



OptiMSM® Certificate of Analysis

SKU NUMBER: 12015011120K LOT NUMBER: 1535704 MFG DATE: 12/23/15 EXPIRATION DATE: 12/2019

PRODUCT: METHYLSULFONYLMETHANE VEGI-CAPSULES, (Dimethyl Sulfone, Methyl Sulfone, MSM)

MANUFACTURER: Bergstrom Nutrition, 1000 West 8th Street, Vancouver, WA 98660 – (360)693-1883 – Country of Origin: USA

EXCIPIENTS: NONE

QUANTITY: N/A

PHYSICAL DESCRIPTION: MSM in clear 00E Vegetarian Capsule

CHEMICAL ABSTRACTS REGISTRY NUMBER: 67-71-0 MOLECULAR WEIGHT: 94.13 PERCENT SULFUR: 34.1%

PHYSICOCHEMICAL ANALYSIS	METHOD	SPECIFICATION	LOT RESULT
ASSAY:	MSM – GC-FID ^{1, 2}	99% +/- 10%	102.8 %
DMSO CONTENT:	MSM – GC-FID ^{1, 2}	<0.05%	<0.05%
AVERAGE CAPSULE FILL WEIGHT		1012.5mg ± 27.5	1001.2mg
DISINTEGRATION TIME ⁴		NMT 30 MINS	Conforms
MICROBIOLOGICAL ANALYSIS	METHOD	SPECIFICATION	LOT RESULT
Aerobic Plate Count:	USP<61> ²	< 3,000 cfu/gm	<3000 cfu/gm
Yeast/Mold:	USP<61> ²	< 300 cfu/gm	<300 cfu/gm
Enterobacteria:	USP<62> ²	Absent /1g	Absent /1g
E-Coli	USP<62> ²	Absent /1g	Absent /1g
Salmonella	USP<62> ²	Absent /10g	Absent /10g
Staphylococcus aureus	USP<62> ²	Absent /1g	Absent /1g
METALS ANALYSIS ³	METHOD	SPECIFICATION	LOT RESULT
Al (Aluminum):	EPA 200.8 - ICPMS ^{1, 2}	<1.0 ppm	<1.0 ppm
As (Arsenic):	EPA 200.8 - ICPMS ^{1, 2}	<0.01 ppm	<0.01 ppm
Cd (Cadmium):	EPA 200.8 - ICPMS ^{1, 2}	<0.005 ppm	<0.005 ppm
Hg (Mercury):	EPA 7471A ^{1, 2}	<0.001 ppm	<0.001 ppm
Pb (Lead):	EPA 200.8 - ICPMS ^{1, 2}	<0.01 ppm	<0.01 ppm

- NOTE:
1. Third party laboratory validated method
 2. Additional third party validation method may be used in place of listed method.
 3. Metal analysis reported is from MSM prior to encapsulation
 4. Results reported from capsule shell manufacturer COA

Manufacturer Statement

The OptiMSM manufacturing facility is a cGMP (Good Manufacturing Practices) facility. Bergstrom Nutrition guarantees OptiMSM is non-GMO as defined by the European Union in Article 2.2 of Directive 2001/18/EC and Article 2.5 of Regulation (EC)1829/2003 and is in compliance with Regulation (EC) 1830/2003 regarding traceability and labeling of GMOs and food derived thereof.

Prepared By:

Lorinda M. White

Date:

6/3/16

Approved By:

Sarah Smart

Date:

6-3-16