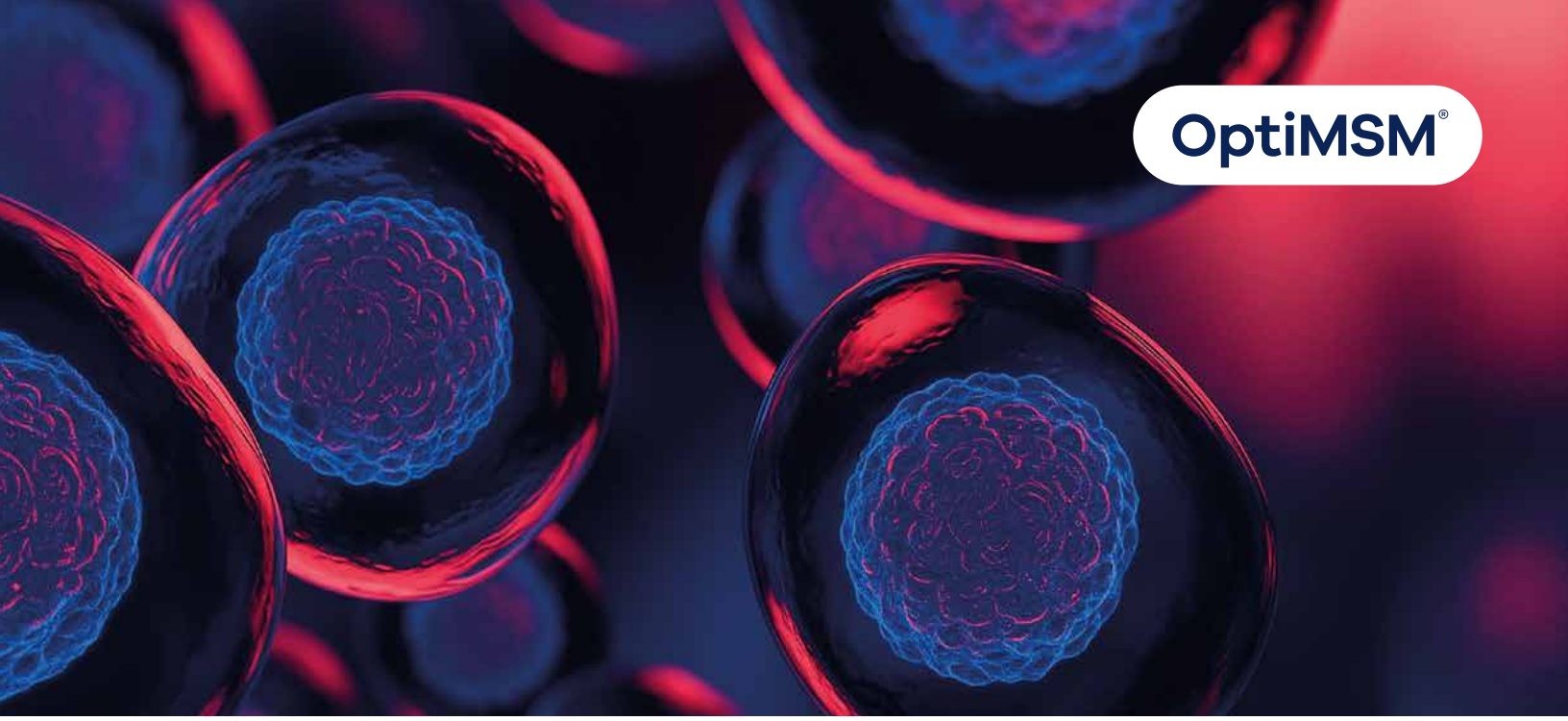
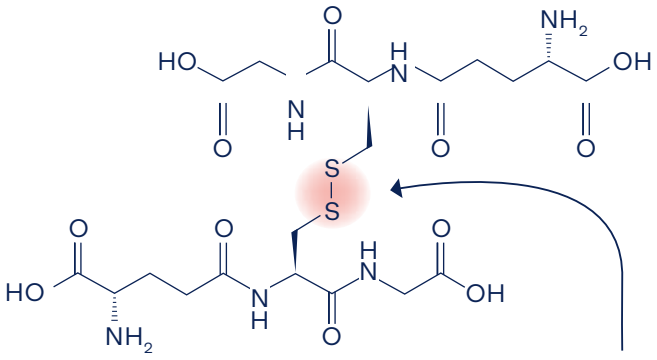


OptiMSM®

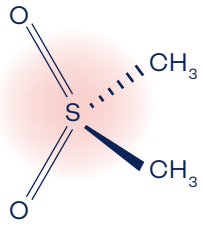
How MSM Supports Production of Glutathione – The Body's Master Antioxidant

Glutathione is part of the body's first line of defense against oxidative stress. Unlike other antioxidants obtained through the diet, glutathione is produced within your body's cells. It helps support multiple aspects of health, from joint health, to skin health, and even sports nutrition.

