AlloMend®

ACELLULAR DERMAL MATRIX

DOING MORE FOR DEMANDING SOFT TISSUE REPAIR AND RECONSTRUCTION

AlloSource®
Doing More With Life

ALLOMEND® ACELLULAR DERMAL MATRIX

AlloMend Acellular Dermal Matrix (ADM) provides a flexible and reliable allograft that has been used by surgeons for years for demanding soft tissue applications.

Human acellular matrices are used in a broad range of surgical procedures, including:

- Breast reconstruction[1]
- Pelvic organ prolapse[2]
- Superior capsular reconstruction[3]
- Rotator cuff repair[4]
- Tendon augmentation[5]
- Fat pad replacement[6]
- Hernia repair[2]
- Abdominal wall reconstruction[2]

ACELLULAR REGENERATION

Through a proprietary process, viable cells and cellular elements that are capable of triggering an immunogenic response are removed from donated human dermal tissue, leaving behind a collagen elastin matrix. Upon transplantation, the body's own cells infiltrate and repopulate this three-dimensional scaffold to begin the revascularization and remodeling processes.

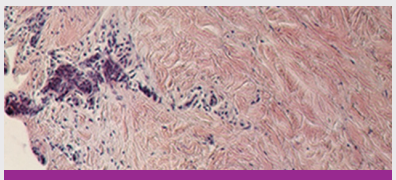
Acellular allograft matrices, unlike synthetic materials or xenografts, are recognized as human tissue by the recipient for graft incorporation, minimizing the risk of inflammation[7] or rejection[8]. AlloMend has been shown to incorporate into the surgical site and demonstrate blood vessel infiltration.[9]

ALLOGRAFT	Minimizes risk of rejection
STERILE	Minimizes risk of infection
ACELLULAR	Minimizes risk of immunologic response
BIOCOMPATIBLE	Minimizes risk of inflammation

DERMATRUE™ DECELLULARIZATION PROCESS

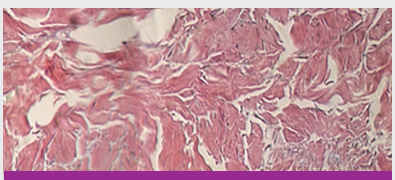
AlloMend ADM is created using AlloSource's proprietary DermaTrue Decellularization Process to remove cellular debris (including DNA, RNA, proteins and antigens), without the use of harsh detergents or enzymes which can leave residuals in the tissue. The dermal tissue is rendered acellular, contributing to a low immunologic response[9], while retaining growth factors and maintaining the morphological collagen structure.[10]

H&E (hematoxylin and eosin) stain review of "before and after" decellularization process.



BEFORE

Noticeable large number of well-defined cell nuclei (purple)



AFTER

Absence of identifiable defined nuclei; no viable cells present

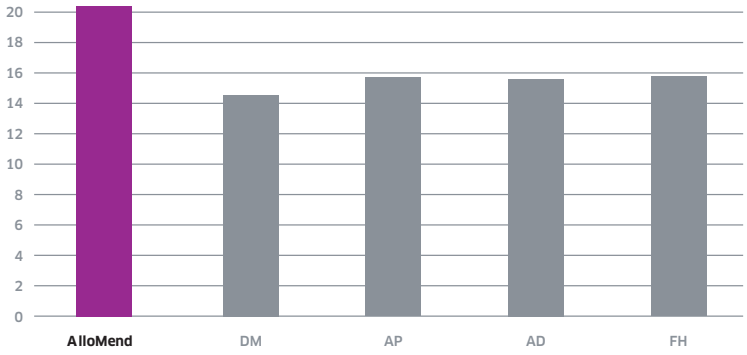
HIGH STRENGTH

AlloMend ADM exceeds the tensile strength of leading acellular dermal matrices for more assurance in surgical repair of integumental tissue.[11]

Ultimate tensile strength is a standard testing methodology to measure the force needed to stretch and break a biomaterial.

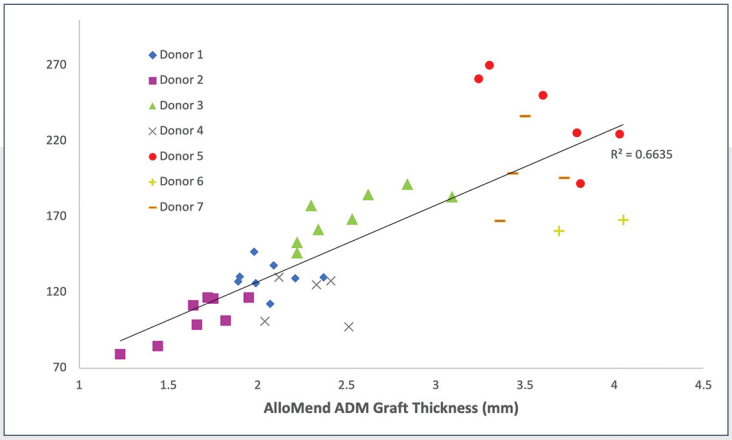
AlloMend ADM also demonstrates high suture retention strength, often exceeding the inherent strength of the sutures themselves. AlloMend Ultra-Thick ADM (from 3.0-4.0 mm), can be expected to have a suture pullout strength of between 161 and 270 N. This helps ensure secure placement during the most demanding soft tissue repair.[12]

