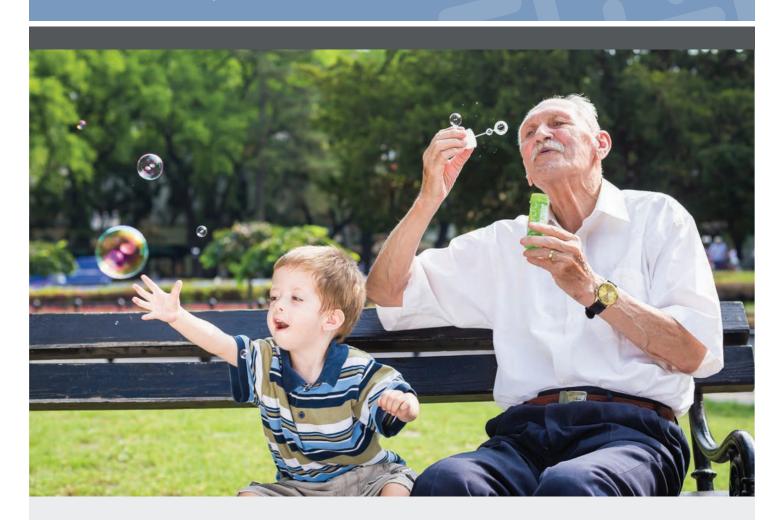


Antimicrobial

Dermal Template



endoform Antimicrobial

All the benefits of a unique extracellular matrix (ECM) plus ionic silver which supports all phases of healing

- Broad spectrum antimicrobial activity for up to 7 days
- Prevents biofilm formation
- Non-cytotoxic to dermal cells

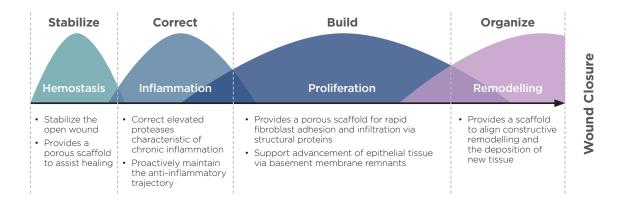




Antimicrobial Dermal Template

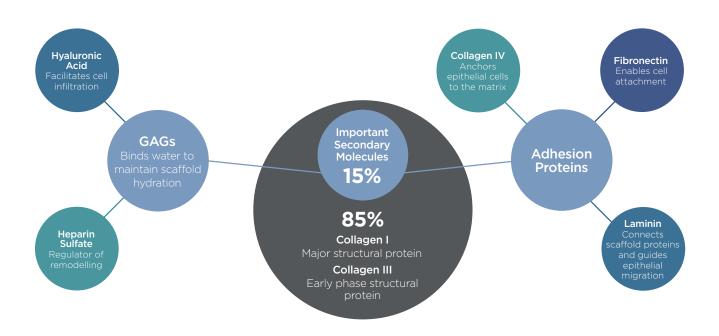
Endoform's unique ECM technology is designed for all phases of healing to stabilize, correct, build and organize tissue in acute and chronic wounds.¹

Endoform can be used at all phases of wound management



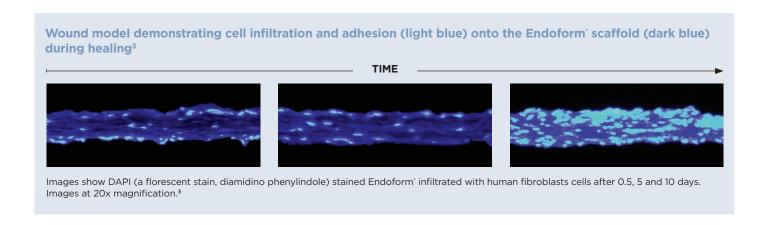
Endoform[®] includes 148 secondary molecules that are important for healing

The composition of **Endoform**'s ECM enables it to interact with patients' cells during the phases of healing. **Endoform**' is 85% collagen and 15% important secondary molecules including 148 structural and adhesion proteins, and glycosaminoglycans (GAGs)². **Endoform**' only contains components that are found in tissue ECM.