Glutathione, sometimes called the "master antioxidant", works in two ways. It acts by itself as an important antioxidant, but also supports the function of essential nutrients like vitamins C and E to support the body's defenses against oxidative stress.



Two molecules of glutathione bind together using the sulfur molecule, where it can then be recycled back into two individual glutathione molecules. The **sulfur** in glutathione is essential for its function.



Sulfur is a mineral that we get in our diet, but we may not get enough to best support health. In supplements, Methylsulfonylmethane (MSM) is a bioavailable form of sulfur that helps support glutathione structure and function

MSM Supports
Nature's Master Antioxidant

The benefits of supplementing glutathione directly are limited due to poor bioavailability. By providing sulfur, MSM has been shown to enhance endogenous glutathione production, mitigate oxidative stress, and support systemic health.

Sports Nutrition

MSM supplementation supports antioxidant response and decreases pain after exercise [1]

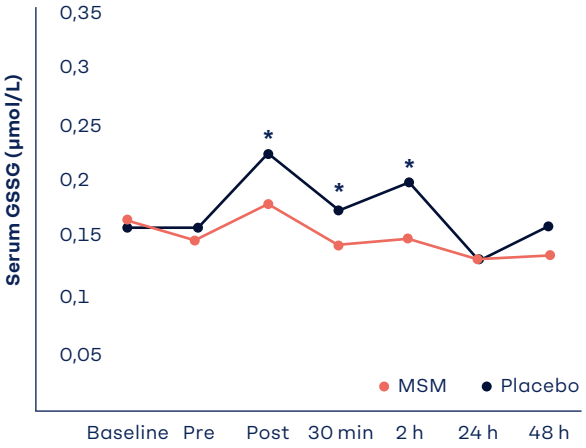
Joint Health

MSM helps maintain quality of life by supporting joint function and comfort[2]

Beauty from Within

MSM supplementation significantly decreases the appearance of wrinkles, improving skin firmness and texture [3]

MSM reduces the level of oxidized glutathione, a marker of oxidative stress after exercise



* Significant difference between groups, p ≤ 0.05. Adapted from (1). GSSG = Oxidized Glutathione

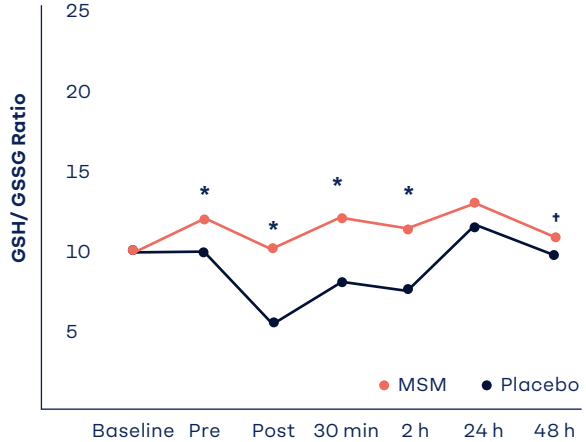
Why Choose **OptiMSM®?**

Purity
A proprietary multi-stage distillation process vs. crystallization process ensures a 99.8% pure product to guarantee a consistent, high-quality form of MSM.

Consistency
30+ years of manufacturing expertise backed by ISO 9001:2015 registration, FSSC-22000 certification, HACCP, and cGMP compliance.

Safety
The only GRAS-designated, Kosher and Halal certified, gluten-free, allergen-free, non-shellfish-derived, vegan form of MSM

MSM supports post exercise recovery by significantly improving the GSH/GSSG ratio, a marker of antioxidant response



* Significant difference between groups, p ≤ 0.05 | † = Main treatment effect, p<0.05 | Adapted from (1). GSSG = Oxidized Glutathione

Sources:
(1) Nakhostin-Roohi B, et al., JPP 2011; 63: 1290-1294
(2) Toguchi A, et al., Nutrients 2023; 15: 2995.
(3) Anthonavage M, et al., Nat Med J 2015; 7(11): 1-10.

This information is intended for industry professionals or customers of dietary ingredients, not consumers. Any explicit or implied claims included in this presentation may not necessarily be appropriate for marketing purposes and customers are responsible for their own compliance with relevant legal and regulatory requirements. These statements have not been evaluated by the US Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

All trademarks are property of Balchem Corporation or its respective subsidiaries.
Copyright © 2025 Balchem Corporation or its subsidiaries, all rights reserved.

balchem
HUMAN NUTRITION & HEALTH