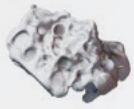


Opus™

Osteoconductive Scaffold



Opus™ is a synthetic osteoconductive scaffold that is compression resistant, fully resorbable, and easily customizable for a range of clinical applications.



Carbonate Apatite Bone Mineral

- Higher osteoclastic & osteoblastic activity than β -TCP & HA¹
- Resorption & remodeling similar to human bone^{2,3}
 - Not fast like β -TCP
 - Not slow like HA

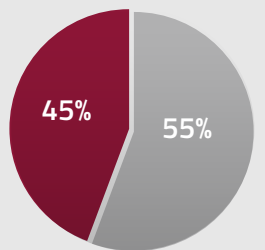


Type 1 Collagen

- 100% resorbable⁴
- Intrinsic hemostatic properties control minor bleeding^{4,5}
- Binds proteins & cells and retains biological factors⁶

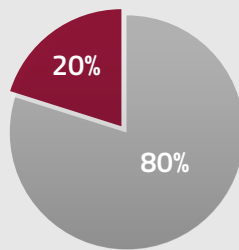
Available in multiple configurations...

Opus Putty



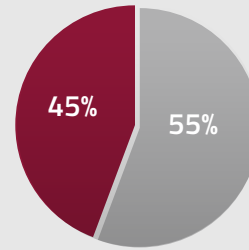
■ Type 1 Collagen
■ Carbonate Apatite Bone Material

Opus Strip



■ Type 1 Collagen
■ Carbonate Apatite Bone Material

Opus Flex



■ Type 1 Collagen
■ Carbonate Apatite Bone Material

Opus Putty

71310307	Putty	7cc
71310314	Putty	14cc

Opus Strip & Flex

71320510	Flex	10cc, 5x2x0.5cm (2 strips)
71320605	Strip	5cc, 6.25x2x.04cm
71321210	Strip	10cc, 12.5x2x.04cm
71321220	Strip	20cc, 12.5x2x.04cm (2 strips)
71320610	Strip	10cc, 6.25x2x0.8cm
71320620	Strip	20cc, 6.25x2x0.8cm (2 strips)

References:

1. Kanayama, K., Sriarj, W., Shimokawa, H., Ohya, K., Doi, Y., Shibutani, T. 2011. Osteoclast and Osteoblast Activities on Carbonate Apatite Plates in Cell Cultures. J. Biomaterials, 26, 435-436.
2. Matsuura, A., Kubo, T., Doi K., Hayashi, K., Morita, K., Yokota, R., Hayashi, H., Hirata, I., Okazaki, M., Akagawa, Y. (2009). Bone formation ability of carbonate apatite-collagen scaffolds with different carbonate contents. Dental Materials Journal, 28(2), 234-242.
3. Ellies, LG., Carter, J.M., Natiella, J.R., Featherstone, J.D.B., Nelson, D.G.A. (1988). Quantitative analysis of early in vivo tissue response to synthetic apatite implants. J. of Biomed. Mater. Res., 22, 137-148.
4. Li, S.T. (2000). Biomedical Engineering Handbook, In JD Bronzino (Eds.), Biologic Biomaterials: Tissue Derived Biomaterials (Collagen) (1st ed.) 2, 42, 1-23, CRC Press, Boca Raton, FL.
5. Jaffe, R., Deykin, D. (1974). Evidence for a Structural Requirement for the Aggregation of Platelets by Collagen. The Journal of Clinical Investigation, 53, 875-883.
6. Geiger, M., Li, R.H., Friess, W. (2003). Collagen sponges for bone regeneration with rhBMP-2. Science Direct / Elsevier, 55, 1613-1629. <http://doi.org/10.1016/j.addr.2003.08.010>

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