

# Myriad™

## Soft Tissue Matrix



### Myriad™

Engineered extracellular matrix for soft tissue repair, reinforcement and complex wounds

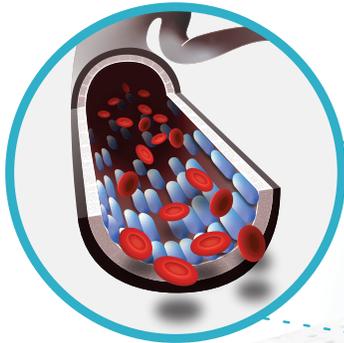
- Natural structure and engineered architecture enables rapid cell access
- **Myriad™** absorbs blood components and cells to facilitate the tissue building process
- Delivers biology known to support healing
- Delicate processing ensures native tissue structure, biological function and reduced inflammation
- Natural vascular channels facilitate angioconduction
- Versatile soft tissue matrix
- Designed to support surgical mastery
- **Endoform®** ECM – trusted technology in soft tissue repair
- Simplifies inventory management

Unlocking regenerative healing for **everybody**



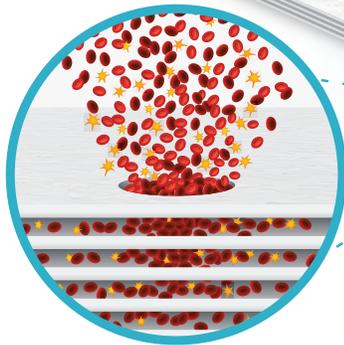
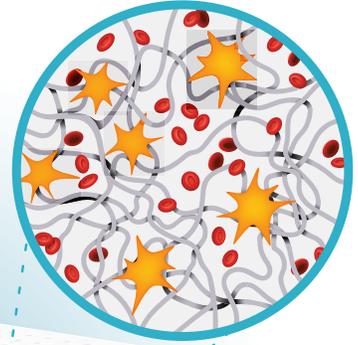
## Soft Tissue Matrix

### Natural structure and engineered architecture enables rapid cell access

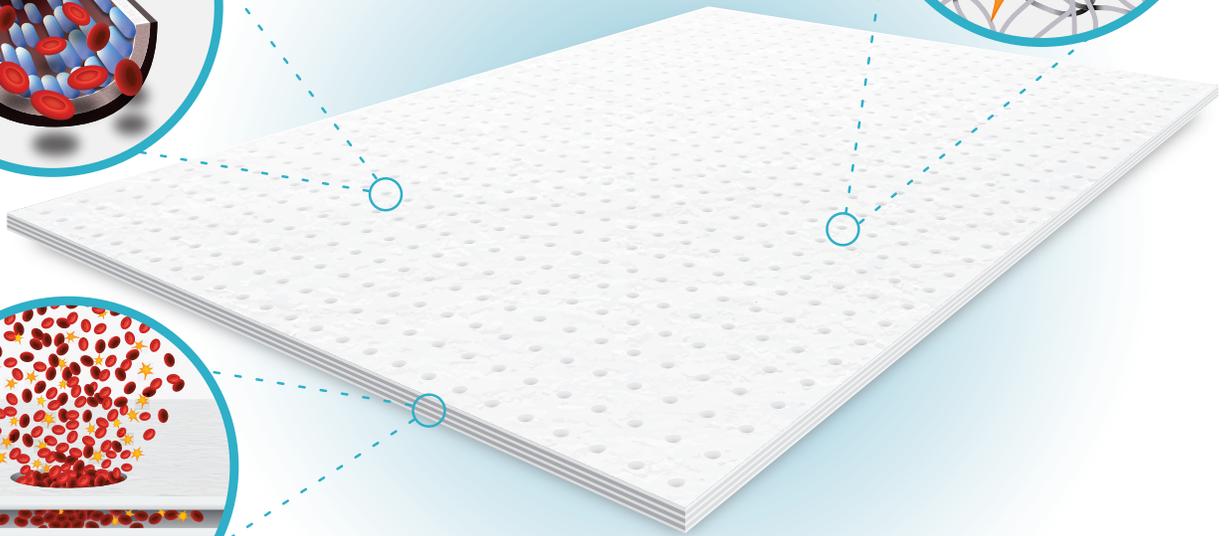


Natural vascular channels support angioconduction.<sup>2</sup>

Endoform™'s native porous extracellular matrix provides a biological scaffold known to support cell infiltration and migration.<sup>1</sup>



Engineered perforations and interstitial spaces facilitate cell access and lateral cell migration.



