

Meso BioMatrix®

Acellular Peritoneum Matrix

A surgical mesh with
exceptional handling
and strength.

Conforming

+

Supportive

+

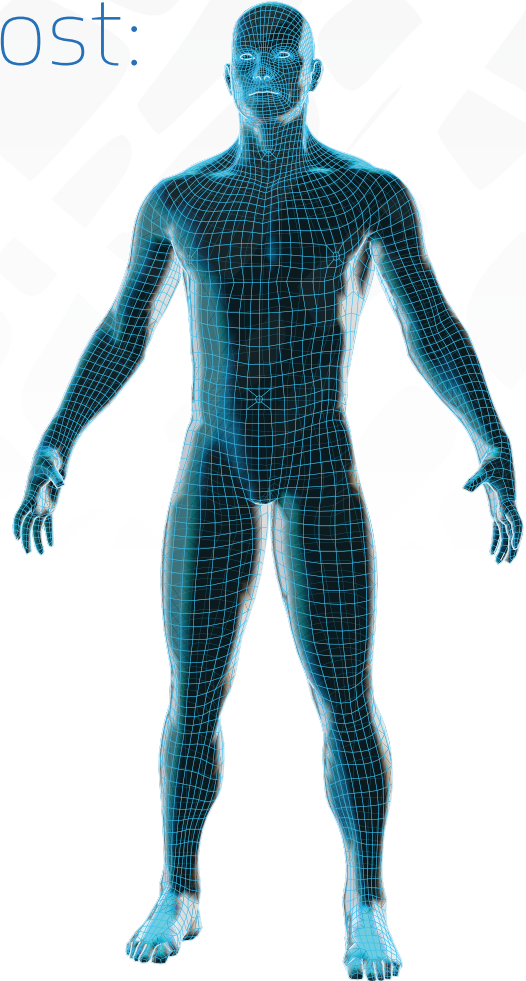
Reinforcing

Meso BioMatrix®

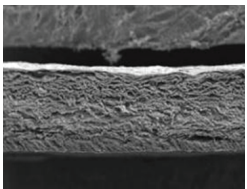
Acellular Peritoneum Matrix

A surgical mesh with the features you want most:

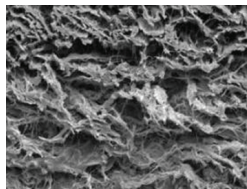
- Suturable with exceptional strength¹
- Thin, natural matrix allows contour control
- Supports host cell integration and revascularization²



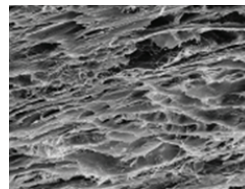
SEM images show the natural structure and architecture is preserved through minimal processing**



SEM image at 100x
Sample cross-section
Basal Lamina and
Subserosa



SEM image at 500x
Sample cross-section
Meso BioMatrix® open
pore structure



SEM image at 500x
Sample cross-section
dermis for comparison

Processed to preserve natural proteins and growth factors:

Structural Proteins (Collagen, Elastin) Provides strength, structural support, and recoverable elasticity⁴

Glycoproteins (Fibronectin, Laminin) Promotes cell attachment^{**}

Proteoglycans (Versican) Sequesters growth factors³

Glycosaminoglycans (Chondroitin, Sulfate) Mediates cell communication³

Growth factors (VEGF, FGF, TGF- β) Stimulates angiogenesis, cellular proliferation, and controls inflammation⁵

¹Bench Test results are not necessarily indicative of clinical performance. Testing performed by DSM Biomedical. Data on file at DSM Biomedical.

^{**}The effect of these components on the performance of Meso BioMatrix Mesh has not been clinically evaluated

Ideally suited for plastic and reconstructive applications.

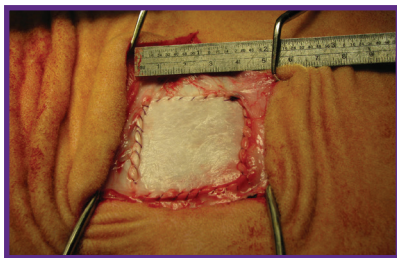
Meso BioMatrix is an acellular surgical matrix ideal for plastic and reconstructive procedures. Derived from porcine peritoneum, Meso BioMatrix Mesh is naturally *strong, thin, and conformable*.

