



# Accel Connexus<sup>®</sup>

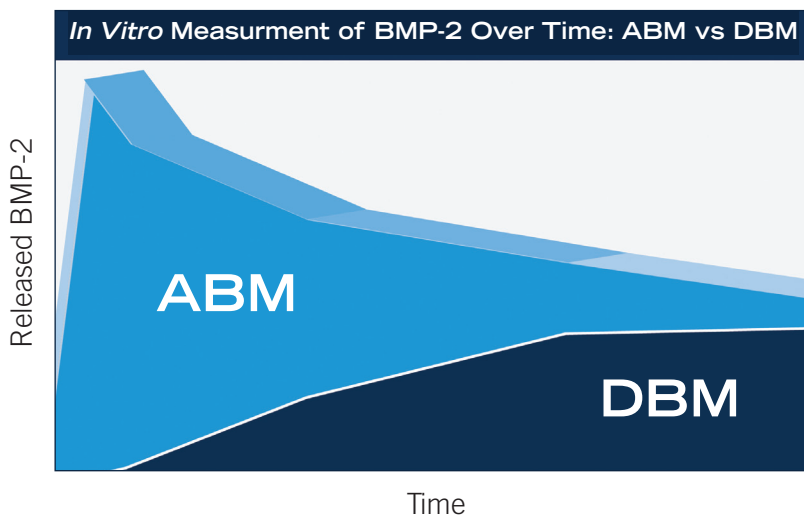


Advanced Bone Grafting -  
Built on a Strong Foundation

Accell Connexus<sup>®</sup> is a next generation Demineralized Bone Matrix (DBM)-based bone grafting product. In addition to standard DBM, Accell Connexus<sup>®</sup> contains patented Accell<sup>®</sup> Bone Matrix (ABM).

## EVALUATION OF OSTEOINDUCTIVE POTENTIAL

An in vitro study was conducted to examine accessibility to bioactive proteins in ABM and DBM.<sup>1</sup> The content of BMP-2, which has been shown to be strongly correlated with osteoinductive potential in vivo<sup>2</sup>, was measured over time using an Enzyme Linked Immunosorbent Assay (ELISA). The results are shown graphically below.



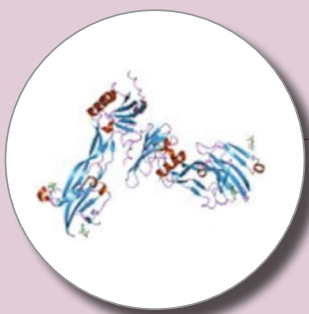
### Study Results

- Soluble BMP-2 was detected in ABM at an earlier time compared to particulate DBM
- ABM's open pore structure provides earlier accessibility to bone proteins
- DBM provides accessibility to bone proteins at later time points

## DEMINERALIZED BONE PROVIDES NATURAL OSTEOINDUCTIVE AND OSTEOCONDUCTIVE PROPERTIES.

### Osteoinductive

Bone Morphogenetic Protein BMP-2  
(naturally occurring)

