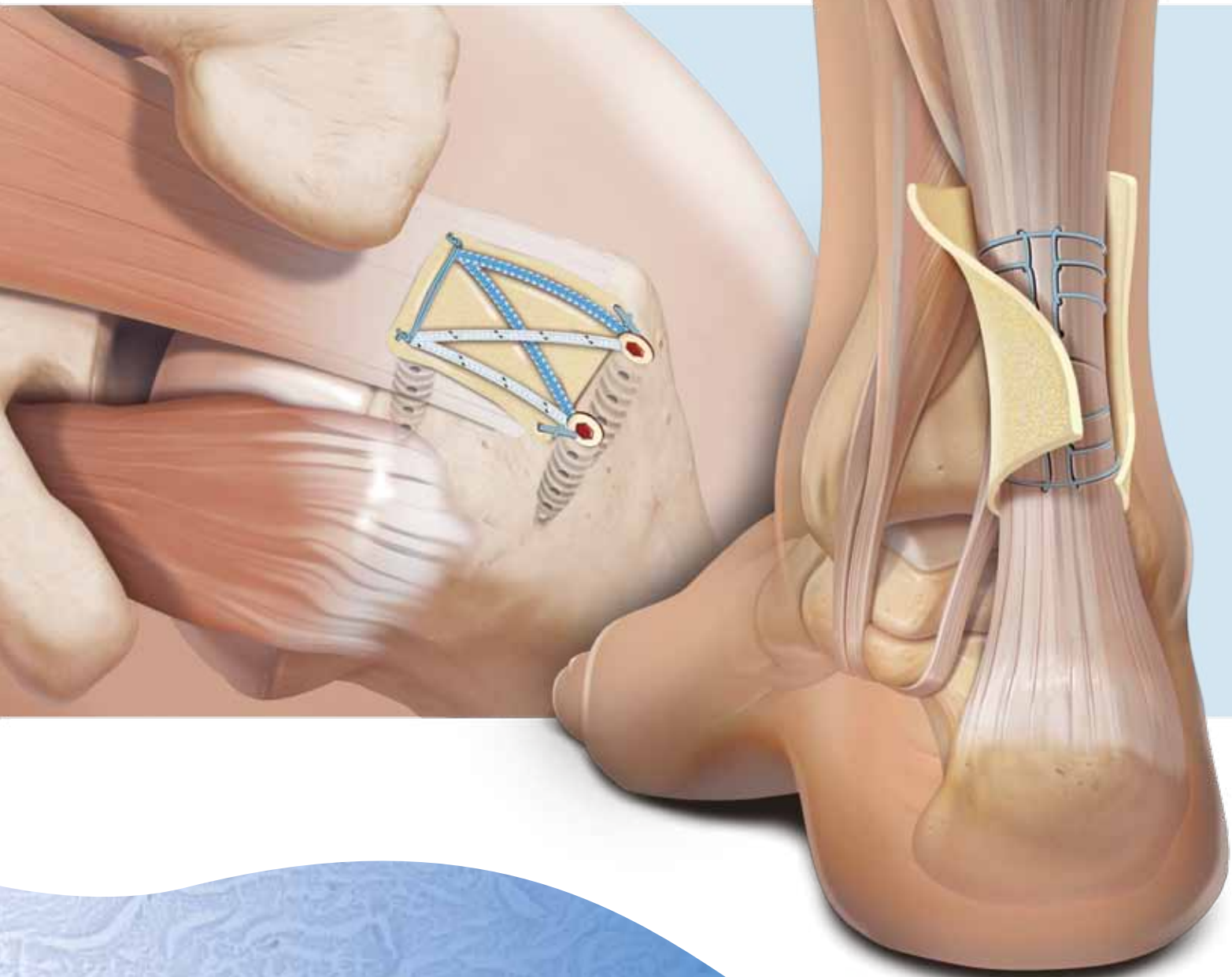


# ArthroFLEX<sup>®</sup>

Acellular Bio-Implant for Soft Tissue Repair



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Acellular Bio-Implant for Soft Tissue Repair

## High Performance Extracellular Matrix

ArthroFlex is an acellular dermal extracellular matrix intended for supplemental support and covering for soft tissue repair. MATRACELL, a patented and validated process by LifeNet Health, renders the ArthroFlex allograft dermis acellular, without compromising biomechanical or biochemical properties. This process allows the matrix to retain its growth factors, native collagen scaffold, and elastin, which is required for healing.



