, 2018.