

Regenerative Medicine Product Portfolio



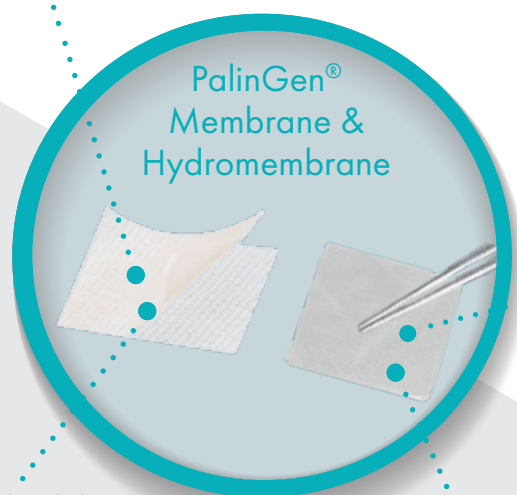
BENEFITS OF PLACENTAL TISSUE:^{3*}

- ✓ Non-Immunogenic
- ✓ Tissue regeneration/remodeling
- ✓ Anti-bacterial
- ✓ Anti-adhesive/anti-scarring
- ✓ Anti-inflammatory
- ✓ Anti-microbial

Contains key growth factors and extracellular matrix proteins recognized as intrinsic to the wound healing process²

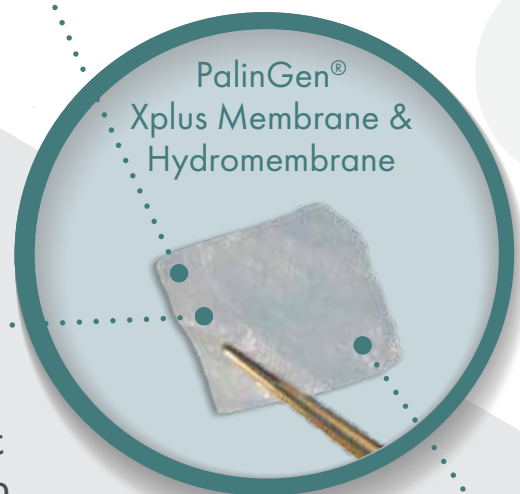
- Platelet Derived Growth Factor (PDGF) A & B
- Vascular Endothelial Growth Factor (VEGF)
- Transforming Growth Factor beta (TGFβ)
- Fibroblast Growth Factor (FGF)
- Epidermal Growth Factor (EGF)
- Tissue Inhibitors of Metalloproteinases (TIMPs)
- Collagen Types I, III, IV, V, VII
- Laminin
- Fibronectin
- Proteoglycans
- Hyaluronic Acid (HA)

Surgical Barrier
Designed to reduce scar tissue and inflammation¹



PalinGen® Membrane & Hydromembrane

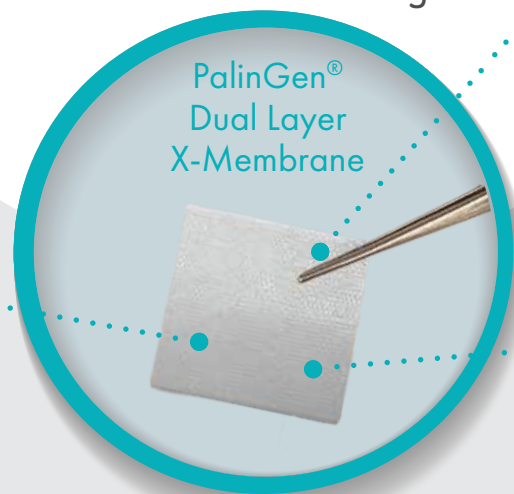
Membrane/ Hydromembrane
Available in a dry or wet form



PalinGen® Xplus Membrane & Hydromembrane

Wound Covering
Provides a biological and physical overlay to support and protect a wound in vivo

