

BioCORE™

MOLDABLE BIOACTIVE GRAFT



STRUCTURE • SIGNALS • SOLUTION

*α*tec™
INFORMED BY EOS

BioCORE[™]

MOLDABLE BIOACTIVE GRAFT

Complete Composition

The BioCORE Moldable Bioactive Graft is an advanced mineral-collagen composite matrix that creates an osteoconductive, bioactive, and porous environment allowing for bony ingrowth across the graft site. BioCORE is composed of carbonate apatite, bioactive glass, and type I collagen that can be molded to fit the bone defect.



CARBONATE APATITE

Derived from bovine cancellous bone, which is naturally porous and a better osteoconductive material than hydroxyapatite¹



BIOACTIVE GLASS

Once implanted, through ion exchange and release, creates a favorable environment for bone formation and osteoblast attachment²



TYPE 1 COLLAGEN

Highly purified, porous, and has high affinity for binding endogenous proteins and cells³



VERSATILE HANDLING

- Quickly hydrates with blood, bone marrow aspirate (BMA), and other physiological fluids
- Upon hydration, BioCORE can be used as a strip or molded into any shape.

PERFORMANCE

- In a head-to-head rabbit posterolateral fusion study at 14 weeks, BioCORE with BMA had 2x higher radiographic fusion and 2.76x higher new bone formation than Vitoss[®] BA with BMA.⁴

¹ Spence G, Patel N, Brooks R, Rushton N. Carbonate substituted hydroxyapatite: resorption by osteoclasts modifies the osteoblastic response. J Biomed Mater Res A 2009;90:217-24.

² Hench L, Polak J, Xynos I. Bioactive materials to control cell cycle. Mat Res Innovat 2000;3:313-323.

³ Geiger M, Li RH, Friess W. Collagen sponges for bone regeneration with rhBMP-2. Adv Drug Deliv Rev. 2003;55:1613-29.

⁴ Data on file, ATEC Spine REC-005298.