

MegaDerm® For Rhinoplasty



Tip Augmentation - Block type

Use for a natural shape of nose tip

- Can be operated in the shape of the tip that fits the patient
- Secondary surgery is unnecessary by replacing autologous tissue

Dorsal Augmentation - Block type

Carve and use directly according to the patient

- Easy to perform surgery by carving in desired shape and thickness
- Ideal for patients who prioritize natural shape and safety
- Suitable for reoperation cases and early patients who are susceptible to inflammation or prioritize safety



Dorsal Augmentation - Carving type

Convenient to use as a Pre-formed design

- Carved product suitable for dorsal shaping of the nose
- Ideal for patients who prioritize natural shape and safety
- Suitable for reoperation cases and early patients who are susceptible to inflammation or prioritize safety



Silicone Camouflaging - Sheet type

To prevent the side effects of silicone insertion, cover with MegaDerm and implant into the patient

- Capsular contracture, migration, and implant visibility can be prevented
- Natural nasal-bridge can be implemented



MegaDerm® Product Specifications

Product	Indications	Size(cm)	Thickness(mm)	Type
MegaDerm®	Tip	1 x 1	1.5 - 2.3	Block
		1 x 1	2.5 - 3.0	
		1 x 1	3.0 - 3.5	
		1 x 1	4.5 - 5.0	
		1 x 1	5.0 - 6.0	
	Dorsum	1 x 5	1.8 - 2.3	Block
		1 x 5	2.3 - 3.0	
		1 x 5	3.0 - 4.0	
		1 x 5	4.0 - 5.0	
		1 x 5	5.0 - 6.0	
		1 x 5	W3 (3.0)	Carving
		1 x 5	W4 (4.0)	
		1 x 5	W5 (5.0)	Carving
	Camouflaging	1 x 5	0.7 - 0.9	Sheet

*Additional sizes available

References

1. Lee, Ju Hee, Hyung Goo Kim, and Won Jai Lee. "Characterization and tissue incorporation of cross-linked human acellular dermal matrix." Biomaterials 44 (2015): 195-205.
2. Kim, Chang-Hoon, and Sang Chul Park. "Homologous Tissue for Dorsal Augmentation." Facial Plastic Surgery Clinics 26.3 (2018): 311-321.
3. Yang, Chae Eun, et al. "Usefulness of Cross-Linked Human Acellular Dermal Matrix as an Implant for Dorsal Augmentation in Rhinoplasty." Aesthetic plastic surgery 42.1 (2018): 288-294.
4. Suh, Man Koon, et al. "Augmentation rhinoplasty with silicone implant covered with acellular dermal matrix." Journal of Craniofacial Surgery 28.2 (2017): 445-448.

L&C BIO CO., LTD

82, Naruteo-ro, Seocho-gu, Seoul, Republic of Korea
TEL 02-541-8577 FAX 02-541-8578

www.lncbio.co.kr

Internal Use Only



"For Rhinoplasty"



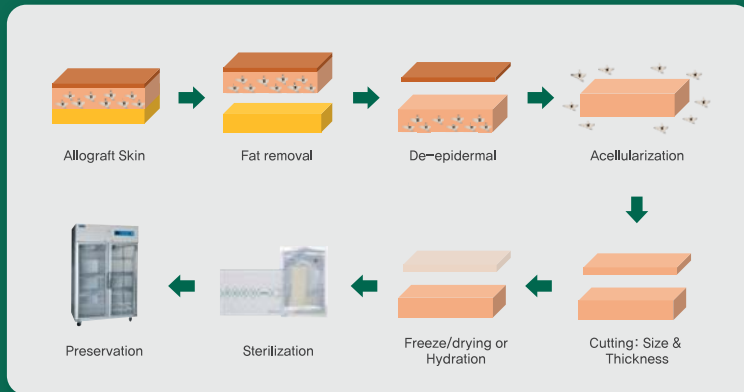
L&C BIO way

We change life with creative biotechnology

Based on the mission to improve the quality of human life and provide better value to our customers, L&C BIO is creating a healthy and happy life for humanity. L&C BIO, a R&D company specializing in tissue regenerative medicine, will continue to grow as a global bio-health care company based on differentiated products and business strategies.

AlloClean® technology

AlloClean technology processes safe human tissue raw materials selected through a Pre-Screening & Testing into implantable therapeutic materials. The core of this technology is that it removes cells, microorganisms, immune rejection reaction factors, and various foreign substances contained in the tissues. Chemical treatment and sterilization are performed in consideration of the characteristics of each tissue (skin, bone, cartilage, tendon/ligament, fascia).



Safety

1) Raw material safety: Pre-Screening & Testing

We guarantee the safety of raw materials by conducting donor eligibility assessment in accordance with MFDS legal requirements and AATB standard regulations.

