

XENMATRIX™ Surgical Graft

Regenerative Collagen Matrix



Structure:

- Non-cross-linked collagen matrix.
- Open collagen structure promotes early tissue remodeling and vascularization.
- Available in large sizes up to 19 x 35cm.

Strength:

- Maintains strength throughout the initial healing process.
- Stretches significantly less than human dermis.
- Provides the strength needed to repair large defects.

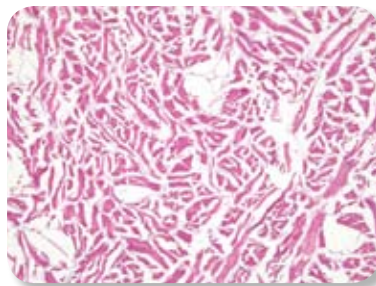
Performance:

- Ease of handling for graft placement.
- Successful outcomes in hernia repair since 2006.

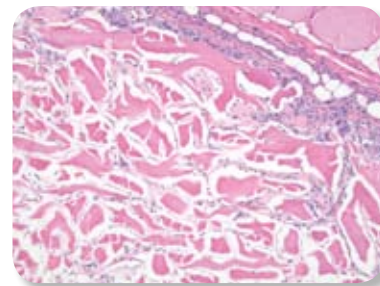
XenMatrix™. One acellular collagen matrix. Many performance advantages.

The unique open structure of the XENMATRIX™ graft encourages tissue integration for hernia and abdominal wall repair. Proprietary manufacturing techniques minimize processing in order to preserve a significant amount of the strength and structure of the graft. This method results in an open structure that allows for early population of host cells and blood vessel formation.

Repairing the abdominal wall with a strong, open collagen scaffold allows early remodeling.



Open collagen structure of XENMATRIX™ Graft, pre-implant, H&E stain 10x.



Abundant cell infiltration, new collagen and blood vessel formation at 2 weeks,¹ H&E stain 10x.

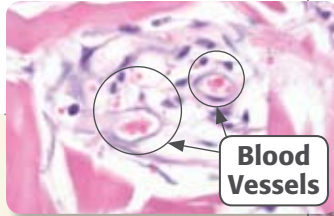
BAIRD
DAVOL INC.

TECHNOLOGY
TECHNIQUE
TRAINING
TRUST

STRUCTURE.

7.5" (19 cm)

Blood vessels, macrophages and endothelial cells in the graft. H&E stain 60x at two weeks.¹



Blood Vessels

■ = Collagen ■ = Cells

- Multiple blood vessels formed as early as two weeks post implantation.¹
- Abundant cell infiltration within the body of the graft.¹
- Documented tissue ingrowth and evidence of vascular integration demonstrated as early as two weeks after implantation in preclinical studies.¹

Open collagen scaffold allows tissue and vascular integration.



New collagen

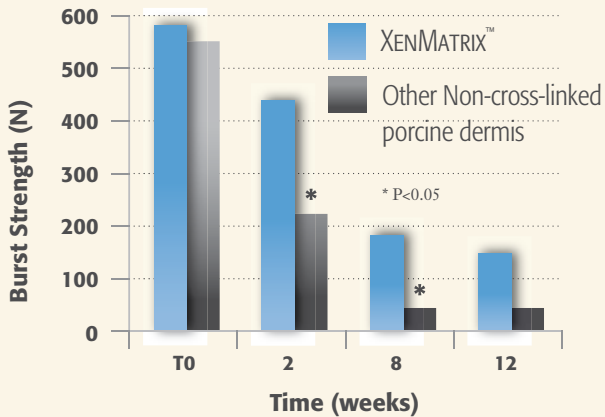
Early collagen deposition, cell penetration and blood vessel formation throughout the graft at two weeks.¹ H&E stain 10x.

STRENGTH.²

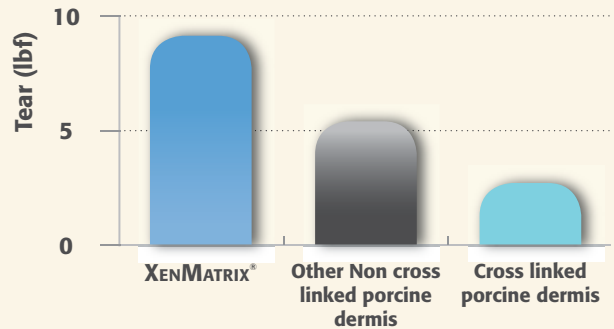
This unique strength and tissue remodeling profile makes the XENMATRIX™ graft well suited for the demands of abdominal wall repair.

- Significantly less stretch than human dermal grafts.²
- Impressive strength profile.
- The XENMATRIX™ graft provides strength and maintains strength through the initial healing period (2–12 weeks).

Burst Strength



Tear Strength (t=0)



Data based on a rat model.
Data may not be indicative of clinical results.

Actual Size of Extra-Large Matrix

PERFORMANCE.