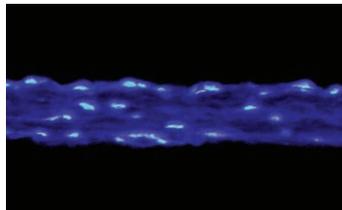
### Myriad™ absorbs blood components and cells to facilitate the tissue building process

Myriad™ immediately absorbs cells, blood and blood components into the matrix to form a reservoir of biologically important cell and cell components to kick-start the tissue repair process.<sup>3</sup>

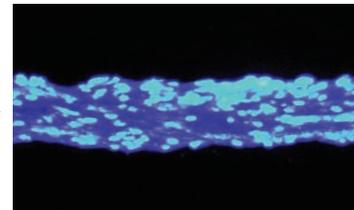
Fibroblast, endothelial and immune cells infiltrate the entire matrix, build new tissue and over time **Myriad™** is completely replaced by the patient's own tissue.<sup>2</sup>



Immediate



Days



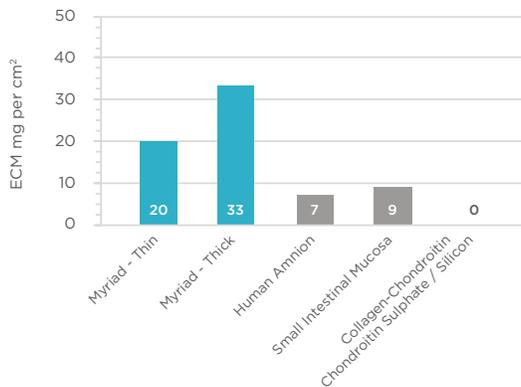
Weeks

Myriad™ absorbs blood and blood components on placement in the tissue deficit (left). Over time cells (light blue) infiltrate Myriad™ (light blue) (center and right).<sup>1</sup>

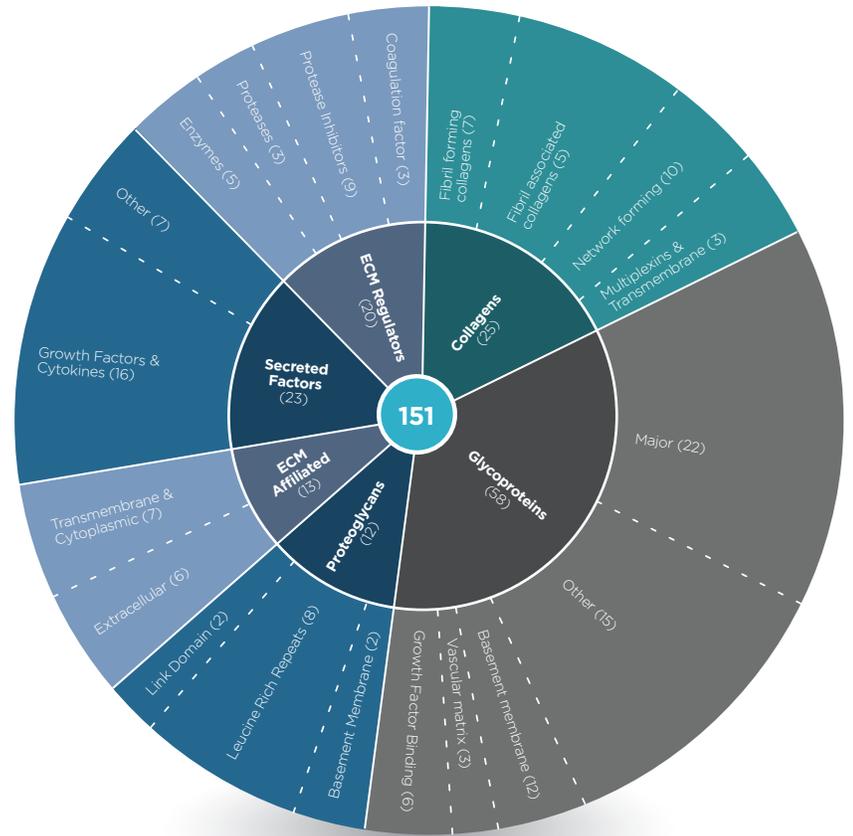
## Delivers biology known to support healing

