Bioactive Osteoconductive + 30 years of clinical background

MBCP™ Micro/Macroporous Bone Graft
Synthetic Resorbable Biphasic Calcium Phosphate

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MBCP™ is a bioactive calcium phosphate ceramic composed of hydroxyapatite (HA) and Tricalcium Phosphate (TCP). MBCP™ is indicated to augment or substitute for bone graft in non-loadbearing clinical applications and is supplied in both block and granular form.

The effectiveness of MBCP™ has been critically evaluated in a large prospective randomized study involving 341 patients undergoing posterior spinal fusion with associated instrumentation. The performance of MBCP™ was characterized by:

- Equivalent clinical outcome to autologous bone graft
- Fewer spinal wound healing problems than autologous grafts
- Avoidance of donor site pain and infections
- No allergic reactions

MBCP™ has also been used successfully in other clinical situations, such as the filling of pathogenic or mastoid cavity bone defects, and to replace bone in the treatment of long-bone fractures.

**Key Features**

- Osteoconductive: Provides a scaffold for new bone growth
- Molecular mixture of: 60% HA and 40% TCP
- 70% porosity, interconnected network of macropores and micropores
- Microporosity (<10 microns): For ionic exchange: TCP dissolution and bony crystal precipitation. Newly formed osteocytes are released during dissolution of TCP
- Macroporosity (>10 microns): Allows deep invasion of bone cells into the matrix
- +30 years of clinical experience: Host bone formation is well demonstrated 30 years after implantation
- Safe: 5 years shelf life - Fully synthetic
- Convenient: Available in granules, blocks, sticks for different indications

**Key Benefits**

- Provides a scaffold for new bone growth: HA alone resorbs too slowly while TCP resorbs too fast. A bi-phasic of HA and TCP allows the resorption rate to be similar to that of human bone.
- Porosity, similar to that of cancellous bone, allows the colonization of bone cells and biological fluid uniformly inside the matrix
- For ionic exchange: TCP dissolution and bony crystal precipitation. Newly formed osteocytes are released during dissolution of TCP
- Allows deep invasion of bone cells into the matrix
- Host bone formation is well demonstrated 30 years after implantation
- 5 years shelf life - Fully synthetic
- Available in granules, blocks, sticks for different indications

**Manufacturer**

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Read the instructions for use

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