

The Natural Bone Substitute

Biocoral[®] is the only natural wholly mineral resorbable bone graft substitute composed of Calcium Carbonate (>98%) used since more than 30 years in all surgical, repair and bone regeneration procedures. Biocoral® allows the human body to convert Calcium Carbonate to newly formed natural bone.

Biocompatible

Biocoral® is perfectly tolerated by the human body with no risk of contamination and is compatible with the structural requirements of bone growth^{1,2}.

Bioresorbable

Biocoral[®] has an excellent bone integration with total resorption between 3 to 9 months^{3*}.

Bioactive

Biocoral[®] because of its mineral and architectural characteristics (Aragonite Crystal and Porosity) once placed in bony sites, is guickly impregnated with autogenous blood or bone marrow, with a proved calcification from the day 9th⁴.

Osteoconductor

Biocoral[®] has an ideal porosity which allows a guick invasion of bone marrow and integration of newly formed bone⁵.

Re-initiates Bone Mineralization Process

Biocoral[®] is used as an active ingredient for reinitiating the process of bone remineralization (See Indication).

Replaced by Newly Formed Bone Biocoral® is quickly vascularized and progressively resorbed by osteoclast cells, which is then replaced by osteoblast cells in order to conduct newly formed bone identical to the recipient bone⁶.

No Risk of Viral Transfer Nor Other Contamination **Biocoral**[®] follows strict quality control procedures which are performed at each stage of manufacturing process

and guarantees its compliance with high guality standards and offers surgeons a truly trustworthy biomaterial.

Easy to Use

Biocoral[®] is available in a variety of shapes (granules, beads, blocks and shaped protheses) and sizes, it is easily used and applied in the surgical site once infiltrated by autogenous blood or bone marrow.

Effective Cost

Biocoral[®] is the best alternative to autografts, minimizing patient's hospitalizations and its health care costs.



Biocoral® Indications

Biocoral[®] is used as bone graft substitute in all surgical, repair and bone regeneration procedures and has been used in over 500 000 cases.

Biocoral[®] is the only biocompatible and bioresorbable calcium salt used as an active ingredient for local treatment of diseases associated with demineralization or mineralization defects of bone, with the aim of reinitiating the process of bone remineralization (Patented Application).

Biocoral® Advantages

- Natural Wholly Mineral Biomaterial,
- Ready to Use,
- Easy Handling,
- No Risk of Viral Transfer Nor other Contamination,
- Quick infiltration by autogenous blood or bone marrow once placed in bony sites,
- Variety of shapes and sizes for many fields.

Biocoral® has remarkable physical, chemical and architectural properties similar to those of the human bone.

General Data

- Sterilization by ionizing radiation (2.5 Mrad25- KGy)
- Validity of 5 years after date of sterilization

From Biocoral[®]... To Newly Formed Bone!

In 5 overlapping phases (Histology).



Phase 1 Invasion

Phase 2 Vascularization

Phase 3 Resorption of Biocoral[®] by osteoclasts Phase 4 Bone neoformation by osteoblasts Phase 5 Remodeling



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