Biomechanical Integrity
Offers greater tensile strength, shape manipulation, and slower resorption in vivo⁴



PalinGen® Dual Layer X-Membrane

Dual-Layer
Two layers of amniotic tissue provides a thicker graft with 2x the growth factors

Easy to Use
Facilitates handling for use in robotic and laparoscopic surgical procedures

PalinGen® Membrane Processing

PalinGen amniotic membranes are donated by healthy, pre-screened, consenting women and processed in accordance with FDA regulations and AATB standards

DONOR SCREENING

A thorough medical/social history is obtained to ensure donor eligibility requirements are met

INFECTIOUS DISEASE TESTING

- HBsAg
- HIV NAT
- RPR/STS
- HBcAb
- HIV 1/2Ab
- WNV
- HCV NAT
- HBV NAT
- HTLV I/II

TISSUE COLLECTION

Placental tissue is collected from live births in the US and does not require fetal sacrifice

TISSUE PROCESSING

All tissue undergoes a proprietary cleansing process to remove blood contaminants & reduce bioburden

STERILIZATION

Tissue is terminally sterilized for an additional level of safety and subjected to stringent USP testing

*Based on published studies; not specific to PalinGen Amniotic Membranes

1.. Sinno H, Prakash S. Complements and the Wound Healing Cascade: An Updated Review. *Plast Surg Int.* 2013;146764.

2. Tao H, Fan H. Implantation of amniotic membrane to reduce postlaminectomy epidural adhesions. *Eur Spine J.* 2009;18(8):1202–1212.

3. Martin LF, et al. Characteristics, Properties, and Functionality of Fetal Membranes: An Overlooked Area in the Field of Parturition. *Encyclopedia of Reproduction*, 2nd Edition. 2018;3:387–398.

4. Spoerl E, et al. Cross-Linking of Human Amniotic Membrane by Glutaraldehyde. *Ophthalmic Res.* 2004;36(2):71–7

✓ **Chorion Free:**
Eliminates orientation restrictions in surgical repair

Ordering Information

Amniotic Membrane

Product Description	Size	Product Code
PalinGen® Membrane	1 x 1cm	PM-020101
	1 x 2cm	PM-020102
	2 x 2cm	PM-020202
	2 x 3cm	PM-020203
	2 x 4cm	PM-020204
	2 x 6cm	PM-020206
	4 x 4cm	PM-020404
	4 x 6cm	PM-020406
	4 x 8cm	PM-020408
	8 x 8cm	PM-020808
PalinGen® Hydromembrane	1 x 1cm	PH-030101
	1 x 2cm	PH-030102
	2 x 2cm	PH-030202
	2 x 3cm	PH-030203
	2 x 4cm	PH-030204
	2 x 6cm	PH-030206
	4 x 4cm	PH-030404
	4 x 6cm	PH-030406
	4 x 8cm	PH-030408
	8 x 8cm	PH-030808

Product Description	Size	Product Code
PalinGen® XPlus Membrane	1 x 1cm	XM-020101
	1 x 2cm	XM-020102
	2 x 2cm	XM-020202
	2 x 3cm	XM-020203
	2 x 4cm	XM-020204
	2 x 6cm	XM-020206
	4 x 4cm	XM-020404
	4 x 6cm	XM-020406
	4 x 8cm	XM-020408
	8 x 8cm	XM-020808
PalinGen® XPlus Hydromembrane	1 x 1cm	XH-040101
	1 x 2cm	XH-040102
	2 x 2cm	XH-040202
	2 x 3cm	XH-040203
	2 x 4cm	XH-040204
	2 x 6cm	XH-040206
	4 x 4cm	XH-040404
	4 x 6cm	XH-040406
	4 x 8cm	XH-040408
	8 x 8cm	XH-040808
PalinGen® Dual Layer X-Membrane	2 x 3cm	DLX-020203
	4 x 4cm	DLX-020404
	4 x 6cm	DLX-020406
	4 x 8cm	DLX-020408



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