**Myriad™** retains the authentic structure and complexity of natural tissue ECM and provides biological cues to aid the repair process.<sup>1,2,4</sup>

**Myriad™** contains more than 150 ECM proteins, including collagen and other secondary molecules that exist in tissue and aid the healing process.<sup>5</sup>

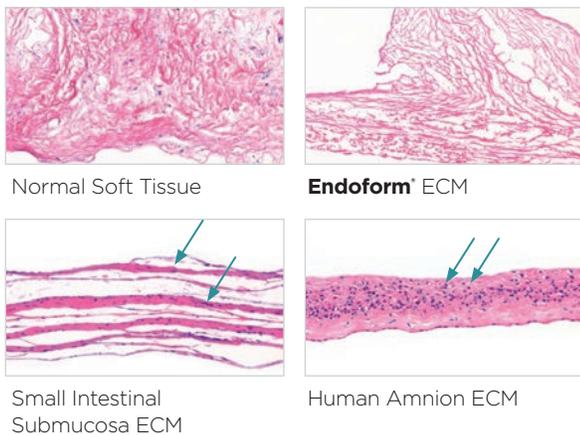


**Myriad™** provides more critical ECM proteins to the soft tissue deficit (mg/cm<sup>2</sup>).<sup>6</sup>

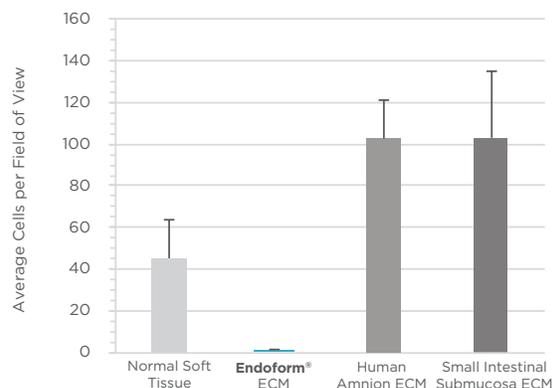


## Delicate processing ensures native tissue structure, biological function and reduced inflammation

**Endoform™** ECM is prepared using the proprietary **'Transpose'** process that is optimized to retain the open porous structure of tissue ECM, important ECM components, and reduce inflammatory components.<sup>1,5,6</sup> **Endoform™** ECM is not chemically cross-linked.<sup>1</sup>



Representative H&E images. Arrows indicate residual cells. 25x magnification; scale bar = 100µm.<sup>6</sup>

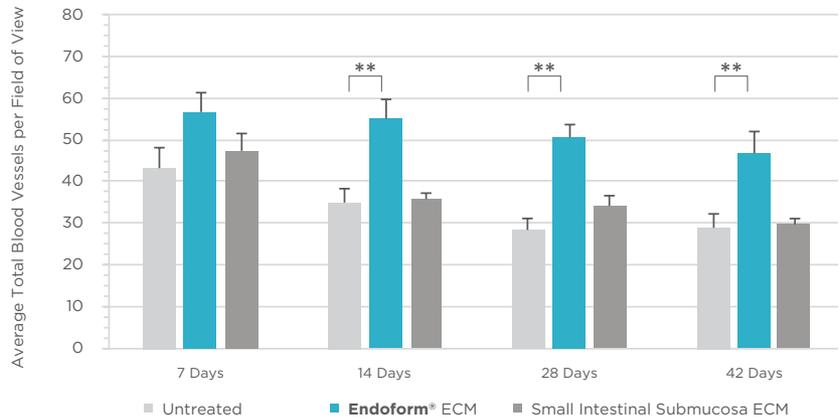
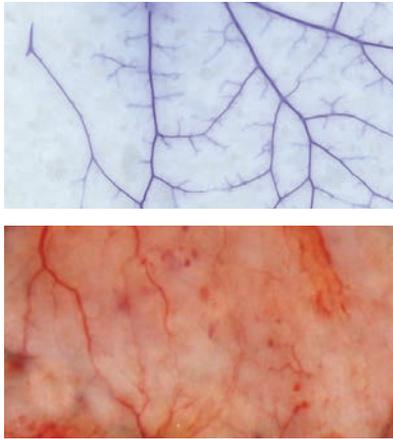


Cells per field of view. Errors represent standard error from replicate samples.<sup>6</sup>

## Natural vascular channels facilitate angioconduction

Angioconduction is the structural effect of vascular channels on endothelial cells to support blood vessel development. Studies have shown that when present in a graft material, natural vascular channels lead to a denser and more rapidly forming capillary network.<sup>7</sup>

