

COLLAFLEX[®]

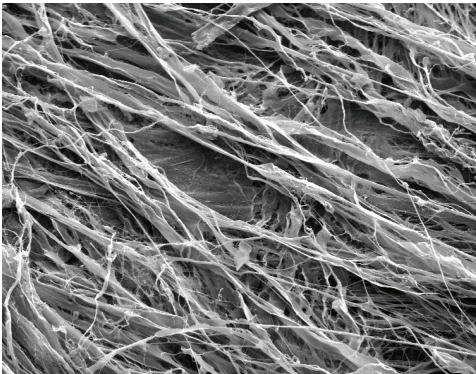
Pericardium Collagen Membrane

CollaFlex[®] membranes are derived from porcine pericardium through careful purification and sterilization processes to avoid antigenic reactions. CollaFlex[®] membranes retain the natural collagen fibrils and honeycomb structure of the pericardium.



Easy Handling

- Easy to reposition and unfold
- Conforms well to the defect shape



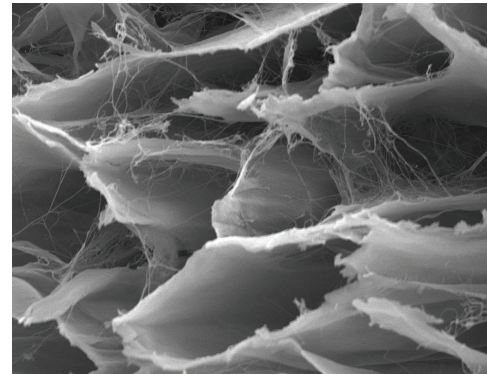
Collagen Fibrils

- Facilitate cellular attachment
- Improve wound healing



Available Sizes

- 15 x 20mm
- 20 x 30mm
- 30 x 40mm



Honeycomb Matrix

- Up to 24 weeks resorption
- Fit for sausage technique

COLLAFLEX®

Pericardium Collagen Membrane

High Regeneration Performance

The performance of CollaFlex® membrane was evaluated in a beagle dog model. Bilateral mandibular premolar teeth (#2, #3 and #4) were surgically extracted from 12 beagle dogs. 12 weeks after extraction, a critical size defect (5x5x5mm) was created in each site. Each defect was filled with Bio-Oss® bone graft and randomly covered with or without a CollaFlex® membrane in accordance with guided bone regeneration procedures. Post-operation, wound healing was calm and uneventful. Progressions of bone regeneration and membrane resorption were determined by histological analysis on harvested tissues at 4, 8, 12 and 24 weeks post-operation. At each time point, the membrane group exhibited significantly more bone formation than the negative control group. CollaFlex® membranes largely resorbed within 24 weeks after implantation.

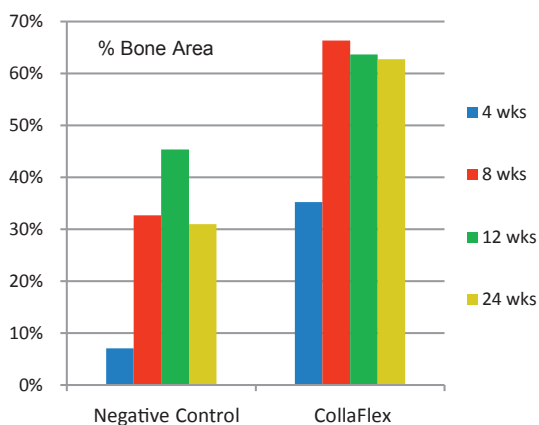


Figure 1. Percent bone area per histology analysis

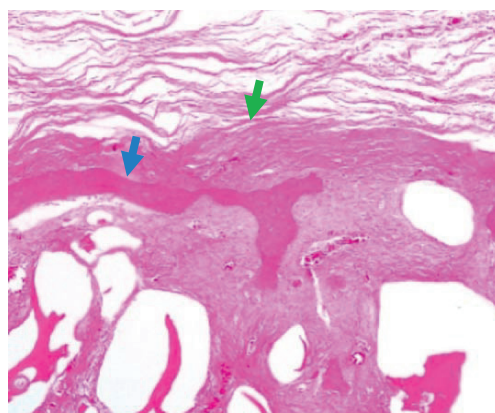


Figure 2. Histological appearance of a grafted area at 8 wks. Blue arrow: new bone tissue, Green arrow: barrier membrane. The membrane exhibited superficial resorption, but retained structural integrity.

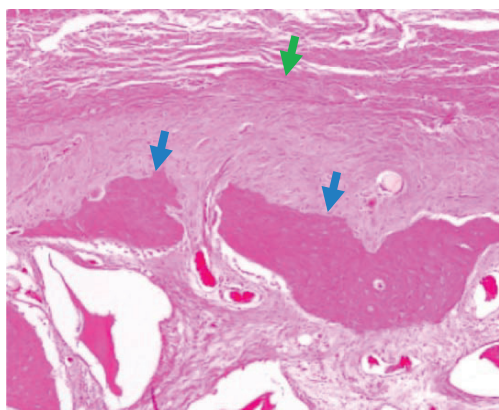


Figure 3. Histological appearance of a grafted area at 12 wks. More new bone regenerated and remodeled. The image revealed a thinner membrane with intact frame.

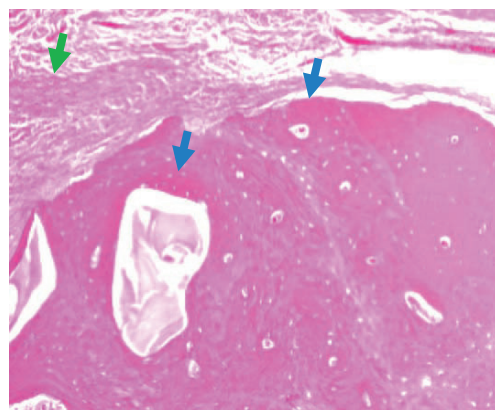


Figure 4. Histological appearance of a grafted area at 24 wks. Regenerated bone with matured and organized Harversian structure. The membrane was largely resorbed.