Esano™ ACA

Amnion / Chorion / Amnion Membrane Allograft

BIO MEDICAL WORK

Allograft Membranes

We are transforming the regenerative therapeutics market, bringing the power of human evolution to the healing of all.

Contact us
cs@biomedicalwork.com

Why amniotic membrane?

Human amniotic membrane forms the innermost layer of placenta tissue. The avascular membrane acts as a protective barrier for the developing fetus. Its properties provide a wide variety of potential benefits in regenerative medicine.

Protective covering
The membrane sheet provides a protective covering that may aid in wound management

Immunogenicity
The amniotic membrane has unique non-immunological properties[1]

Scaffold
The extracellular matrix acts as a scaffolding and potentiates the migration and adhesion of resident cells[2]

Growth Factors
Natural cytokines in the membrane[3]

Why Esano ACA

Esano ACA is intended for the repair, reconstruction, replacement, or supplementation of a patient's injured tissue.

Benefits of Esano™ ACA:

- Placental tissue allograft composed of three layers: amnion, chorion, amnion
- Non-side specific orientation for application
- Thicker membrane for deep wounds or exposed anatomy that can be easily positioned or repositioned for improved conformity [4,5]
- Enhanced tensile strength, adheres well, and easy to apply
- Can be used in a hydrated or dehydrated state
- Retains important major structural proteins and ECM biochemicals that are naturally present in placental tissue[6]

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[1] Park C, Y, Kohanim S, Zhu L, Gehlbach P, L, Chuck R, S: Immunosuppressive Property of Dried Human Amniotc Membrane. Ophthalmic Res 2009;41:112-113. doi: 10.1159/000187629.
[2] The presence of extracellular matrix was confirmed by internal measurements of collagen (Sirius Red, Chondrex) and Hyaluronic Acid (Hyaluronan Quantkine ELISA Kit, R&D Systems).
[3] The presence of growth factors confirmed by 3rd party testng using Fluorescent Multplex ELISA (Quantbody® Human Growth Factor Array, Ray BioTech).
[4] Oyen ML, Cook RF, Calvin SE. Mechanical failure of human fetal membrane tissues. J Mater Sci Mater Med 2004;15:651–658.
[5] Chua WK, Oyen ML. Do we know the strength of the chorioamnion? A critical review and analysis. Eur J Obstet Gyn Reprod Biol 2009; 144(Suppl 1): S128–133.
[6Data on File