Endoform® provides a biologically accurate ECM scaffold

Endoform* is minimally processed so the ECM is not damaged. It provides a biologically accurate, porous structure that supports rapid epithelial and fibroblast infiltration. Over time the scaffold is completely remodeled as new tissue is laid down.



Natural molecular structure

Endoform* preserves the natural form of its molecular components.

The paperclip analogy demonstrates how loss of structure results in loss of functionality.

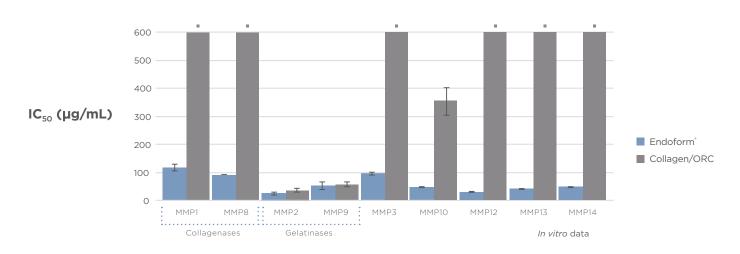


Endoform helps indicate the presence or absence of proteases and restores balance

Chronic wounds are characterized by elevated wound proteases that limit healing by digesting important dermal proteins.

While other dressings may only modulate the gelatinases MMP2 and MMP9, **Endoform*** has been shown to target multiple wound proteases including MMP1, MMP8, MMP13, MMP3, MMP10, MMP9, MMP12, MMP14 and neutrophil elastase. If **Endoform*** is not visible in the wound bed at the time of reapplication, this can indicate elevated wound protease activity. However, if **Endoform*** is visible, this can indicate that protease balance has been restored. S

Endoform' shows significantly greater modulation of wound proteases vs Collagen/ORC4



Endoform[®] Antimicrobial provides broad spectrum antimicrobial activity for up to 7 days

Unlike some existing collagen silver dressings that have a limited duration of up to 3 days, **Endoform' Antimicrobial** provides sustained protection from microbial contaminants for up to 7 days, including drug resistant strains, yeasts and molds.⁶

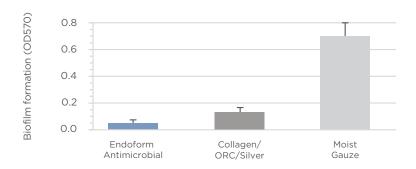
	Species	Day 7
	Methicillin Resistant Staphylococcus aureus (MRSA)	
Gram	Staphylococcus epidermidis (coagulase negative)	
positive	Streptococcus pyogenes (Group A, ß-hemolytic)	
	Vancomycin Resistant Enterococcus faecalis (VRE)	
	Pseudomonas aeruginosa	
Gram negative	Escherichia coli	
3	Acinetobacter baumannii	
	Aspergillus brasiliensis (niger)	F
Yeasts	Candida albicans	F
& molds	Candida glabrata	F
	Candida parapsilosis	K



Endoform® Antimicrobial prevents biofilm formation

Biofilm formation is associated with delayed wound healing and an increased risk of infection for the patient.

Endoform* Antimicrobial has been shown to prevent the formation of biofilm.7

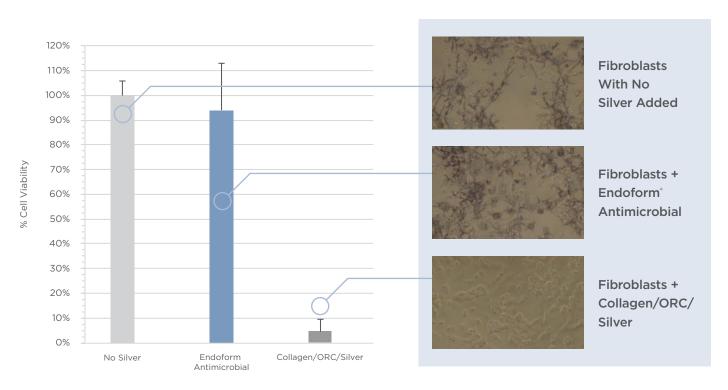


An *in vitro* model of polymicrobial biofilm prevention following 24 h exposure of the test sample



