Matrion™

Placental Membrane

Clinical Overview

Matracell® decellularization technology, results in the first naturally intact, full-thickness, decellularized placental membrane. Matrion is one of the first decellularized placental grafts to utilize all three layers of the placental membrane, including the trophoblast layer.

Applications

As a barrier membrane for chronic wounds, including diabetic foot ulcers, venous stasis ulcers, pressure ulcers and dehisced surgical wounds.

Features & Benefits

- **Handling:** Matrion's inclusion of the amnion, chorion and trophoblast layers results in a graft that is up to four times thicker than the Amniotic and Chorionic membranes.[1]
- **Convenience:** No need to rehydrate, thaw or otherwise prepare prior to application.
- **Safety:** Up to four times thicker than traditional bilayer grafts, Matrion provides a more substantial barrier, preventing fluid loss as well as bacterial ingress.[2]
- **Sterility:** Sterilized to a Sterility Assurance Level (SAL) of 10^{-6}, medical device grade sterility.[3]
- **Growth Factor Retention:** Matrion retains more endogenous growth factors than other placental membranes that lack the full trophoblast layer.[4] Analyses have demonstrated that the trophoblast layer accounts for more than 50% of the total amount of key biological factors in placental tissue.[5]

LifeNet Health®
Saving Lives. Restoring Health. Giving Hope.

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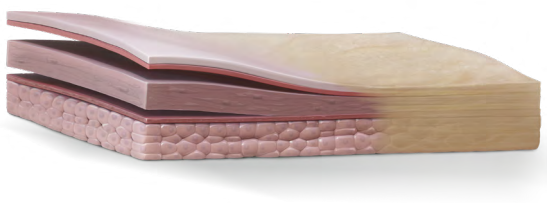
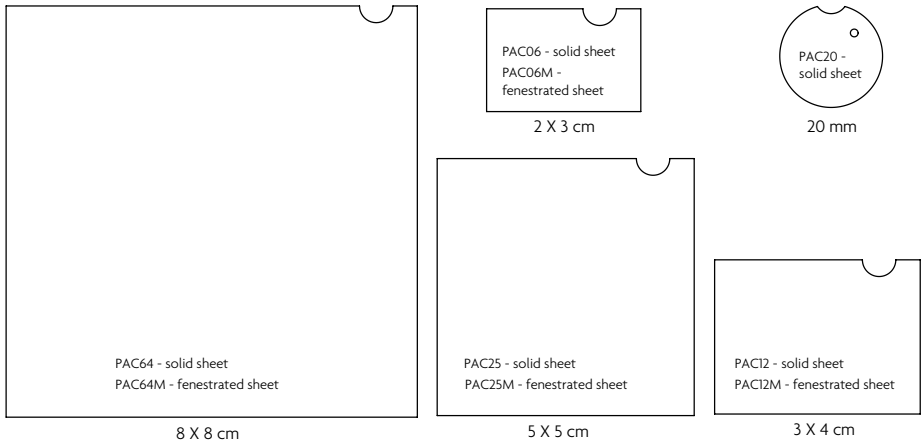


Matrion Placental Membrane

Ambient Temperature Storage (10°C - 37°C), 1 year shelf life

Size	Configuration	Order Code
8 x 8 cm	Solid Sheet	PAC64
8 x 8 cm	Fenestrated Sheet	PAC64M
5 x 5 cm	Solid Sheet	PAC25
5 x 5 cm	Fenestrated Sheet	PAC25M
3 x 4 cm	Solid Sheet	PAC12
3 x 4 cm	Fenestrated Sheet	PAC12M
2 x 3 cm	Solid Sheet	PAC06
2 x 3 cm	Fenestrated Sheet	PAC06M
20 mm disk	Solid Sheet	PAC20



Most grafts available in either fenestrated or solid configurations.

Orientation notch at the upper-right hand corner indicates the amnion side is up, chorion side is down.

Images are not to scale.

Instructions for use available at **LifeNetHealth.org/IFU**

References

1. Matrion Technical Monograph, 68-40-377.00
2. Verbruggen SW, Oyen ML Phillips AT, Nowlan NC. Function and failure of fetal membrane: Modelling the mechanics of the chorion and amnion. PLoS One. 2017; 12(3): e0171588.
3. 10-008, Process, PQ, Method 2B Terminal Sterilization Validation for the Devitalized Dermis Allografts Family
4. Qin, X., Chen, S., Aschenbach, L., Chen, J., inventor; LifeNet Health, assignee. Decellularized placental membrane and methods of preparing and use thereof. WO/2017/112934.
5. LifeNet Health. TR-004-2020 Characterization of the Amnion, Chorion, and Trophoblast Layers of Decellularized and Freeze-Dried Placental Membrane. 2020.

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