

Cytrans® Elashield

Resorbable Bilayer Membrane

Reliable Strength.
Natural Regeneration.



What's Cytrans®?

Cytrans®, GC's regenerative brand, derives its name from "Cyto" (cells) and "Transfer" (replacement), reflecting its concept of being gradually replaced by the function of the host cells.

What's Cytrans® Elashield?

Bilayer Structure for Bone Regeneration

Cytrans® Elashield consist of a solid layer and a porous layer.

Solid layer

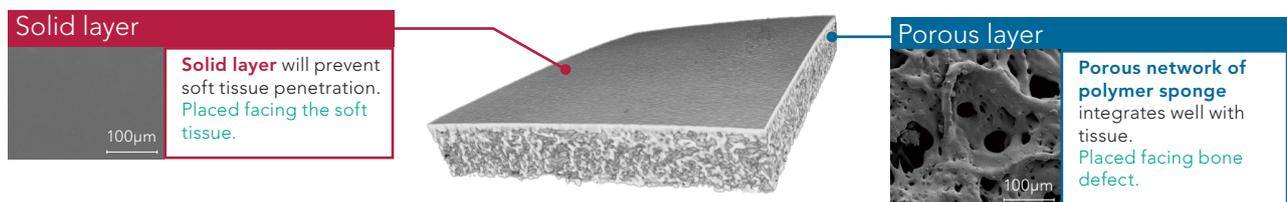
The smooth side has no pores through which soft tissue and bacteria could penetrate, helping maintain the space necessary for bone formation^{1,2}.

Porous layer

The porous layer has good tissue integration ideal for bone regeneration. Bilayer structure of solid and porous side will combine sufficient strength and tissue integration³.



Please remove the silver sheet before use. The side from which the silver sheet is removed is the solid side, which should be placed facing the soft tissue.

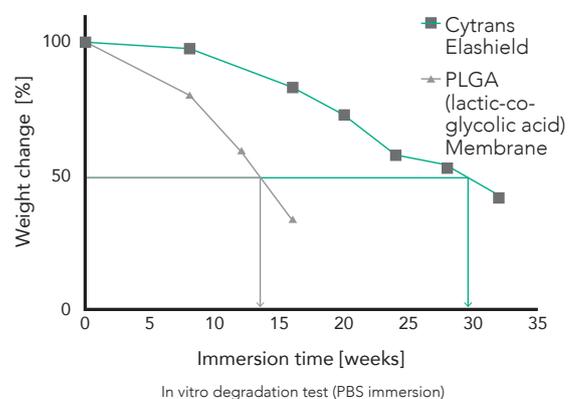


Ideal Resorption Rate for Bone Regeneration⁴

This membrane is made from synthetic polymer "Poly (L-lactide-co-ε-caprolactone) copolymer (P(LA/CL))" which has a long resorption time of around 6 months, making it suitable for GBR. Following implantation, the membrane undergoes hydrolytic degradation and is cleared from the body via the blood and other bodily fluids⁴.



Image of resorption behavior



1. Poly(lactic acid/caprolactone) bilayer membrane blocks bacterial penetration. Abe GL, Tsuboi R, Kitagawa H, Sasaki J, Li A, Kohno T, Imazato S. 2022. J Periodont Res. 57(3):510-518.
2. Poly(lactic acid/caprolactone) bilayer membrane achieves bone regeneration through a prolonged barrier function. Abe GL, Sasaki J, Tsuboi R, Kohno T, Kitagawa H, Imazato S. 2024. J Biomed Mater Res. 112:e35365.
3. Fabrication of novel poly(lactic acid/caprolactone) bilayer membrane for GBR application. Abe GL, Sasaki J, Katata C, Kohno T, Tsuboi R, Kitagawa H, Imazato S. 2020. Dental Materials. 36(5):626-634.
4. GC R&D, data on file.

Flexible and Strong

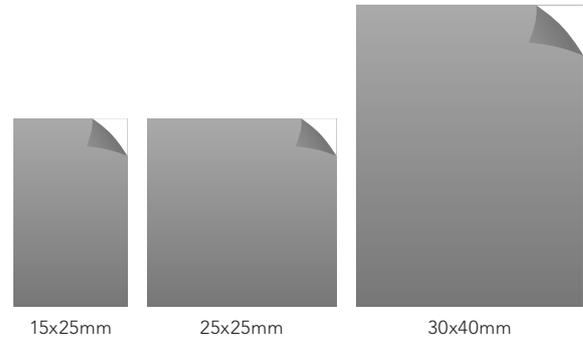
Designed with ideal flexibility and stiffness, the membrane ensures firm coverage of the graft site and reduces the risk of postoperative exposure³. For added stability, it can be fixated using a bone tack (pin).



Available in 3 Sizes

Available in three sizes to suit different clinical indications. Thickness is 200 µm.

(Full-scale)



Clinical Case

Ridge Augmentation Using **Cytrans® Elashield** and **Cytrans® Granules** in Anterior Region

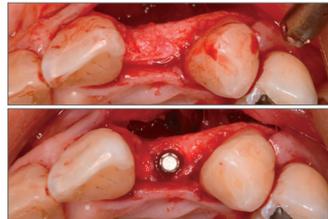
By Dr. Toshihiko Iijima, Private Practice, Chiba, Japan

Patient Profile: 42-year-old female, Maxillary anterior area

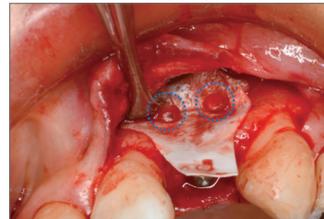
Materials Used: **Cytrans® Granules** (M size, 0.5 g), **Cytrans® Elashield** (15 × 25 mm)



Pre-operative intraoral photograph.



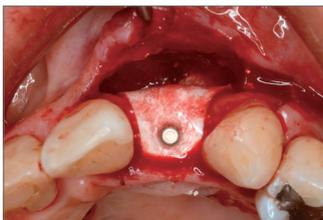
(Top) After lifting the flap, bone resorption was observed.
(Bottom) Implant was placed.



Placement of **Cytrans® Elashield** fixed by resorbable pins.



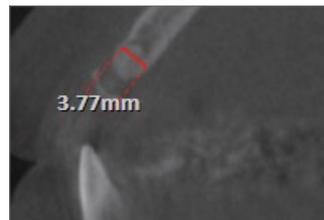
The buccal side was filled with **Cytrans® Granules**.



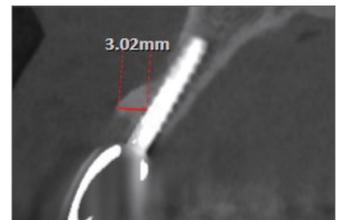
Cytrans® Granules tightly wrapped using the elastic **Cytrans® Elashield**.



Final restoration after 4 months following GBR.



CBCT taken before surgery (left) and 8 months after GBR (right). 3 mm of bone was regenerated on the buccal side after treatment.



Cytrans® Elashield

Ordering Information

SKU

10042007

10042008

10042009

Description

Cytrans Elashield 15×25mm

Cytrans Elashield 25×25mm

Cytrans Elashield 30×40mm



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