The strength and elasticity required to support your soft tissue repairs.¹



Images demonstrate the strength of Meso BioMatrix without the sagging associated with dermal products

In pre-clinical data Meso BioMatrix appeared to facilitate the regeneration of tissue without eliciting a negative biologic response.*



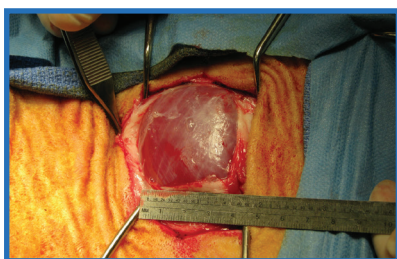
0 weeks Meso BioMatrix implanted



6 weeks Meso BioMatrix integrated



12 weeks Meso BioMatrix integrated



0 weeks control



6 weeks control



12 weeks control

*Pre-Clinical study evaluated the effects Meso BioMatrix had on tissue regeneration when implanted subcutaneously in a sheep model compared to an empty control. Bench test results are not necessarily indicative of clinical performance. Testing performed by DSM Biomedical. Data on file at DSM Biomedical.

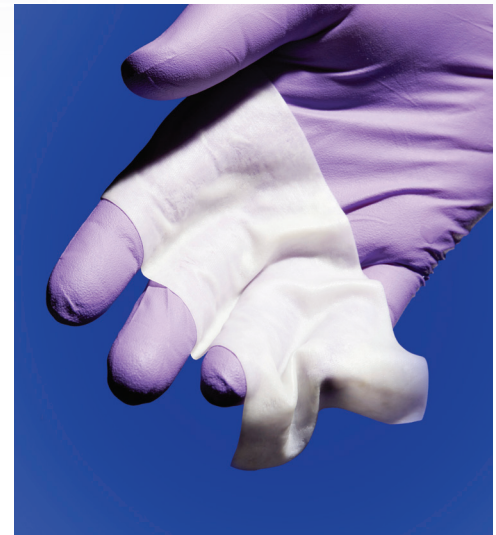
MTF Biologics offers innovative and effective solutions in plastic and reconstructive surgery. We advance the science of tissue transplantation through our commitment to research and development. Refer to the Instructions for Use for the cleared indications for use.

Meso BioMatrix®

Acellular Peritoneum Matrix

Ordering Information

| MTF BIOLOGICS DESCRIPTION | TISSUE CODE |
|---------------------------------|-------------|
| Meso BioMatrix Mesh 2cm x 4cm | 910204 |
| Meso BioMatrix Mesh 4cm x 5cm | 910405 |
| Meso BioMatrix Mesh 6cm x 8cm | 910608 |
| Meso BioMatrix Mesh 8cm x 16cm | 910816 |
| Meso BioMatrix Mesh 10cm x 20cm | 910120 |



Distributed by MTF Biologics. Manufactured by DSM Biomedical.

CUSTOMER SERVICE

For orders within the USA, contact MTF Biologics Customer Service: (800) 433-6576

For orders outside the USA, contact your local representative or MTF Biologics International Customer Service: +1 (732) 661-0202

Relevant References

1. Cronce, Michael J., et al. "In Vivo Response to Decellularized Mesothelium Scaffolds" *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, vol. 106, no. 2, 2017, pp. 716-725. doi:10.1002/jbm.b.33879.
2. Hoganson, David M., et al. "Preserved Extracellular Matrix Components and Retained Biological Activity in Decellularized Porcine Mesothelium" *Biomaterials*, vol. 31, no. 27, 2010, pp. 6934-6940. doi:10.1016/j.biomaterials.2010.05.026.
3. Badylack et al. "The Extracellular Matrix as a Scaffold for Tissue Reconstruction" *Seminars in Cell & Developmental Biology*, vol. 15, no. 3, Oct. 2002, pp. 377-383 doi:10.1016/S1084952162000940
4. Rozano et al. "The Extracellular Matrix in Development and Morphogenesis: A Dynamic View" *Developmental Biology*, vol. 341, no. 1, May 2010, pp. 126-140. doi:10.1016/j.ydbio.2009.10.026
5. Greenhalgh et al. "The Role of Growth Factors in Wound Healing" *The Journal of Trauma: Injury, Infection, and Critical Care*, vol. 41, no. 1, July 1996, pp. 159-167.

Caution: Federal (U.S.A) law restricts this device to sale by or on the order of a physician



Plastic & Reconstructive Surgery

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mtfbiologics.org/mesobiomatrix

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