2) Final sterilization

- Freeze/dried type products: electronic-beam sterilization
- Hydration type products: radiation sterilization

MegaDerm®

MegaDerm is a product made by processing the donated human skin tissue through L&C BIO's specialized AlloClean technology process and has a 3D structure of the extracellular matrix of the dermis.

MegaDerm is used not only for skin transplantation, but also for soft tissue reconstruction, and tissue regeneration proceeds after transplantation.

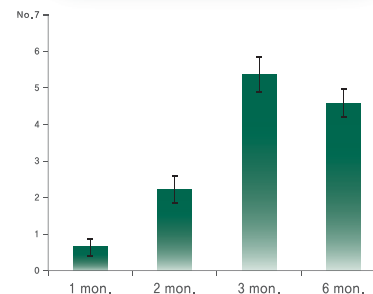


Features of MegaDerm®

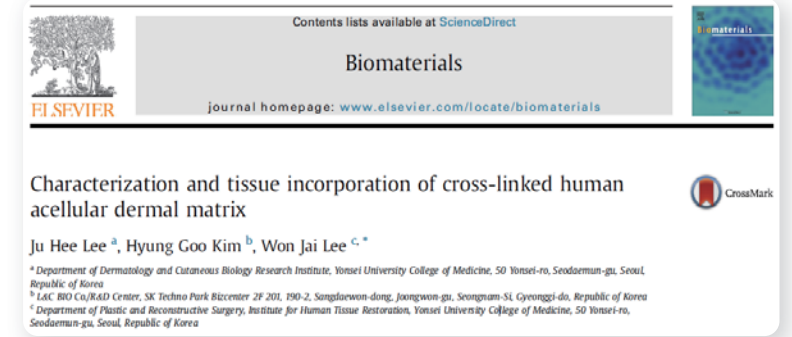
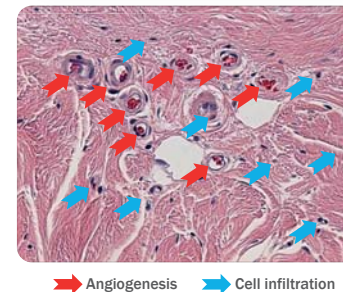
MegaDerm shows natural results.

- As a result of histological analysis, MegaDerm undergoes tissue regeneration through cell infiltration and neovascularization without infection or immune rejection.
- It can be replaced naturally because it is recognized as your own tissue, not as a foreign substance.
- After implantation, the patient's desired nose shape is maintained as it is well engrafted in the surrounding tissues and is not mobile.

Angiogenesis for 6 months after MegaDerm implantation



Tissue staining 6 months after MegaDerm implantation



Characterization and tissue incorporation of cross-linked human acellular dermal matrix

Ju Hee Lee^a, Hyung Goo Kim^b, Won Jai Lee^{c,*}

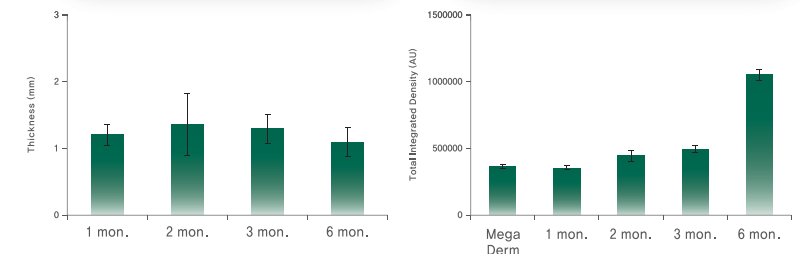
^a Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, 50 Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea
^b L&C BIO Co./RAD Center, SK Techno Park Bizcenter 2F 201, 190-2, Sangilwon-dong, Joongwon-gu, Seongnam-Si, Gyeonggi-do, Republic of Korea
^c Department of Plastic and Reconstructive Surgery, Institute for Human Tissue Restoration, Yonsei University College of Medicine, 50 Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea

Characterization and tissue incorporation of cross-linked human acellular dermal matrix

- Biomaterials, IF 8.387
- We developed the world's first technology to cross-link ADM (MegaDerm) using an electron beam, and this is a journal that proves the effect of collagen cross-linking.

As a result of observation for 6 months after implantation, there is almost no change in thickness.

Compared to the time of implantation, the distribution of collagen (ECM) increased by about 2.9 times or more.



MegaDerm shows high retention and volume.

- Collagen is cross-linked that it has very low absorption.
- Consistent and predictable surgical results can be obtained, and patient satisfaction is also very high.

MegaDerm is safe.

- It is the world's first E-beam sterilized product that is safe as effectively sterilized without destroying collagen tissue.
- It is acellular dermal matrix that has excellent biocompatibility.
- It is safe because capsular contracture that occurs with synthetic materials such as silicone does not occur.