The extra-cellular matrix of Amniotic Membrane (AM) contains Collagen I, II, IV, V, VI, VII, fibrous proteins that provide a structural scaffold to support cellular migration. Fibronectin, integrin, laminin and hyaluronan are also found in AM and play a role in proliferation, differentiation and adherence to the area of application.1,2

Growth factors contained in Amniotic Membrane, which include PDGF, VEGF, EGF, FGF, and TGF-β, support cell proliferation and migration across defects. This combination of proteins work with the body’s own cells to modulate tissue reconstruction to minimize scar formation.3,4

Amniotic Membrane has been described in the literature to reduce pain in burns and wounds.7 It has been shown histologically to create a nice epithelial layer of cells which is associated with the reduction of adhesions.8

Amniotic Membrane is “immune privileged”, possessing little or no risk of foreign body reaction, which makes Amniotic Membrane suitable for allogeneic transplants.5 Application of Amniotic Membrane has been shown to reduce bacteria counts in wounds against a wide range of bacteria.6

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MISSION STATEMENT

At Genesis Biologics, we value the gift of life and are guided by our commitment to provide premium allograft tissues that are both clinically effective and proven safe.

Our pledge to you, the medical community, is to provide the highest quality products, excellent customer service, and the most up-to-date technologies in the tissue banking industry.

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REFERENCES