



# Biolieve™

## Decellularized Placental Membrane

**Clinical Overview** Biolieve is the only decellularized placental membrane to include all the native layers, including the trophoblast layer. The graft serves as a protective covering for tendons, ligaments, and nerves during soft tissue repair.

- Applications**
- Protective covering for soft tissue repairs
  - Cover and protect rotator cuff tendon repairs, nerve tissue, and ligament reconstruction
  - Protective covering and barrier for large incisions created during arthroplasty, tendon transfers, or other open procedures

- Features & Benefits**
- **Superior Handling and Suturability:** Retains the trophoblast layer for increased durability to hold suture and remains intact after being wrapped around a tendon and passed through a cannula.<sup>3</sup>
  - **Up to Four-Times Thicker than Other Placental Membranes:** The trophoblast layer contributes >50% of the graft thickness<sup>1</sup>, making Biolieve up to four-times thicker than placental membranes that don't contain the trophoblast layer.<sup>6</sup>
  - **Retains More Native Extracellular Components:** Retains up to twice the extracellular matrix components, such as growth factors, cytokines, proteoglycans, and hyaluronic acid, compared to grafts that do not include the trophoblast layer.<sup>1</sup>
  - **Convenient:** Room-temperature storage (10-30°C) and rehydrates quickly for ease of use.<sup>2</sup>
  - **Versatile:** Available in multiple sizes for a wide range of applications.<sup>2</sup>
  - **Proven Technology:** Uses Matracell® technology to remove cells, DNA, and RNA to decrease the likelihood of an immune response.<sup>4</sup>
  - **Increased Safety:** A Sterility Assurance Level (SAL) of 10<sup>-6</sup> lowers the risk of disease transmission.<sup>4,5</sup>





## Biolieve Decellularized Placental Membrane

Room Temperature Storage (10° C to 30° C) / 1 Year Shelf Life

Size	Order Code
2 x 2 cm	BLIEVE-202
2 x 3 cm	BLIEVE-203
2 x 8 cm	BLIEVE-208
3 x 3 cm	BLIEVE-303
4 x 4 cm	BLIEVE-404
4 x 6 cm	BLIEVE-406
4 x 8 cm	BLIEVE-408
7 x 7 cm	BLIEVE-707

Instructions for use available at [LifeNetHealth.org/IFU](https://www.lifenethealth.org/IFU)

### References

1. LifeNet Health. TR-004-2020. Characterization of the Amnion, Chorion, and Trophoblast Layers of Decellularized and Freeze-Dried Placental Membrane.
2. LifeNet Health. 63-0290. Biolieve Instructions for Use.
3. LifeNet Health. ES-21-056, Placental Membrane for Sports Medicine: Design Validation.
4. Moore MA, Samsell B, Wallis F, Triplett S, Chen S, Jones AL. Decellularization of human dermis using non-denaturing anionic detergent and endonuclease: a review. Cell Tissue Bank. 2015;16(2): 249-59.
5. LifeNet Health. 10-008, Process, PQ, Method 2B Terminal Sterilization Validation for the Devitalized Dermis Allografts Family. Data on file.
6. Verbruggen SW, Oyen ML, Phillips ATM, Nowlan NC. 2017. Function and failure of the fetal membrane: Modeling the mechanics of the chorion and amnion. PLoS ONE 12(3): 30171588. doi:10.1371/journal.pone.0171588.

