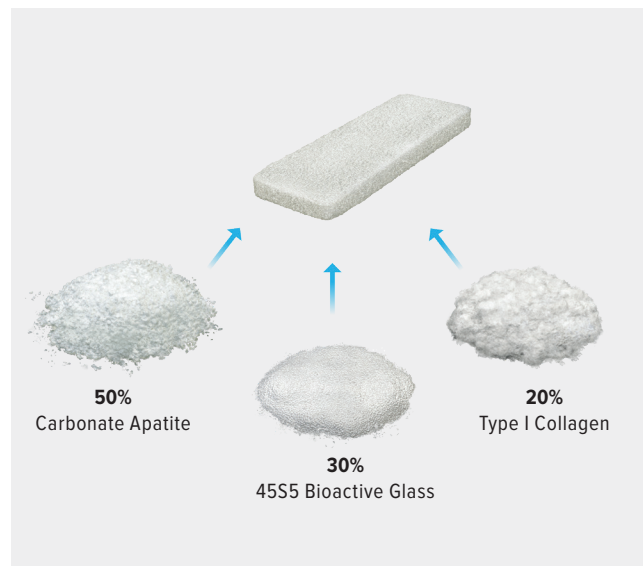


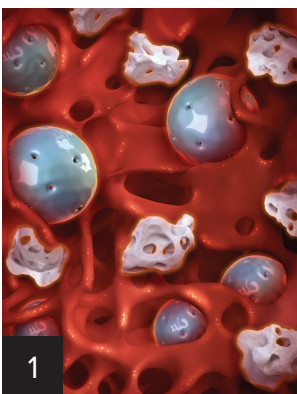
Product Overview

BoneSync™ BioActive is a second-generation bone void filler that includes bioactive glass and provides an osteoconductive and osteostimulative matrix.¹ It has a unique composition of 30% 45S5 bioactive glass, 50% carbonate apatite anorganic bone mineral, and 20% type I collagen.

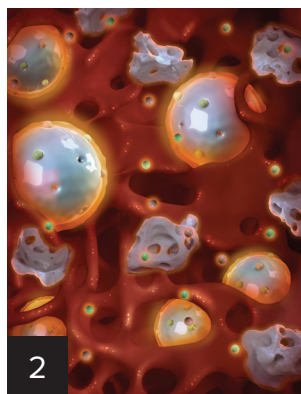
- 45S5 bioactive glass provides a favorable environment for bone regeneration and osteoblast attachment¹
- Carbonate apatite has macro- and micropores for cell migration and an optimal resorption and remodeling profile when compared to β -tricalcium phosphate (β -TCP) and hydroxy apatite (HA).²
- The collagen in BoneSync BioActive matrix is highly purified, retains biological factors, and binds proteins and cells.³



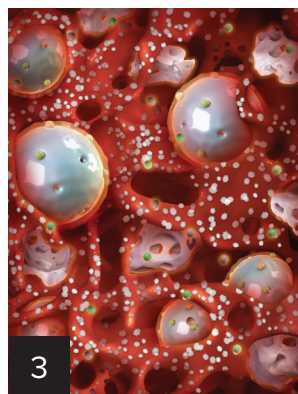
Mechanism of Action⁴



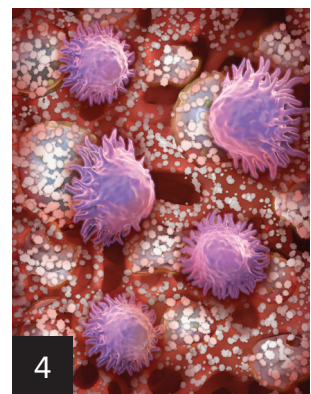
1 Type I collagen aids in uniform distribution and suspension of the bioglass and carbonate apatite particles.



2 Ion release and exchange occurs as bodily fluids interact with the bioglass, creating a negatively charged surface and increased pH and forming an HA layer. This provides an optimal surface for bone formation.



3 Crystallization begins on the surface of the matrix, attracting proteins to start the bone formation cascade.



4 Proteins attract preosteoblasts to the surface to proliferate, differentiate, and mature into osteoblasts that lay down new bone.

Ordering Information

BoneSync™ BioActive matrix is available in putty and strip versions to fit various surgical application needs.

Product Description	Item Number
BoneSync BioActive Matrix Strip, 5 cc	ABS-3500-05
BoneSync BioActive Matrix Strip, 10 cc	ABS-3500-10
BoneSync BioActive Matrix Strip, 20 cc	ABS-3500-20
BoneSync BioActive Matrix Strip, 40 cc	ABS-3500-40
BoneSync BioActive Matrix Putty, 2.5 cc	ABS-3400-02
BoneSync BioActive Matrix Putty, 5 cc	ABS-3400-05
BoneSync BioActive Matrix Putty, 10 cc	ABS-3400-10
BoneSync BioActive Matrix Putty, 20 cc	ABS-3400-20

References

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2. Spence G, Patel N, Brooks R, Rushton N. Carbonate substituted hydroxyapatite: resorption by osteoclasts modifies the osteoblastic response. *J Biomed Mater Res A.* 2009;90(1):217-24. doi:10.1002/jbm.a.32083
3. Geiger M, Li RH, Friess W. Collagen sponges for bone regeneration with rhBMP-2. *Adv Drug Deliv Rev.* 2003;55(12):1613-29. doi:10.1016/j.addr.2003.08.010
4. Xynos ID, Hukkanen MV, Batten JJ, Buttery LD, Hench LL, Polak JM. Bioglass 45S5 stimulates osteoblast turnover and enhances bone formation In vitro: implications and applications for bone tissue engineering. *Calcif Tissue Int.* 2000;67(4):321-9. doi:10.1007/s002230001134