STRENGTH OF SCIENCE

XCM BIOLOGIC® Tissue Matrix

Now with sizes up to 25 cm x 45 cm

Your trusted partner providing a complete portfolio of biologic meshes.
DePuy Synthes Companies of Johnson & Johnson offer an unparalleled breadth and depth of technology, devices, services and programs in the areas of joint reconstruction, trauma, spine, sports medicine, neurological medicine, craniomaxillofacial surgery, power tools, and biomaterials.
Indications
XCM BIOLOGIC® Tissue Matrix is indicated for use in general surgical procedures for the reinforcement and repair of soft tissue where weakness exists, including, but not limited to; defects of the thoracic wall, suture line reinforcement, and muscle flap reinforcement; hernia repair; soft-tissue reconstructive procedures including plastic and reconstructive surgical applications; and for reinforcement of soft tissues, which are repaired by suture or suture anchors.

XCM BIOLOGIC Tissue Matrix is intended for single-use only.

Contraindications
This device is derived from a porcine source and should not be used for patients with known sensitivity to porcine material. The device is contraindicated for patients known to be undergoing desensitization injections to meat products, as these injections can contain porcine collagen.

The device is contraindicated for use in any patient in whom soft-tissue implants are contraindicated, including:

- Blood supply limitations
- Pathologic soft-tissue conditions that would prevent secure fixation

The device is contraindicated in uses that require rolling, folding, or layering, and which may create a space impermeable to fluid, cells, and blood vessels. Such uses may result in excessive inflammation, drainage, extrusion, or infection. Folding of the product edges (1 cm or less) to increase suture retention strength has not resulted in any reported problems in similar products, and is appropriate when indicated. The device is contraindicated for patients with severe allergies manifested by a history of anaphylaxis, history of multiple severe allergies, or known allergies against porcine collagen.

Please refer to the package insert for full list of indications, contraindications, warnings, and/or precautions.
Key Features

**Easy-to-use**
- Hydrated, ready-to-use
- No soaking reduces the chances of contamination
- Can be stored at room temperature
- No pre-stretching required
- No orientation limitation
- Terminally sterilized
- No risk of human disease transmission
- Available in a wide variety of sizes

**Strong**
- Strength without cross-linking
- Intact collagen fibers retain natural strength and provide pliability to XCM BIOLOGIC Tissue Matrix**
- Highly consistent thickness

**Non-cross-linked**
- Unique processing maintains the natural 3-D fibrous structure and key ECM components*
- Open pore structure allows for cell in-growth and revascularization**

Our partnership with DSM brings you more than 20 years of experience with biologic materials.

Scan the QR code to see how XCM BIOLOGIC Tissue Matrix open-pore structure allows blood to permeate through it.

*The effect of these components on the performance of XCM BIOLOGIC Tissue Matrix has not been clinically evaluated.
**Data on file at DSM.
Animal and bench test results are not necessarily indicative of clinical performance.
For DePuy Synthes Companies, quality is the top priority. We have partnered with DSM, which produces XCM BIOLOGIC Tissue Matrix through its innovative Oprix™ process. Oprix™ maintains natural collagen architecture without cross-linking*.

Meticulously tested
Shown: Large sizes of XCM BIOLOGIC Tissue Matrix being tested at DSM. Each piece is individually tested*.
Optrix™ Process—Strong, Selective, and Gentle

Strong enough to disinfect tissue and inactivate viruses*
- Achieves a Sterilization Assurance Level (SAL) of $10^{-6}$ for bacteria, mold, and yeast.
- Inactivation and clearance of a biologically diverse range of viruses, including the highly resistant small non-enveloped viruses.

Selective enough to remove unwanted cells*
The Optrix™ process reduces the cellular material in XCM BIOLOGIC Tissue Matrix to background levels of residual DNA as measured by Pico Green testing. It also reduces the α-Galactose antigen level for better host acceptance*.

Gentle enough to maintain bulk of natural ECM components†
The Optrix™ process retains a high percentage of Glycosaminoglycans (GAGs)*.

In vivo, GAGs mediate cell communication during tissue repair†.

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*Data on file at DSM.
†The effect of these components on the performance of XCM BIOLOGIC Tissue Matrix has not been clinically evaluated.
Science that matters to you

**Key molecular components** in a biologic tissue matrix

**Tensile strength**

Structural proteins like collagen provide strength and structural support in the body.

XCM BIOLOGIC Tissue Matrix is a non-cross-linked matrix. It maintains types 1, 3, 4, and 7 collagen*†.

**Suture retention strength**

Retention of key molecular components: GAGs

Glycosaminoglycans (GAGs) mediate cell communication, sequester water for structural support, and play an important role in the body during tissue repair².

XCM BIOLOGIC Tissue Matrix is proven to retain high levels of GAGs compared to its competitors*‡.

**Incorporation**

Glycoproteins such as fibronectin and laminin promote cell attachment³. Fibronectin plays a vital role in vivo during cell adhesion, cell differentiation, and tissue reconstruction⁴. Laminin plays an important role in vivo during the adhesion of epithelial, endothelial, and mesothelial cells⁵.

XCM BIOLOGIC Tissue Matrix is shown to retain both fibronectin and laminins*†.

*The effect of these components on the performance of XCM BIOLOGIC Tissue Matrix has not been clinically evaluated.
†Data on file at DSM.

Figure 1: Hematoxylin and eosin stain of the incisional biopsy showing incorporation of the XCM BIOLOGIC Tissue Matrix at 4-months post-implantation with tissue ingrowth from all sides (shown at 20x magnification)*†.

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Figure 1: Reconstruction of the anterior abdominal wall following a TRAM flap breast reconstruction. Case report available upon request from DePuy Synthes Companies.
Science that stands out

XCM BIOLOGIC Tissue Matrix exhibited less bulging than Strattice™†.

An animal study showed that abdominal wall defects in rabbits repaired with XCM BIOLOGIC Tissue Matrix bulged significantly less than defects repaired with Strattice after 12 months*†.

Comparison of XCM BIOLOGIC Tissue Matrix vs. Strattice on key surgical parameters†

At DePuy Synthes Companies, we know what really matters to you during surgeries.

Biomechanical testing shows XCM BIOLOGIC Tissue Matrix performs excellently on all of the 3 key surgical parameters—tensile strength, suture retention strength, and stretch resistance. (Young’s modulus)†.

*Testing of explanted XCM BIOLOGIC Tissue Matrix, Strattice, and Alloderm grafts from rabbits. Data on file at DSM.
†Data on file at DSM. Animal studies and biomechanical testing are not necessarily indicative of clinical performance.
XCM BIOLOGIC Tissue Matrix, sterile, (hydrated)

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<th>Dimensions</th>
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XCM BIOLOGIC Tissue Matrix is on average 1.5 mm thick ± 0.3 mm. Additional sizes may be available.

Please contact your DePuy Synthes CMF Sales Consultant for details. To order, call DePuy Synthes CMF Customer Service at (800) 668-1119.

Limited Warranty and Disclaimer: DePuy Synthes CMF products are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed.

WARNING: In the USA, this product has labeling limitations. See package insert for complete information.

Rx Only

Not all products are currently available in all markets.