> 97% DNA Removed	Biocompatible
Intact Acellular Extracellular Matrix	Retains growth factors, elastin and native collagen scaffold
Room Temperature Storage (15° - 30° C)	Excellent handling Minimal prep time (less than 60 sec.)
Sterile	10 <sup>-6</sup> SAL (Sterility Assurance Level)

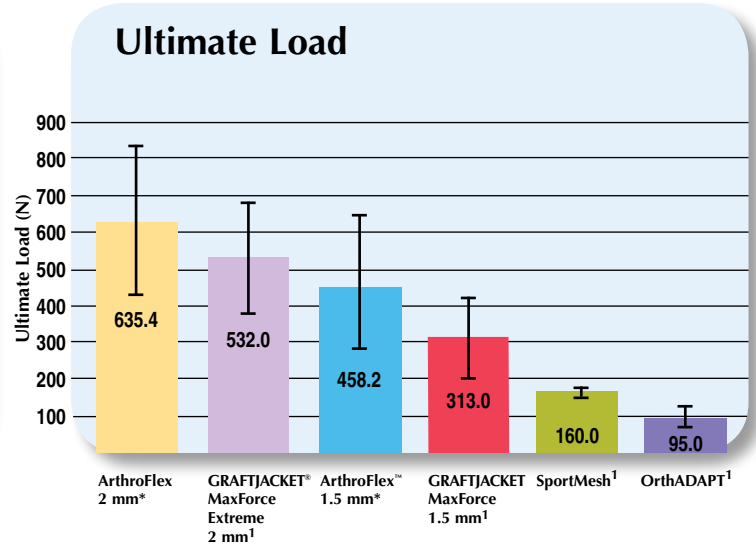
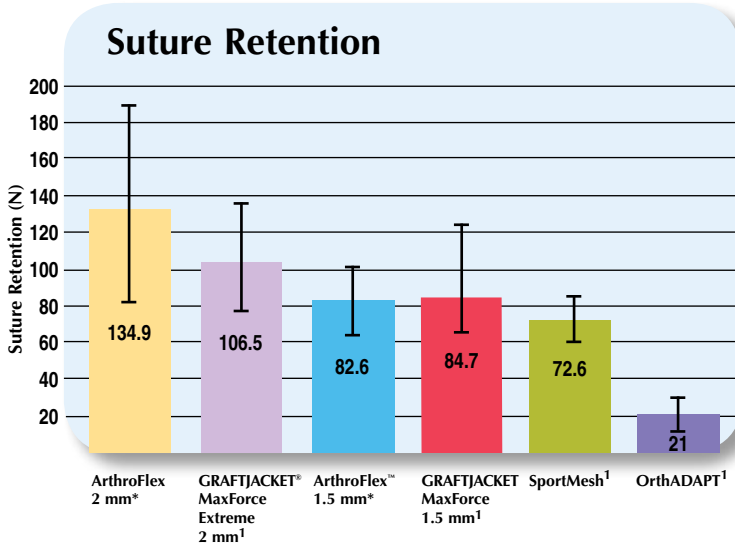
 for 

This patented and validated process renders allograft bio-implants acellular, without compromising the biomechanical or desired biochemical properties of an allograft bio-implant for its intended surgical application.

- Short processing time reduces the opportunity for water-mediated lysis of the natural collagen and elastin scaffold
- Utilizes multiple disinfecting agents to provide for comprehensive tissue disinfection
- Does not utilize any animal-derived reagents
- Uses a validated DNA assessment method, able to detect as little as one nanogram (ng/mL) of nucleic acid to ensure the tissue has been decellularized

# STRENGTH

Elastin and collagen provide unparalleled strength for supplemental support and covering for soft tissue repair.

