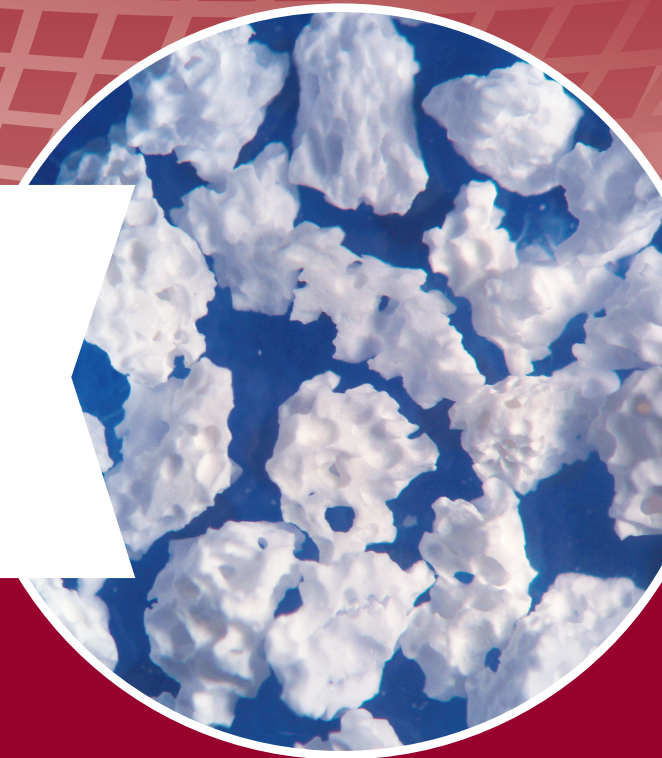


# SYNERGY™

Pure Synthetic Bone Graft

The Smart  
Synthetic



## ✓ Effective Bone Graft Substitute

Perfect for dental applications. Ideal auto or allograft extender.

## ✓ Radiodense

Clearly evident on radiographic images, allowing visualization of bone graft placement.

## ✓ Affordable

The price conscious solution for periodontal or orthopedic bone void filling.

## ✓ Innovative, Convenient Packaging



The Bone Graft Experts

Synergy is CONFIDENCE backed by years of proven successful use in human medicine.

## WHAT IS SYNERGY?

Synergy is an advanced biosynthetic bone graft comprised of calcium phosphates that occur naturally in real bone. It is a biphasic combination of  $\beta$ -Tricalcium Phosphate ( $\beta$ -TCP) and Hydroxyapatite (HA).



## FEATURES + BENEFITS

### Advanced Formulation

Biphasic Synergy is composed of biocompatible  $\beta$ -TCP and HA<sup>1</sup> sintered together. The ratio is optimized for swift transformation into new bone throughout the graft.

- 85% resorbable  $\beta$ -TCP
- 15% structurally stable HA

### Balanced Remodeling

Synergy works with the body in 2 integrated phases.

- Phase 1:**  $\beta$ -TCP simultaneously resorbs as new bone is formed<sup>2</sup>, remodeling throughout the graft
- Phase 2:** HA microparticles slowly resorb, providing an osteoconductive scaffold

### Cancellous-like, Osteoconductive Morphology

Synergy's structure is the architectural equivalent of cancellous bone.

- Interconnected porous structure encourages stem cell migration, proliferation and differentiation into osteoblasts<sup>2</sup>
- Provides for an adequate flow of nutrients to enhance new bone formation<sup>3</sup>

## HOW IT WORKS

These intelligent bioactive materials have the proven ability to stimulate bone formation.<sup>3</sup> The  $\beta$ -TCP quickly releases calcium ions<sup>4</sup> that cause clotting and release of platelet-derived growth factors. This cascade of mineral release and blood clotting provides the perfect environment for stimulation of bone healing.

The cancellous-like porosity and surface structure encourage inward cell migration. As the  $\beta$ -TCP resorbs more space is created to support angiogenesis and bone formation<sup>1</sup>. The micro particles of HA provide a more long lasting osteoconductive structure.

## INDICATIONS

Filling, bridging and/or reconstruction of non weight-bearing bony defects.

### DENTAL

- ✓ Void filling / Extraction sites
- ✓ Periodontal pockets / Other bone loss
- ✓ Fracture repair
- ✓ Cysts / Other osseous defects

### ORTHO

- ✓ Use as an auto or allograft extender
- ✓ Void filling / Osteotomy sites
- ✓ Filling & reconstruction of metaphyseal bone defects
- ✓ Arthrodesis

## DOSE SIZES

Three convenient packaging choices:

**ORTHO:** Peel Pack Vials 5 cc (5 x 1 cc doses)

**DENTAL:** Mini-vials 4 cc (8 x 0.5 cc doses) **Pro-vials 15 cc (3 x 5 cc doses)**

## REFERENCES

1. Farina et al., In vivo behaviour of two different biphasic ceramic implanted in mandibular bone of dogs. J Mater Sci: Mater Med 19:1565-1573, 2008
2. Spivak JM, Hasharoni A. Use of hydroxyapatite in spine surgery. Eur Spine J. 10: S197-S204, 2001
3. Habibovic P, de Groot K. Osteoinductive biomaterials – properties and relevance in bone repair. J Tissue Eng Regen Med. 1: 25-32, 2007
4. Daculsi et al., Transformation of biphasic calcium phosphate ceramics in vivo: ultrastructural and physico-chemical characterization. J Bio Mat Res 23:883-94,1989



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The manufacturer of Osteoallograft, the veterinary world's first real bone allograft.

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