**Myriad™** contains an extensive network of vascular channels within the natural **Endoform™** ECM.<sup>6</sup> The vascular channels provide immediate and specific vascular architecture to support migrating endothelial cells to establish new vasculature and a robust blood supply.<sup>2, 3</sup>

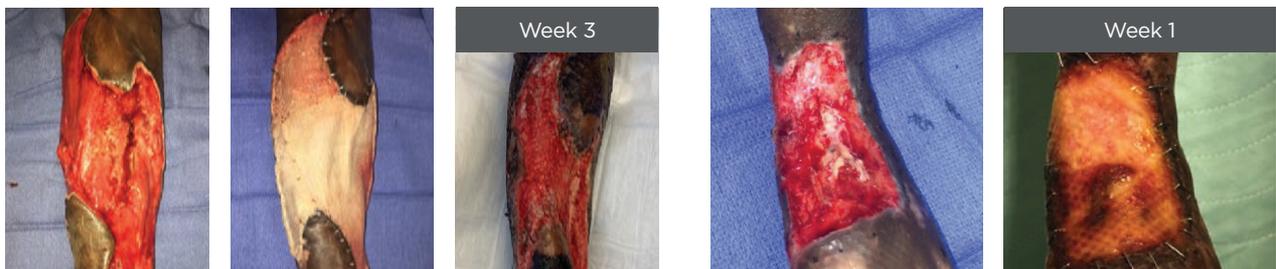


Representative image of vascular channels present in **Endoform™** ECM following dye perfusion (top left).<sup>6</sup>

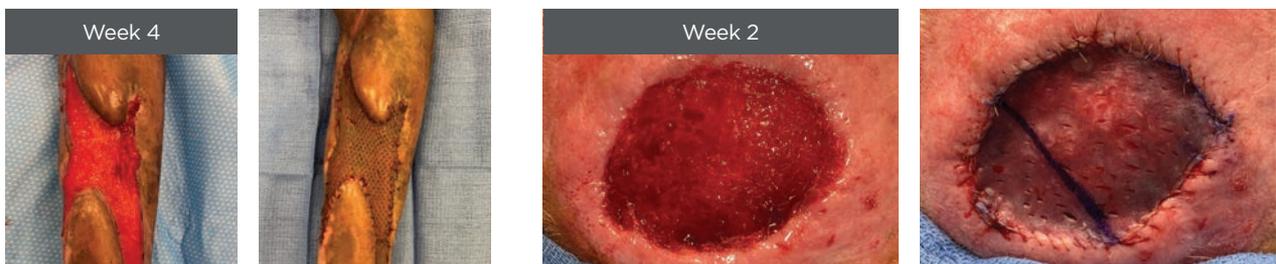
Vascularization of **Endoform™** ECM *in vivo* (bottom left).<sup>6</sup> Average total blood vessels per field of view. \*\*\*, p<0.01 (right).<sup>2</sup>

## Versatile soft tissue matrix

**Myriad™** is suitable for a wide range of plastic and reconstructive surgical procedures where soft tissue requires repair or reinforcement. The structure and biology of **Myriad™** may also help healing in patients with impaired or compromised healing due to local or systemic factors.



Allows immediate coverage to exposed bone and tendon and builds granulation tissue



Supports growth of robust well vascularized granulation tissue for successful split thickness skin grafting.

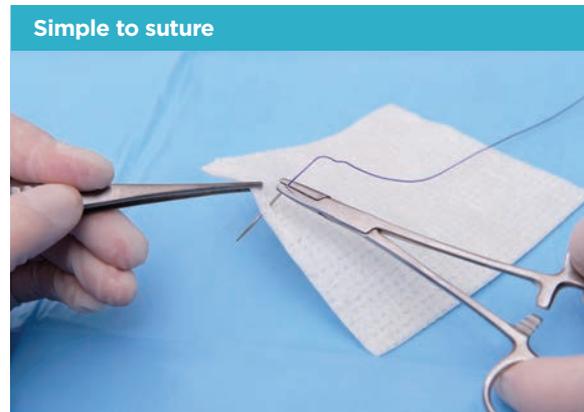
## Soft Tissue Matrix

### Designed to support surgical mastery

**Myriad™** is designed to be easy to customize for a wide range of anatomical sites and individual situations. It is strong, soft, drapable, and conforming. It rehydrates quickly, and is easy to handle, cut, suture or staple. **Myriad™** helps to achieve surgical mastery in routine and more challenging repair and reinforcement procedures.