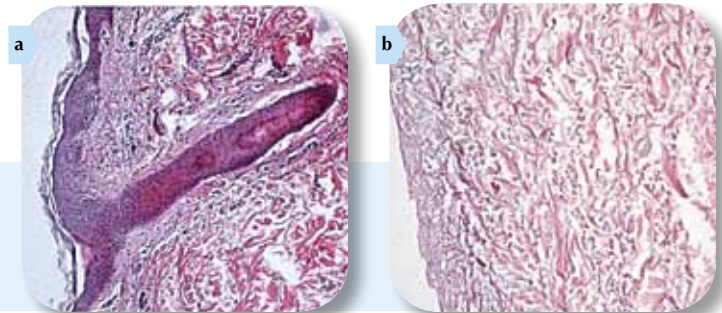


\* Data on file at Arthrex

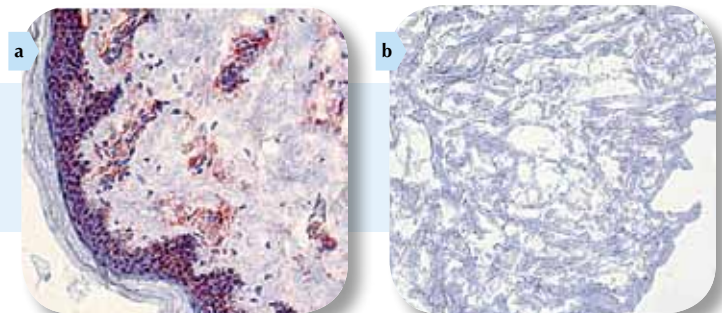
<sup>1</sup>Barber and Aziz-Jacobo, *Arthroscopy*, 2009; 25: 1233-1239. Selected data was derived from Figure 3 (Suture Pull-out) and Table 1 (Ultimate Tensile Strength) of this reference. The two studies were performed at different points in time; however, the exact same methods, fixtures, material testing machine, and facility were used for both studies.

# SAFETY

MATRACELL removes donor DNA from the dermal matrix, ensuring a biocompatible scaffold to facilitate repair.



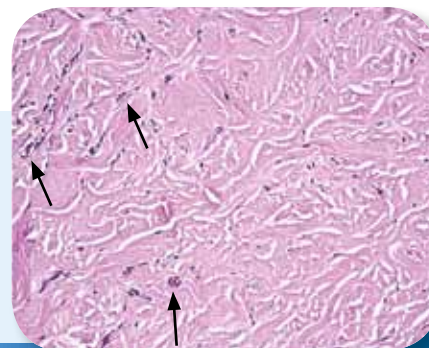
**Figure 1:** Human skin pre (a) and post (b) decellularization (Hematoxylin and Eosin staining)  
*Note absence of cellular components in ArthroFlex.*



**Figure 2:** Human skin pre (a) and post (b) decellularization (Major Histocompatibility Complex 1 staining)  
*Note absence of MHC 1 staining material in ArthroFlex.*

# PERFORMANCE

An intact acellular matrix of collagen, elastin and growth factors provides a clean scaffold intended for supplemental support and covering for soft tissue repair.



**Figure 3:** ArthroFlex explanted after four weeks *in vivo* in a subcutaneous mouse model.\*\* Hematoxylin and Eosin staining was used to identify blood vessels (identified by arrows) in the explanted tissue.

\*\* Data on file at LifeNet Health



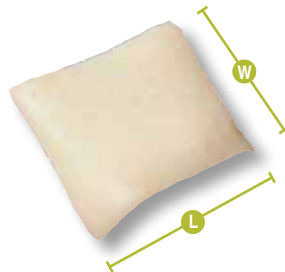
## ArthroFlex Decellularized Dermis

(Thickness = 1.26 mm - 1.75 mm)

Product	Description	Size
AFLEX100	Decellularized Dermis with MATRACELL	35 x 35 mm
AFLEX101	Decellularized Dermis with MATRACELL	40 x 70 mm

(Thickness = 1.76 mm - 2.25 mm)

AFLEX200	Decellularized Dermis with MATRACELL	35 x 35 mm
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*This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's Directions For Use.*

LifeNet Health helps to save lives and restore health for thousands of patients each year. We are the world's most trusted provider of transplant solutions, from organ procurement to new innovations in bio-implant technologies and cellular therapies – a leader in the field of regenerative medicine, while always honoring the donors and health care professionals that allow the healing process.

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