

INSPIRING NATURE

BY BALANCING RESORPTION



IngeniOs™ β -TCP
Bioactive
Synthetic Bone
Particles

THE RESORBABLE,
NON-BIOLOGIC
CHOICE FOR BONE
REGENERATION.



1 BIOACTIVE FORMULATION

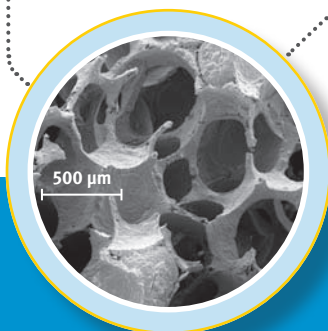
- Pure-phase beta tricalcium phosphate of non-biologic origin that is silicated, providing the potential for increased bioactivity^{1,2}

2 VASCULARIZED BONE REGENERATION

- 75% Interconnected porosity helps to enable ingrowth of healthy bone tissue

3 RESORBABLE

- Designed to resorb in balance with replacement by naturally-regenerating mineralized bone



IngeniOs β -TCP Bioactive
Synthetic Bone Particles
IngeniOs β -TCP at 50x
Magnification

INGENIOS β -TCP

BIOACTIVE

ADDITIONAL ADVANTAGES

- 100% Non-biologic - addresses clinician or patient preference
- Radiopaque - easy to locate on an X-ray
- Mixable – can be utilized as a graft mix-in to extend volume or add radiopacity

CLINICAL USES

- Augmentation or reconstructive treatment of the alveolar ridge
- Filling of intrabony periodontal defects
- Filling of defects after root resection, apicoectomy and cystectomy
- Filling of extraction sockets to enhance preservation of the alveolar ridge
- Sinus lift/elevation of the maxillary sinus floor

Ordering information

Catalog Number	Description
0-602501	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 0.25cc, 0.25-1mm
0-600501	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 0.5cc, 0.25-1mm
0-601001	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 1cc, 0.25-1mm
0-602001	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 2cc, 0.25-1mm
0-700501	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 0.5cc, 1-2mm
0-701001	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 1cc, 1-2mm
0-702001	<i>IngeniOs</i> β -TCP Bioactive Synthetic Bone Particles, 2cc, 1-2mm

ADVANCED β -TCP FORMULATION

Conventional β -TCP-only grafting materials have been documented to resorb too quickly for complete bone replacement in some indications, producing less bone than the volume of β -TCP resorbed.³ *IngeniOs* β -TCP Bioactive Synthetic Bone Particles are an advanced, silicated β -TCP formulation designed for resorption in balance with replacement by natural bone.

6-MONTH HISTOLOGY IN OVINE MODEL

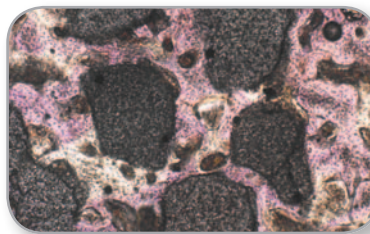


Fig. 1 - *IngeniOs* β -TCP Bioactive Synthetic Bone Particles

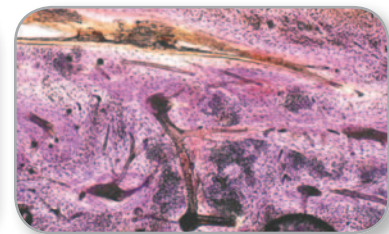


Fig. 2 - Cerasorb M Dental β -TCP Bone Substitute

In an ovine model after 6 months implantation, *IngeniOs* β -TCP Bioactive particles were present and resorbing while maintaining space for bone formation in the defect. Osteoblasts were observed in the porosity of the resorbing particles, demonstrating biocompatibility and osteoconductivity [Fig. 1, silicated β -TCP].⁴ In the defect treated with Cerasorb[®] M Dental β -TCP Bone Substitute, fewer particles remained for space maintenance [Fig. 2, non-silicated β -TCP].⁴

¹ Pietak AM, Reid JW, Stott MJ, Sayer M. Silicon substitution in the calcium phosphate bioceramics. *Biomaterials*. 28 (2008) 4023 - 4032.

² C. Knabe, P. Ducheyne. Chapter 6 - Cellular response to bioactive ceramics, In: *Handbook of Bioceramics and their Applications*. Ed: Prof. Dr. Tadashi Kokubo, Woodhead Publishing Inc., Cambridge, UK, 2008, p.133-164.

³ Moore WR, Graves SE, Bain, GI. Synthetic Bone Graft Substitutes. *ANZ J Surg* 2001. 71: 354-361.

⁴ Data on file with curasan AG.

To learn more about *IngeniOs* β -TCP Bioactive Synthetic Bone Particles, please visit us online at www.zimmerdental.com or to speak to a sales representative, call 1 (800) 854-7019.

To receive our eNews visit us at http://www.zimmerdental.com/news_eNewsletterSignUp.aspx

For more information about our Products, Regenerative Materials and Educational Opportunities, contact us:

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