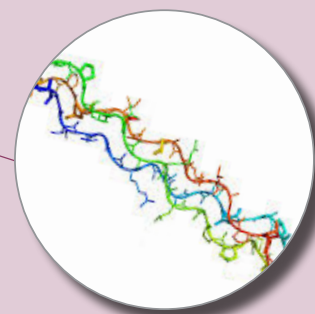


### Demineralized Bone



### Osteoconductive

Collagen



# THE ACCELL® PROCESS

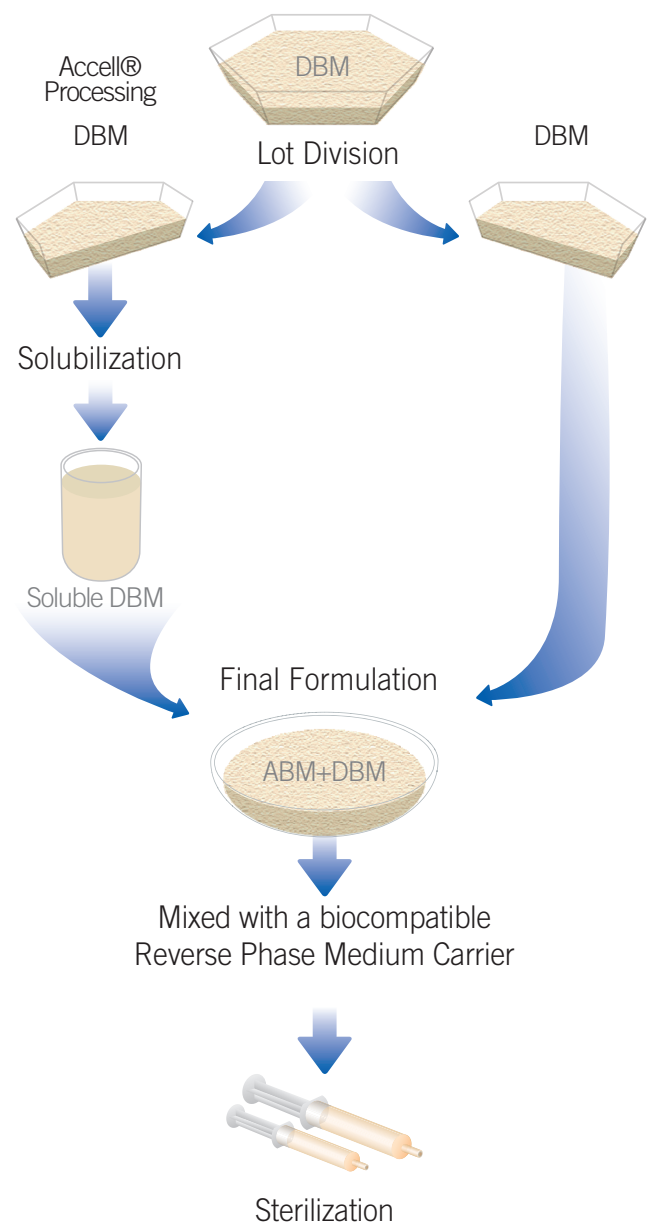
The DBM is divided into two equal parts; one part is entered into the Accell® process.

**Step #1:** DBM is dissolved using a proprietary process which chemically and physically alters the DBM creating an open pored structure with a higher surface area, known as ABM.

**Step #2:** The dried extract is then combined with the DBM and Reverse Phase Medium.

**E-Beam Sterilization:** Every lot is sterilized using a low-dose electron beam, a process that has been shown to preserve the osteoinductive potential of DBM.<sup>3</sup>

- Exceptional handling – moldable putty conforms to the graft site
- Resists irrigation
- Each lot must pass a validated in vitro assay to ensure osteoinductive potential
- Proprietary Reverse Phase Medium carrier thickens at body temperature, allowing for better graft containment
- Packaged sterile in a syringe
- Ready to use - no refrigeration, incubating, thawing or mixing required



## ORDERING INFORMATION

Product Description	Part Number
Accell Connexus <sup>®</sup> 0.5cc	10.310.1050
Accell Connexus <sup>®</sup> 1.0cc	10.310.1060
Accell Connexus <sup>®</sup> 2.5cc	10.310.1070
Accell Connexus <sup>®</sup> 5.0cc	10.310.1080

## INDICATIONS FOR USE

- Extraction sockets
- Sinus Lifts
- Ridge Augmentations
- Periodontal defects

## REFERENCES

1. Khaliq S, Lollis R, Bell D, Oliver R, Walsh WR, and Ingram R, Evaluation of a Next Generation DBM Putty in a Posterlateral Spinal Fusion Model, (2009) Integra LifeSciences Corporation.
2. Chnari, E; Javoroncov, M; Gertzman AA; Sunwoo MH; Dunn, MG, Bone Morphogenetic Protein 2 (BMP-2) Levels are Predictive of the Osteoinductive Potential of Demineralized Bone. Matrix, 56th Annual Meeting of the Orthopaedic Research Society Poster No. 485.
3. Influence of irradiation on the osteoinductive potential of demineralized bone matrix. Wientroub S, Reddi AH. Calif Tissue Int 1988;42:255-60.