ULTIMATE TENSILE STRENGTH (MPa)



Data on file, versus published competitive product specifications

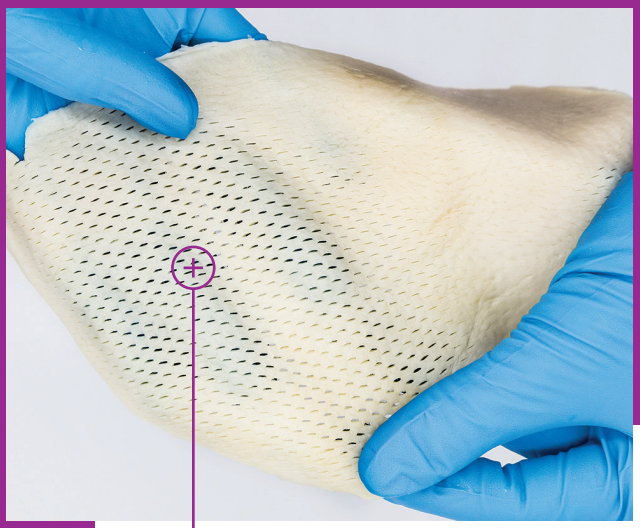
SUTURE PULLOUT STRENGTH (N)



A CLOSER LOOK AT ALLOMEND ADM

- **FLEXIBLE AND PLIABLE MATERIAL**
  optimal handling characteristics enable precision placement
- **AVAILABLE IN A VARIETY OF THICKNESSES, SHAPES AND SIZES**
  suits a wide range of surgical applications
- **MESHED OPTIONS**
  for applications requiring fluid egress or increased graft surface area for incorporation[13]
- **PRECISION PROCESSING**
  consistency of product through proprietary splitting and die-cutting technology
- **TERMINALLY STERILIZED TO A STERILITY ASSURANCE LEVEL (SAL) OF 10^{-6}, WITH E-BEAM TECHNOLOGY**
  minimizes infection risk, while avoiding damaging tissue
- **TWO-YEAR SHELF LIFE AT AMBIENT TEMPERATURE**
  no special handling or storage required
- **RETAINS GROWTH FACTORS**
  known to contribute to the body's healing response[2]
- **PACKAGED MOIST IN STERILE WATER**
  immediately ready to use, no need to wait for product to rehydrate

AlloMend Mesh Shaped ADM in unique elliptical design.



1:1 MESHING RATIO
increases surface area 97.5% for faster fluid egress and potential incorporation[14]

AlloMend® Thick (T)

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
Non-Meshed	1.0–2.0 mm	2 cm	4 cm	8 cm^2	73083008
Non-Meshed	1.0–2.0 mm	4 cm	4 cm	16 cm^2	73083016
Non-Meshed	1.0–2.0 mm	2 cm	12 cm	24 cm^2	73083024
Non-Meshed	1.0–2.0 mm	4 cm	8 cm	32 cm^2	73083032
Non-Meshed	1.0–2.0 mm	4 cm	12 cm	48 cm^2	73083048
Non-Meshed	1.0–2.0 mm	4 cm	16 cm	64 cm^2	73083064
Non-Meshed	1.0–2.0 mm	6 cm	12 cm	72 cm^2	73083072
Non-Meshed	1.0–2.0 mm	6 cm	16 cm	96 cm^2	73083096
Non-Meshed	1.0–2.0 mm	8 cm	16 cm	128 cm^2	73083128
Non-Meshed	1.0–2.0 mm	16 cm	20 cm	320 cm^2	73083320
1:1*	1.0–2.0 mm	16 cm	20 cm	320 cm^2	77383320

*1 cm Non-Meshed border

AlloMend Medium (M)

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
Non-Meshed	0.5–1.0 mm	2 cm	4 cm	8 cm^2	73583008
Non-Meshed	0.5–1.0 mm	4 cm	4 cm	16 cm^2	73583016
Non-Meshed	0.5–1.0 mm	4 cm	8 cm	32 cm^2	73583032
1:1	0.5–1.0 mm	6 cm	16 cm	96 cm^2	73583096
1:1	0.5–1.0 mm	8 cm	16 cm	128 cm^2	73583128
Non-Meshed	0.5–1.0 mm	16 cm	20 cm	320 cm^2	73583320
1:1*	0.5–1.0 mm	16 cm	20 cm	320 cm^2	77583320

