

## Allo Vend® ACELLULAR DERMAL MATRIX



DOING MORE FOR DEMANDING SOFT TISSUE REPAIR AND RECONSTRUCTION



#### **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<sup>1</sup>
- Pelvic organ prolapse<sup>2</sup>
- Superior capsular reconstruction<sup>3</sup>
- Rotator cuff repair<sup>4</sup>

- Tendon augmentation<sup>5</sup>
- Fat pad replacement<sup>6</sup>
- Hernia repair<sup>2</sup>
- Abdominal wall reconstruction<sup>2</sup>

#### **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<sup>7</sup> or rejection<sup>8</sup>. AlloMend has been shown to incorporate into the surgical site and demonstrate blood vessel infiltration.<sup>9</sup>

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<sup>9</sup>, while retaining growth factors and maintaining the morphological collagen structure.<sup>10</sup>

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



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



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.<sup>11</sup>

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.<sup>12</sup>

### 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<sup>13</sup>

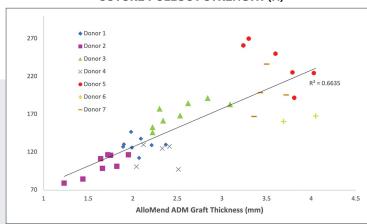
- PRECISION PROCESSING
   consistency of product through proprietary
   splitting and die-cutting technology
- TERMINALLY STERILIZED TO A STERILITY ASSURANCE LEVEL (SAL)
   OF 10-6, WITH E-BEAM TECHNOLOGY minimizes infection risk, while avoiding damaging tissue
- TWO-YEAR SHELF LIFE
   AT AMBIENT TEMPERATURE
   no special handling or storage required
- RETAINS GROWTH FACTORS
   known to contribute to the body's healing response<sup>2</sup>
- PACKAGED MOIST IN STERILE WATER immediately ready to use, no need to wait for product to rehydrate

# ULTIMATE TENSILE STRENGTH (MPa) 20 18 16 14 12 10 8 6 4 2 0

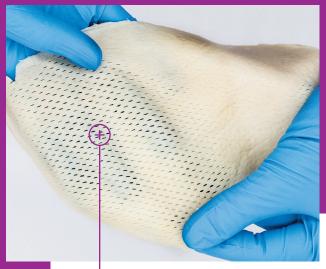
Data on file, versus published competitive product specifications

AlloMend

#### **SUTURE PULLOUT STRENGTH (N)**







#### 1:1 MESHING RATIO

increases surface area 97.5% for faster fluid egress and potential incorporation<sup>14</sup>

#### AlloMend® Thick (T)

ACELLULAR DERMAL MATRIX

**STORAGE: AMBIENT** 

MESH	THICKNESS	WIDTH	LENGTH	AREA	VA Ref. No.
Non-Meshed	1.0-2.0 mm	2 cm	4 cm	8 cm <sup>2</sup>	CLIN0978
Non-Meshed	1.0-2.0 mm	4 cm	4 cm	16 cm <sup>2</sup>	CLIN0979
Non-Meshed	1.0-2.0 mm	2 cm	12 cm	24 cm <sup>2</sup>	CLIN0980
Non-Meshed	1.0-2.0 mm	4 cm	8 cm	32 cm <sup>2</sup>	CLIN0981
Non-Meshed	1.0-2.0 mm	4 cm	12 cm	48 cm <sup>2</sup>	CLIN0982
Non-Meshed	1.0-2.0 mm	4 cm	16 cm	64 cm <sup>2</sup>	CLIN0983
Non-Meshed	1.0-2.0 mm	6 cm	12 cm	72 cm <sup>2</sup>	CLIN0984
Non-Meshed	1.0-2.0 mm	6 cm	16 cm	96 cm <sup>2</sup>	CLIN0985
Non-Meshed	1.0-2.0 mm	8 cm	16 cm	128 cm <sup>2</sup>	CLIN0986
1:1*	1.0-2.0 mm	16 cm	20 cm	320 cm <sup>2</sup>	CLIN01359

\*1 cm Non-Meshed Border

#### AlloMend Medium (M)

ACELLULAR DERMAL MATRIX

**STORAGE:** AMBIENT

MESH	THICKNESS	WIDTH	LENGTH	AREA	VA Ref. No.
Non-Meshed	0.5-1.0 mm	2 cm	4 cm	8 cm <sup>2</sup>	CLIN0992
Non-Meshed	0.5-1.0 mm	4 cm	4 cm	16 cm <sup>2</sup>	CLIN0993
Non-Meshed	0.5-1.0 mm	4 cm	8 cm	32 cm <sup>2</sup>	CLIN0994
1:1	0.5-1.0 mm	6 cm	16 cm	96 cm <sup>2</sup>	CLIN0998
1:1	0.5-1.0 mm	8 cm	16 cm	128 cm <sup>2</sup>	CLIN01167
1:1*	0.5-1.0 mm				CLIN01360

\*1 cm Non-Meshed Border

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- strength. AlloSource White Paper. 2020; 00078-LIT [002].

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#### AlloMend Extra-Thick (XT)

ACELLULAR DERMAL MATRIX

**STORAGE: AMBIENT** 

MESH	THICKNESS	WIDTH	LENGTH	AREA	VA Ref. No.
Non-Meshed	2.0-3.0 mm	4 cm	4 cm	16 cm <sup>2</sup>	CLIN0987
Non-Meshed	2.0-3.0 mm	4 cm	8 cm	32 cm <sup>2</sup>	CLIN0988
Non-Meshed	2.0-3.0 mm	4 cm	16 cm	64 cm <sup>2</sup>	CLIN0989
Non-Meshed	2.0-3.0 mm	6 cm	16 cm	96 cm <sup>2</sup>	CLIN0990
Non-Meshed	2.0-3.0 mm	8 cm	16 cm	128 cm <sup>2</sup>	CLIN0991

#### AlloMend Ultra-Thick (UT)

ACELLULAR DERMAL MATRIX

**STORAGE: AMBIENT** 

MESH	THICKNESS	WIDTH	LENGTH	AREA	VA Ref. No.
Non-Meshed	3.0-4.0 mm	4 cm	4 cm	16 cm <sup>2</sup>	CLIN0995
Non-Meshed	3.0-4.0 mm	4 cm	8 cm	32 cm <sup>2</sup>	CLIN0996
Non-Meshed	3.0-4.0 mm	5 cm	7 cm	35 cm <sup>2</sup>	CLIN0997

#### AlloMend Mesh Shaped

ACELLULAR DERMAL MATRIX

**STORAGE:** AMBIENT

MESH TH	IICKNESS V	VIDIII L	LINGTIT	ANEA	VA Ref. No.
1:1 1.0	-2.0 mm 1	0 cm	18 cm 1	80 cm <sup>2</sup>	CLIN0999

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#### **LEARN MORE:**

**Contact Spartan Medical Inc.** 



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