



INNOVATION AND EXCELLENCE SINCE 1992

OptiMSM® Certificate of Analysis

SKU : 0081

LOT # : 2016001

MFG : 12/31/2020

EXP : 31/07/2023

PRODUCT: METHYLSULFONYLMETHANE, (Dimethyl Sulfone, Methyl Sulfone, MSM, DMSO²)

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

EXCIPIENT: Amorphous Silicon Dioxide

QUANTITY: 0.1% by weight

PHYSICAL DESCRIPTION: White powder, microprill

CHEMICAL ABSTRACTS REGISTRY NUMBER: 67-71-0

MOLECULAR WEIGHT: 94.13

PERCENT SULFUR: 34.1%

PHYSICOCHEMICAL ANALYSIS	METHOD	SPECIFICATION	LOT RESULT
VOLATILE PURITY:	MSM – GC/FID ^{1, 2}	>99.8%	99.9 %
ASSAY (Finished)	MSM – GC/FID ¹	97.9–101.9%	99.5%
IDENTITY	USP Method B	Pass	Pass
MELTING POINT:	USP/NF <741>	109.5°C ± 1.0°C	110.4°C
WATER CONTENT:	USP/NF <9211a>	< 0.1%	<0.1 %
DMSO CONTENT:	MSM – GC/FID ^{1, 2}	< 0.05%	<0.05 %
INDIVIDUAL IMPURITY	GC/FID ¹	NMT 0.05%	<0.05 %
PARTICLE SIZE: 40 ³	USP/NF <786I>	NLT 95% THROUGH	99.6%
	100 ³	USP/NF <786I>	NMT 55% THROUGH
BULK DENSITY:	USP/NF <616I>	NLT 0.72 g/ml	0.75 g/ml
TAPPED DENSITY:	USP/NF <616I>	NLT 0.80 g/ml	0.82 g/ml

MICROBIOLOGICAL ANALYSIS	METHOD	SPECIFICATION	LOT RESULT
Total Aerobic Microbial Count:	USP<61>	<10cfu/g	<10 cfu/g
Total Yeast and Mold Counts:	USP<61>	<10cfu/g	<10 cfu/g
Enterobacteria:	USP<62>	Absent	Absent
Escherichia coli:	USP<62>	Absent	Absent
Salmonella:	USP<62>	Absent	Absent
Staphylococcus aureus:	USP<62>	Absent	Absent

METALS ANALYSIS	METHOD	SPECIFICATION	LOT RESULT
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. U.S. Sieve Designation

Manufacturer Statement

The methylsulfonylmethane (MSM) used in the manufacture of this product complies with the requirements of the United States Pharmacopeia / National Formulary. The manufacturing process takes place in the USA in a facility that is in full compliance with the FDA cGMP requirements and is ISO 9001 & FSSC 22000 certified. 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. OptiMSM is Kosher certified through the Orthodox Union and Halal certified by the Islamic Food and Nutrition Council of America and is GRAS.