

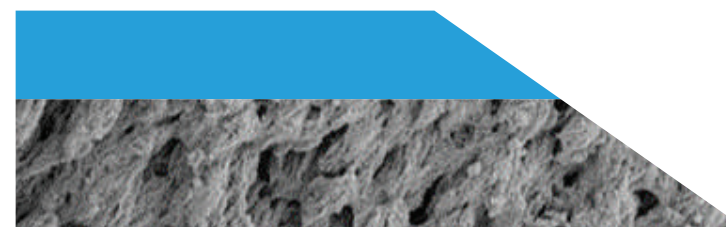


# BOVINE XENOGRAFT

BONE SUBSTITUTE MATERIAL

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**Bone-D XB**  
Biomaterials Manufacturer  
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Manufactured by MedPark | BOVINE XENOGRAFT



## Bovine Xenograft manufactured by Sintering Technology of MedPark

Easy Manipulation

Excellent Pore Structure

Proven Stability

### PRODUCT DESCRIPTION



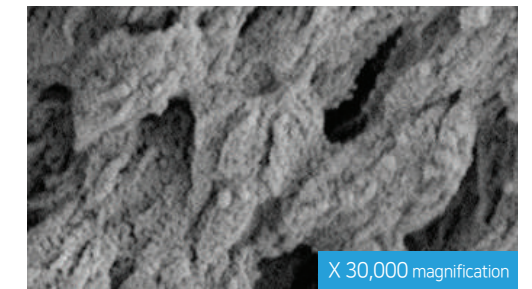
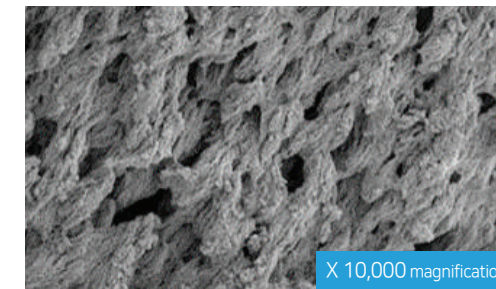
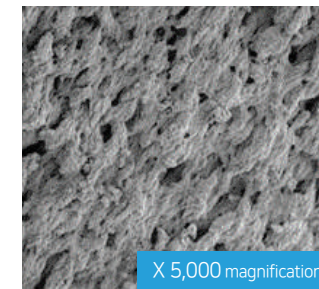
MATERIAL	TYPE	PARTICLE SIZE	WEIGHT / VOLUME
Bovine	Powder	0.2~1.0 (mm)	<ul style="list-style-type: none"> <li>0.15g / 0.3 cc</li> <li>0.25g / 0.5 cc</li> <li>0.5g / 1.0 cc</li> <li>1.0g / 2.0 cc</li> </ul>
	Chip	1.0~2.0 (mm)	<ul style="list-style-type: none"> <li>0.25g / 0.75 cc</li> <li>0.5g / 1.5 cc</li> <li>1.0g / 3.0 cc</li> <li>2.0g / 6.0 cc</li> </ul>

Order made

### Excellent Porosity Proven by Porosimeter Test (Mercury Porosimetry)

Induce rapid growth of osteoblasts by penetration of growth factors in blood through numerous pore structures.  
(\*Measure the size and porosity of pores on the surface of the sample by adsorbing mercury on the sample)

PRODUCT	TYPE	POROSITY (%)
Bone - XB	POWDER	70.20
'A' Company	POWDER	48.74
'B' Company	POWDER	36.36



#### Excellent Pore Structure

- Manufactured by MedPark's sintering technology > Securing strength / porosity
- Extensive internal area
- Maintenance of ideal volume

#### Easy Manipulation

- Faster absorption by blood and saline for its porosity
- Applicable to various indication such as Socket Preservation, Sinus Lifts, Periodontal Defects and Ridge Augmentation

#### High Wettability

- Stimulating new bone formation with great hydration with blood
- Osteoblast in blood helps the new bone formation

### REFERENCE PAPER

- M. Figueiredo et al., 2010, Effect of the calcination temperature on the composition and microstructure of hydroxyapatite derived from human and animal bone, Ceramics International 36 (2010) 2383-2393
- AntoR Murugan et al, 2002, Heat-deproteinated xenogeneic bone from slaughterhouse waste : Physico-chemical properties, Indian Academy of Sciences. Vol. 26, 523-528
- Al Pearce et al., 2007, Animal models for Implant biomaterial research in Bone: A review, European Cells and Material Vol. 13. 2007
- Jungheon Lee et al., 2017, Physicochemical characterization of porcine bone-derived grafting material and comparison with bovine xenografts for dental applications, J Periodontal Implant Sci. 2017 Dec;46(6):388-401

### CLINICAL CASE



1 Before the surgery (Panorama)



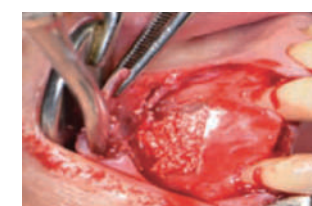
2 Bone resorption in the edentulous area



3 Implantation



4 Membrane and MedPark Bone-D contouring and covering



5 Membrane and MedPark Bone-D contouring and covering



6 Stable bone formation after 5 months



7 Temporary restorations for contouring of the soft tissue



8 After the surgery (Panorama)