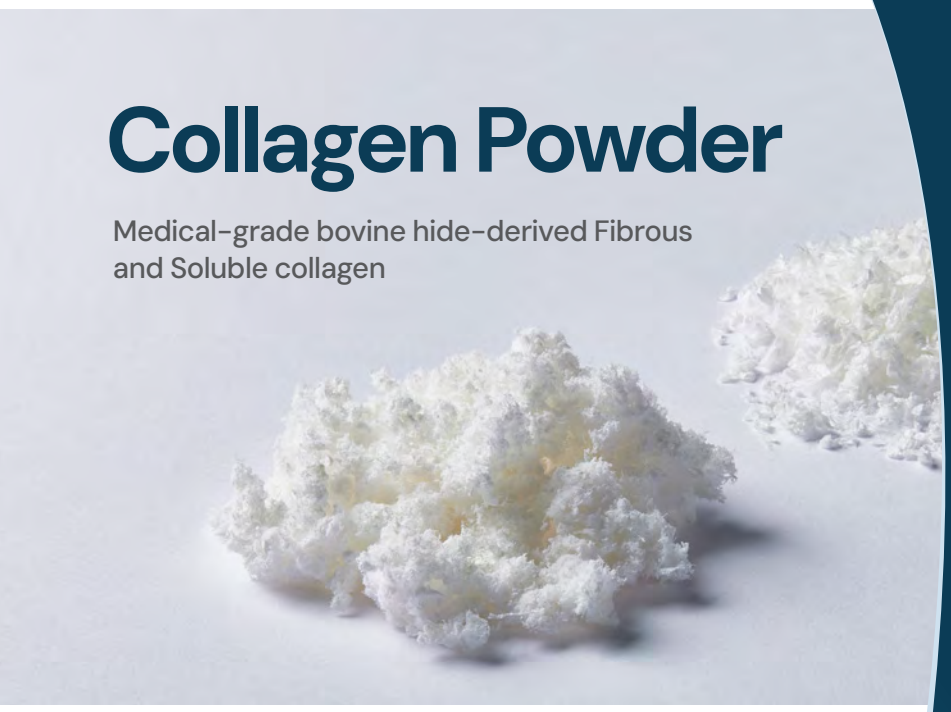
dsm-firmenich

Collagen Powder

Medical-grade bovine hide-derived Fibrous and Soluble collagen



Freedom to formulate. Confidence to heal.

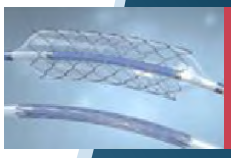
A legacy of trust – 30+ years of regenerative healing innovation, worldwide[1]

Our best-in-class bovine hide-derived collagen platform offers medical-grade powders with preserved fibrous microarchitecture and unique soluble properties – delivering a range of architecture, hydrophilicity, resorption profiles, and mechanical characteristics to support natural healing with proven biocompatibility and effective hemostasis across diverse regenerative applications.[1,2]

Key advantages

- **Sourcing:** Closed-herd sourcing supports consistent, high quality materials
- **Tailored performance:** Customizable architecture meets your unique application needs
- **Integration ready:** Seamlessly combines with ceramics, coatings, sutures, meshes, and drug-delivery systems
- **Regulatory confidence:** Supported by FDA Master Files for streamlined submissions and compliance

Potential applications



Vascular
Pacemakers, stents, heart valves, valve repair, embolization coil, and vascular closure devices

Orthopedics
Osteoarthritis, chondral resurfacing, meniscal repair, bicep tenodesis, and many more

Wound management
Guidance matrices, hemostatic pads

Dental
Periodontal lifts, implant support

Product features & benefits[1]

Feature	Benefit
Delivered as a dry powder	Increases slurry concentration possibilities Enhances shelf-stability as compared to aqueous products
Fully characterized in accordance with ASTM F2212, supported by established material master files	Enables use of collagen as starting material for surgical implants and substrates for tissue engineered medical products
Purification process minimizes endotoxin and bacteria levels	Helps reduce risk of foreign body reaction and negative immune response
Soluble collagen: Purification process breaks down native fibers to tropocollagen units	Enhances flowability and cohesiveness in scaffolds and slurries
Fibrous collagen: Purification process preserves native triple-helix structure, fibrils and fibers	Preserved native triple-helix structure supports essential cell signaling and mechanical performance, while fibrous entanglement provides skeletal integrity for cohesive putties and crosslinked preforms[3]

Availability & storage

- Samples available in 25 g or 100 g quantities
- Larger volumes available upon request
- Supplied non-sterile
- Short term storage: room temperature
- Long term storage: refrigerated, 4–6 °C

About the Biomedical division of dsm-firmenich
As innovators in nutrition, health, and beauty, we reinvent, manufacture, and combine vital nutrients, flavors, and fragrances for the world's growing population to thrive.

In the Biomedical division, we serve as a committed partner in driving sustainable innovation in healthcare, from spark to solution. Our biomaterial products, customized solutions and expert services are recognized for their unmatched quality, reliability, and performance worldwide. Together, we bring progress to life every day, everywhere, for billions of people.

To learn more, visit dsm-firmenich.com/biomedical.

Visit dsm-firmenich.com/biomedical to request your sample today!

Product Disclaimer Evaluation of the biological safety and functional performance of a material produced by dsm-firmenich in a final, finished medical device remains the responsibility of the legal medical device manufacturer.

1. Data on file at Biomedical.
2. Savage B, Ginsberg MH, Ruggeri ZM. Influence of fibrillar collagen structure on the mechanisms of platelet thrombus formation under flow. Blood. 1999 Oct 15;94(8):2704-15. PMID: 10515874.
3. Pina S, Ribeiro VP, Marques CF, Maia FR, Silva TH, Reis RL, Oliveira JM. Scaffolding strategies for tissue engineering and regenerative medicine applications. Tissue Eng Part B Rev. 2019;25(5):1-11. doi:10.1089/ten.teb.2018.0239.

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