*1 cm Non-Meshed Border

1. Kocak E, et al. Biologic matrices in oncologic breast reconstruction after mastectomy. *Expert Review of Medical Devices.* 2014; 11(1): 65-75.
2. Pappas G, et al. Biological mesh in hernia repair, abdominal wall defects reconstruction and treatment of pelvic organ prolapse: A review of the clinical evidence. *The American Surgeon.* 2010; 76(11): 1290-99.
3. Frisella A. Superior capsular reconstruction with AlloMend acellular dermal matrix for reconstruction of a massive, irreparable rotator cuff tear. *AlloSource White Paper.* 2017; 00125-LIT [002].
4. Barber FA, et al. A prospective, randomized evaluation of acellular human dermal matrix augmentation for arthroscopic rotator cuff repair. *Arthroscopy.* 2012; 28(1): 8-15.
5. Wilkins R. Acellular dermal grafts augmentation in quadriceps tendon rupture repair. *Current Orthopaedic Practice.* 2010; 21(3): 315-19.
6. Farrell J. Augmentation of the plantar fat pad using AlloMend acellular dermal matrix. *AlloSource White Paper.* 2017; 00112-LIT [001].
7. Richters C, et al. Development of a dermal matrix from glycerol preserved allogenic skin. *Cell and Tissue Banking.* 2008; 9(4): 309-15.
8. Michael TE. Xenograft risks: What you and your patients need to know. American Academy of Orthopaedic Surgeons. www.aaos.org/news/aaosnow/jun09/research3.asp.
9. Stilwell R, Delaney R. The biomechanics of AlloMend acellular dermal matrix: Biocompatibility study. *AlloSource White Paper.* 2016; 00088-LIT [001].
10. Delaney R, Stilwell R. The biologic properties of AlloMend acellular dermal matrix: Growth factor study. *AlloSource White Paper.* 2016; 00104-LIT [001].
11. Stevens PJ, et al. The biomechanics of AlloMend acellular dermal matrix: Ultimate tensile strength. *AlloSource White Paper.* 2020; 00048-LIT [002].
12. Stilwell R, et al. The biomechanics of AlloMend acellular dermal matrix: Suture retention strength. *AlloSource White Paper.* 2020; 00078-LIT [002].
13. Blume L, Sakthivel R. The biomechanical properties of meshed AlloMend acellular dermal matrix: Fluid egress and surface area. *AlloSource White Paper.* 2019; 00149-LIT [001].
14. Sweitzer K, Caruthers KH. et al. The biomechanical properties of meshed versus perforated acellular dermal matrices (ADMs). *Plast Reconstr Surg Glob Open.* 2021; 9:e345.

FOR MORE INFORMATION OR TO ORDER:

TOLL FREE
800. 557. 3587

ALLOSOURCE.ORG/PRODUCTS/ALLOMEND

AlloMend Extra-Thick (XT)

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
Non-Meshed	2.0–3.0 mm	4 cm	4 cm	16 cm^2	73183016
Non-Meshed	2.0–3.0 mm	4 cm	8 cm	32 cm^2	73183032
Non-Meshed	2.0–3.0 mm	4 cm	16 cm	64 cm^2	73183064
Non-Meshed	2.0–3.0 mm	6 cm	16 cm	96 cm^2	73183096
Non-Meshed	2.0–3.0 mm	8 cm	16 cm	128 cm^2	73183128

AlloMend Ultra-Thick (UT)

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
Non-Meshed	3.0–4.0 mm	4 cm	4 cm	16 cm^2	73283016
Non-Meshed	3.0–4.0 mm	4 cm	8 cm	32 cm^2	73283032
Non-Meshed	3.0–4.0 mm	5 cm	7 cm	35 cm^2	73283035

AlloMend Extra-Large (XL)

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
Non-meshed	0.5–1.0 mm	16 cm	20 cm	320 cm^2	73583320
1:1*	0.5–1.0 mm	16 cm	20 cm	320 cm^2	77583320
Non-meshed	1.0–2.0 mm	16 cm	20 cm	320 cm^2	73083320
1:1*	1.0–2.0 mm	16 cm	20 cm	320 cm^2	77383320

*1 cm Non-Meshed border

AlloMend Mesh Shaped

ACELLULAR DERMAL MATRIX

STORAGE: AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	REF/PRODUCT #
1:1	1.0–2.0 mm	10 cm	18 cm	180 cm^2	77383180

AlloSource, one of the largest human tissue providers, honors tissue donors by creating innovative dermal, cartilage, tendon, fascia, bone, amniotic, and living cellular allografts to help heal patients. Since 1994, we have continued to advance our allografts to improve patient outcomes, serving as a trusted tissue partner to the medical community.

AlloMend® ADM is regulated by the FDA under 21 CFR Part 1271 Human Cells, Tissues, and Cellular and Tissue-Based Products (HCT/Ps). AlloSource® is registered with the FDA as a tissue establishment and accredited by the American Association of Tissue Banks.

6278 S Troy Cir
Centennial, CO 80111
USA

MAIN 720. 873. 0213
TOLL FREE 800. 557. 3587
FAX 720. 873. 0212

allosource.org

AlloSource®
DOING MORE WITH LIFE

00035-LIT[005] - 06/2022