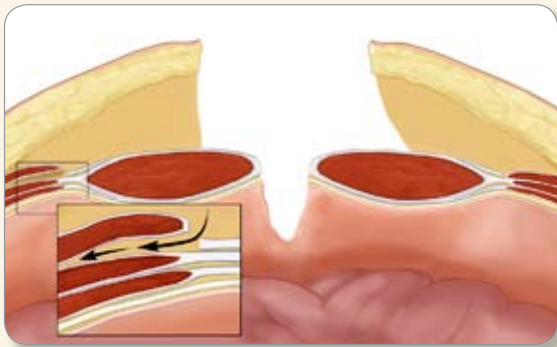
Ease of Use

- Available in extra large sizes up to 19 x 35 cm to eliminate the need for quilting multiple pieces.
- Provided prehydrated, no lengthy hydration times.
- Can be cut to fit intra-operatively.
- Can be stored at room temperature.

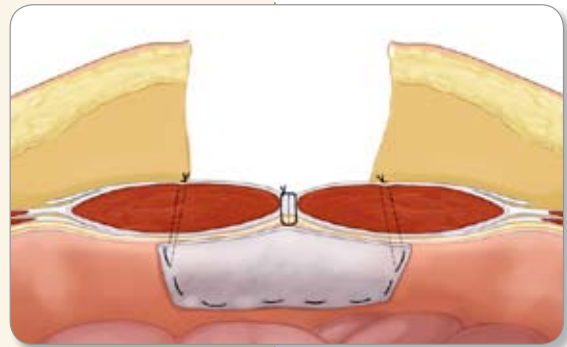
Surgical Experience

- Preclinical studies demonstrate the strength and remodeling.
- Successfully used in surgery for hernia repair since 2006.

Component Separation Technique Recommendations



Release the external oblique muscle.



Bring the midline together and place the XENMATRIX™ graft intraperitoneal.

- Place the device in maximum possible contact with healthy, well-vascularized tissue to promote cell ingrowth and tissue remodeling.
- The graft should be large enough to cover the entire defect and provide a minimum overlap of 3–5 cm.
- Fixate with suture under minimal tension.

Actual Size of Extra-Large Matrix

14" (35 cm)



XENMATRIX™ Surgical Graft

is just one in a complete family
of hernia repair products:

Ventral Hernia Repair Products

VENTRALEX™ Hernia Patch
 VENTRIO™ Hernia Patch
 SEPRAMESH™ IP Composite
 COMPOSIX™ L/P Mesh
 DULEX™ Mesh
 COLLAMEND™ FM Implant
 ALLOMAX™ Surgical Graft
 XENMATRIX™ Regenerative Collagen Matrix

Inguinal Hernia Repair Products

PERFIX™ Plug
 3DMAX™ Mesh
 MK™† Patch
 BARD™ Soft Mesh
 VISILEX™ Mesh
 BARD™ Mesh Flats and Pre-Shapes

Specialty Products

CK™ Parastomal Hernia Patch
 CRURASOFT™ Patch

Fixation Products

SORBAFIX™ Absorbable Fixation System
 PERMASORB™ Disposable Fixation Device

Bard Surgical Education

Clinical Education Program

National education centers offer instruction
in surgical techniques and the ability to
view live surgery.

Speaker Program

Educational presentations are given at Grand
Rounds, Society Meetings and other venues.

Procedure Introduction Kits

Video programs that describe specific hernia
repair techniques and their benefits to you,
your patients and your surgical practice.

These services are available for many of the
BARD® hernia repair products. Please ask your
representative, or visit www.davol.com.

DAVOL INC.

Davol Inc. • Subsidiary of C. R. Bard, Inc.
 100 Crossings Boulevard • Warwick, RI 02886
 1.800.556.6275 • www.davol.com
 Medical Services & Support 1.800.562.0027

Catalog Number	Quantity	Size	Diameter	
1161015	1/cs.	Rectangle	3.9" x 5.9" (10.0 cm x 15.0 cm)	<input type="checkbox"/>
1161520	1/cs.	Rectangle	5.9" x 7.9" (15.0 cm x 20.0 cm)	<input type="checkbox"/>
1161928	1/cs.	Rectangle	7.5" x 11.0" (19.0 cm x 28.0 cm)	<input type="checkbox"/>
1161935	1/cs.	Rectangle	7.5" x 13.8" (19.0 cm x 35.0 cm)	<input type="checkbox"/>

*Thickness 1.8 mm to 2.5 mm.

Please add the XENMATRIX™ Surgical Graft to my preference card.

I would like to have the XENMATRIX™ Surgical Graft in stock.

Surgeon's Signature _____

Purchase Order Number _____

Catalog Number _____

Date _____ Quantity _____

References:

¹Data generated from animal study. Data on file. Results may not correlate to performance in humans.

²Data generated from bench study. Data on file. Results may not correlate to performance in humans.

3DMax, AlloMax, Bard, CK, CollaMend, Composix, CruraSoft, Davol, Dulex, Kugel, MK, PerFix, PermaSorb, SorbaFix, Ventralex, Ventrilo, Visilex and XenMatrix are trademarks and/or registered trademarks of C. R. Bard, Inc. or an affiliate.

Sepramesh is a registered trademark of Genzyme Corporation licensed to C. R. Bard, Inc. or an affiliate.
 Please consult product labels and inserts for any indications, contraindications, hazards, warnings, precautions,
 and instructions for use.

† Modified Kugel™ Patch

© Copyright 2009, C. R. Bard, Inc. All Rights Reserved.

MMXMSS