

PENTOS OITM PUTTY

100% Allograft **DBM Putty**

PentOS Ol™ Putty is made from 100% human bone without any additional diluent or carriers to diminish its osteoinductive properties. EVERY lot used to manufacture PentOS OI products is verified to be osteoinductive and histologically demonstrates all five elements of bone formation.

Proven to form bone. Every time. It's that simple!

FEATURES AND BENEFITS

- Verified to be osteoinductive
- Osteoconductive
- Excellent handling characteristics
- Resists irrigation
- Sterilized using low-dose gamma irradiation
- Ready to use
- Stored at room temperature

APPLICATIONS

- Periodontal defects
- Implant site development
- Coronal defects around immediate implants
- Extraction site repair
- Implant dehiscence defects
- Sinus lift procedures
- Moderate localized ridge defects



AVAILABILITY

Putty in a syringe: 0.5 cc, 1 cc, 2.5 cc & 5 cc



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PENTOS OITM

Proven to form bone

PentOS OI™ allografts must demonstrate all five elements of bone formation before they are released for use. 1 NEW BONE New bone is the final step in the maturation of the product. PentOS OITM **5** CHONDROCYTES A Chondrocyte is a unique cell type in articular cartilage tissue and is essential for cartilage formation and functionality. It arises from mesenchymal stem cells. 2 BONE MARROW The presence of bone marrow indicates the ability of the product to differentiate into osteoblasts, chondrocytes, cartilage and new bone. 4 CARTILAGE 3 OSTEOCYTES Cartilage is replaced by bone during ossification in the higher vertebrates. It Osteocytes are derived is indicative that the bone from osteoblasts, or bone formation is forthcoming. forming cells, and are essentially osteoblasts surrounded by the products they secreted.

Post sterilization in-vivo testing on each lot <u>must</u> demonstrate the presence of **new bone**, **bone marrow**, **osteocytes**, **cartilage** and **chondrocytes** within 28 days in an athymic rat model otherwise we don't call it **PentOS OI**TM.

In-vitro tests of PentOS OI™ have demonstrated native levels of BMP-2 up to 19 times the native levels in the control.