Handles well



Simple to suture



Resists suture pull-out

### Endoform® ECM - trusted technology in soft tissue repair

**Endoform®** ECM technology has been in clinical use for over 10 years and over 5 million devices have been used in a range of soft tissue repair procedures, including wounds, abdominal wall repair, plastics and reconstructive surgery.

**Endoform®** is a leading ECM technology for soft tissue repair.



**10 YRS**

CLINICAL EXPERIENCE



**8+**

PEER REVIEWED CLINICAL STUDIES



**8+**

PEER REVIEWED PRECLINICAL PAPERS



**3+**

CLINICAL CONSENSUS PAPERS



**5 MILLION**

PROCEDURES



**80+**

CONFERENCE PROCEEDINGS



## Soft Tissue Matrix



### Simplifies inventory management

- ✓ Dermal repair
- ✓ Implantable soft tissue repair
- ✓ Complex wounds
- ✓ Impaired healing
- ✓ Cost savings
- ✓ Long shelf life
- ✓ No specialized storage requirements
- ✓ Flexible SKU range
- ✓ Terminally sterilized
- ✓ Reduced viral and TSE transmission risk
- ✓ Wide cultural and religious acceptance
- ✓ No human tissue tracking requirements
- ✓ Less than 5 minutes preparation time

1. Lun, S., et al., *A functional extracellular matrix biomaterial derived from ovine forestomach*. Biomaterials, 2010. 31(16): p. 4517-29.
2. Irvine, S.M., et al., *Quantification of in vitro and in vivo angiogenesis stimulated by ovine forestomach matrix biomaterial*. Biomaterials, 2011. 32(27): p. 6351-61. 2011;32(27):6351-61.
3. Chaffin, A.E., et al. *Multi-Centre Clinical Evaluation of a Cell Conductive Extracellular Matrix Surgical Mesh in Plastics and Reconstructive Surgery – A Case Series*. in *41st Annual Boswick Burn & Wound Symposium*. 2019. Wailea Beach, Maui, HI.
4. Sizeland, K.H., et al., *Collagen Fibril Response to Strain in Scaffolds from Ovine Forestomach for Tissue Engineering*. ACS Biomater. Sci. Eng., 2017. 3(10): p. 2550–2558.
5. Dempsey, S.G., et al., *Functional Insights from the Proteomic Inventory of Ovine Forestomach Matrix*. J Proteome Res, 2019. 18(4): p. 1657-1668.
6. Data on file.
7. Greaves, N.S., et al., *Acute cutaneous wounds treated with human decellularised dermis show enhanced angiogenesis during healing*. PLoS One, 2015. 10(1): p. e0113209.

### Ordering information

Myriad™ – Thin (~1.0 mm)		
Stock no.	Product Size (L x W)	Quantity/Box
SR03LG0505US	5 x 5 cm	1
SR03LG1010US	10 x 10 cm	1
SR03LG1020US	10 x 20 cm	1

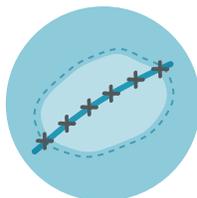
  

Myriad™ – Thick (~1.5 mm)		
Stock no.	Product Size (L x W)	Quantity/Box
SR05LG0505US	5 x 5 cm	1
SR05LG1010US	10 x 10 cm	1
SR05LG1020US	10 x 20 cm	1

### Usage:

Read the entire **Instructions for Use** supplied with the product.

#### Implantation



#### Dermal Repair

**RX Only.** Prior to use, be sure to read the entire Instructions For Use package insert supplied with the product. Product information contained herein is for US customers. Consult your local sales representative for country specific information.

**For product questions, sampling needs, or detailed clinical questions concerning our products in the US, please call 1-877-627-6224 or email customerservice@aroabio.com.**



# AROA

Manufactured for:  
**AROA BIOSURGERY INC**

7220 Trade Street, Suite 306, San Diego, CA 92121  
1-877-627-6224  
www.aroabio.com

Endoform™ is a registered trademark of Aroa Biosurgery Limited. Myriad™ is a trademark of Aroa Biosurgery Limited. Ovitex™ is a registered trademark of TelaBio Incorporated.

MKT.1522.02 | March 2021