Antimicrobial Dermal Template

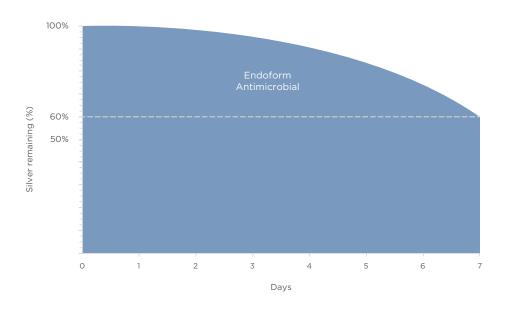
Endoform® Antimicrobial is non-toxic towards fibroblasts®



Cell viability assay; 3T3 fibroblasts exposed to test samples for 24 hours

Why is Endoform[®] Antimicrobial non-cytotoxic and long acting?⁹

The ionic silver present in **Endoform' Antimicrobial** is bound to the matrix for up to seven days to provide sustained antimicrobial protection without cytotoxicity.





Antimicrobial Dermal Template





Ordering information

Endoform' Antimicrobial Dermal Template - Fenestrated				
Stock no.	Product Size	Quantity/Box	HCPCS	
629312	2x2" (5cm x 5cm) fenestrated	10	A6021	
629314	4x5" (10cm x 12.7cm) fenestrated	10	A6022	

Endoform	Endoform' Antimicrobial Dermal Template - Non Fenestrated			
Stock no.	Product Size	Quantity/Box	HCPCS	
629311	2x2" (5cm x 5cm) non-fenestrated	10	A6021	
629313	4x5" (10cm x 12.7cm) non-fenestrated	10	A6022	





Indications For Use:

Endoform* Antimicrobial Dermal Template is indicated for the management of wounds including, partial and full thickness wounds, pressure ulcers, venous ulcers, diabetic ulcers, chronic vascular ulcers, tunneled/undermined wounds, surgical wounds (donor sites, grafts, post Moh's surgery, post laser surgery, podiatric, and wound dehiscence), traumatic wounds (abrasions, lacerations, first and second degree burns, and skin tears), and draining wounds.

Endoform® Antimicrobial, like other silver-containing products, may darken upon storage, after hydration in saline, when exposed to light, or when in contact with body fluids and tissues. This darkening does not affect product performance.

- Bohn G. Proactive and early aggressive wound management:
- Bohn G. Proactive and early aggressive wound management: A shift in strategy developed by a consensus panel examining the current science, prevention and management of acute and chronic wounds. Wounds. 2017 Nov. 29(11):S37-S42.
 Data on file.
 Lun, S., S. M. Irvine, K. D. Johnson, N. J. Fisher, E. W. Floden, L. Negron, S. G. Dempsey, R. J. McLaughlin, M. Vasudevamurthy, B. R. Ward and B. C. H. May (2010). "A functional extracellular matrix biomaterial derived from ovine forestomach." Biomaterials 31(6): 4517-4529.
 Negron, L., S. Lun and B. C. H. May (2014). "Ovine forestomach matrix biomaterial is a broad spectrum inhibitor of matrix metalloproteinases and neutrophil elastase." Int Wound J 11(4): 393-397.
- matrix metalloproteinases and neutrophil elastase." Int Wol 11(4): 392-397.

 5. Champion S, Bohn G (2015). "Dressing appearance at change can give insight into dressing effectiveness in the wound". Symposium on Advances in Skin & Wound Care Spring, New Orleans, LA

 6. Data on file.

 7. Data on file.

 9. Data on file.

RX Only. Prior to use, be sure to read the entire Instructions For Use package insert supplied with the product.

For product questions, sampling needs, or detailed clinical questions concerning our products in the US, please call please call 1-877-627-6224 or email customerservice@aroabio.com.

HCPCS are for reference only and subject to change.



Manufactured for: AROA BIOSURGERY INC

7220 Trade Street, Suite 306, San Diego, CA 92121 1-877-627-6224 www.aroabio.com

MKT.1401.03 | March 2021

Endoform* is a registered trademark of Aroa Biosurgery Limited