



Technical Formulation Guide

Product: METHYLSULFONYLMETHANE (MSM, Dimethyl Sulfone, Methyl Sulfone)

SKU #: 20020

Excepient: None

Quantity: 0%/Wgt

Product Description: White Flake

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%	%
Assay	MSM - GC/FID ¹	98.0-102.0%	%
Identity	USP Method B	Pass	Pass
Melting Point	USP/NF <741>	109.5°C ± 1.0°C	°C
Water Content	USP/NF <9211a>	<0.1%	%
DMSO Content	MSM - GC/FID ^{1,2}	<0.05%	%
Individual Purity	GC/FID1	<0.05%	%
Particle Size 12 ³	USP/NF <7861>	NLT 98% Through	%
Bulk Density	USP/NF <6161>	NLT 0.68 g/ml	g/ml
Tab Density	USP/NF <6161>	NLT 0.78 g/ml	g/ml

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

Formulation Advice

Formulation is an art form that is both technical and analytical in nature. The main goal with any formula is to identify the right active ingredients to accomplish a positive outcome. Secondly, the appropriate amount or dose of active ingredients must be identified to produce an effect. Finally, for complex approaches to formulation, a variety of contributing ingredients are used to enhance or improve the outcome.

Delivery Form	Capsule Size	Specification	Result
Capsule	#00	By Weight	732 mg
Capsule	#0	By Weight	553 mg
Capsule	#1	By Weight	407 mg
Capsule	#3	By Weight	229 mg
Capsule	#00E	By Weight	1000 mg

Applications

- Joint Health
- Skin Care
- Healthy Aging
- Beauty from Within
- Sports Nutrition
- Immune Response

Delivery Forms

- Capsules
- Tablets
- Topical (Cream & Gels)
- Drinks

Delivery Form	Preparation	Saturation	Result
Topical	Cream/Gel	100%	20% (200mg/ml)

Manufacturer Statement

The methylsulfonmethane (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.

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