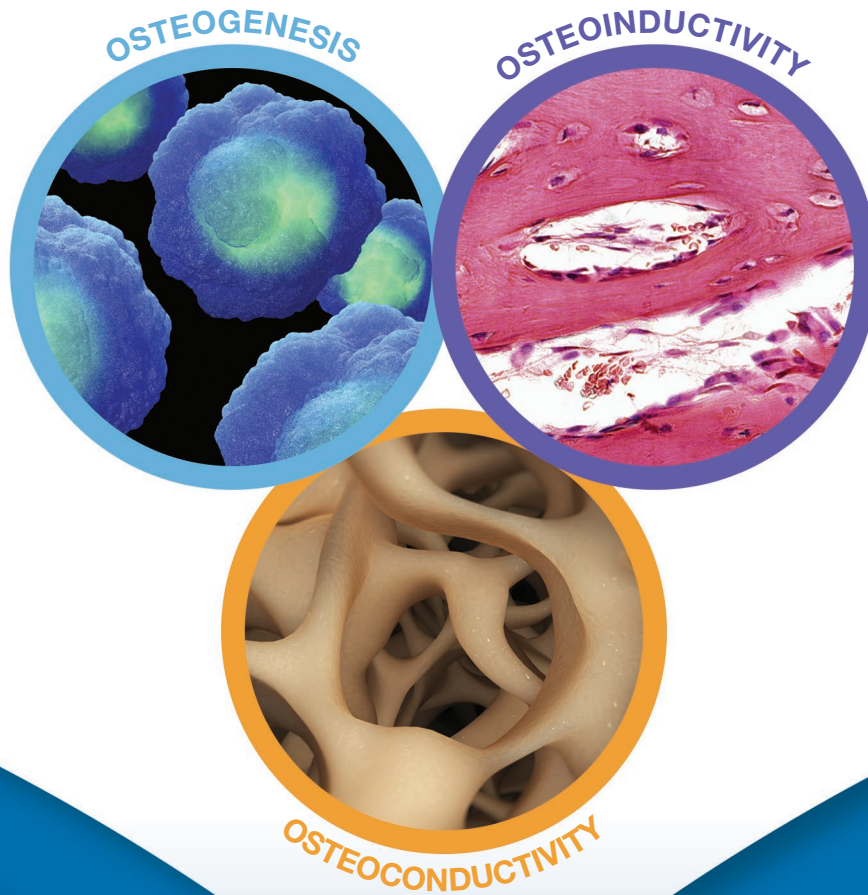


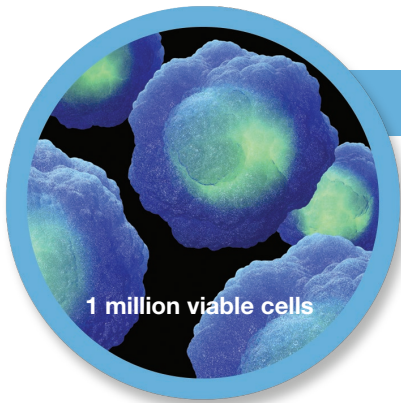


Next Generation Live Cell Bone Graft

Scientific Advancements in Processing Enhance
the Three Key Components Needed for Bone Regeneration



BioFuse™ delivers a complete bone formation solution for challenging patient conditions



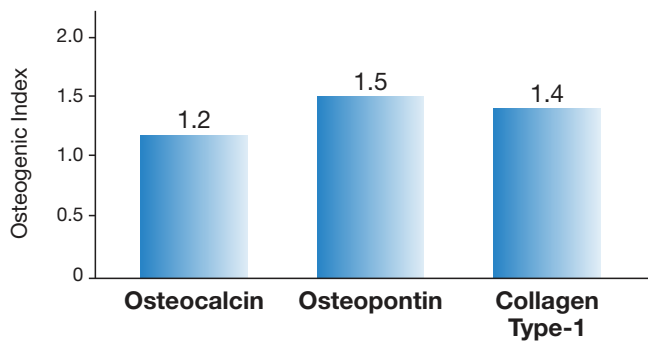
Increased Osteogenesis

Proprietary Processing Delivers;
More Metabolically Active Live Cells
Decreases the Exposure to Harmful Stressors
Reduces Apoptosis by 50% (Programmed Cell Death)

- **1 million viable cells/cc, 100% Mesenchymal Stem Cells and/or Osteoprogenitor Cells***
- 2X faster rate of cell proliferation
- Increased production of the 3 essential proteins needed for bone formation

Greater Osteogenic Potential

vs. Traditionally Processed Live Cell Graft

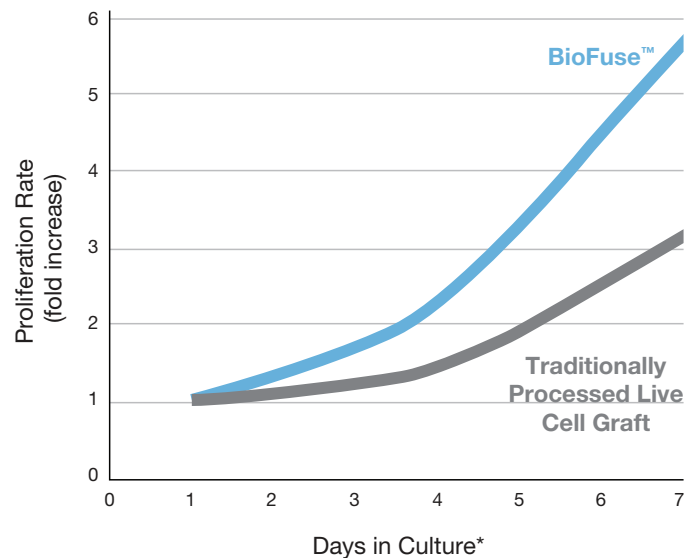


Osteocalcin: Most Abundant non-collagenous protein of bone matrix

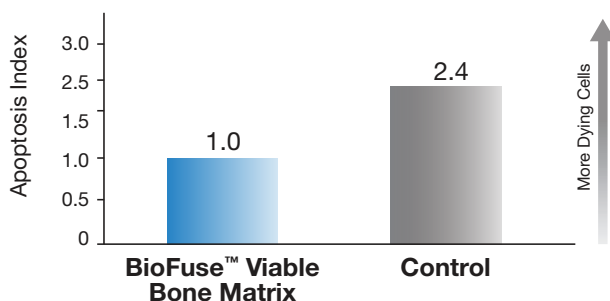
Osteopontin: Glycoprotein secreted by osteoblasts important in bone remodeling

Collagen Type-1: Major ECM protein in bone matrix produced by osteoblasts

2X Faster Rate of Cell Proliferation



50% Less Apoptosis



Analysis of Caspase Levels via Luminescence

*Extensive invitro testing of manufactured lots (n=20) demonstrated an average of just over 1 million cells/cc.

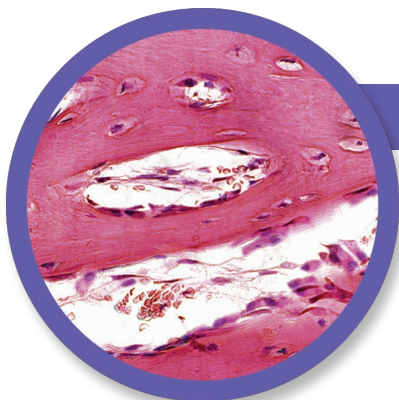
BioFuse™ delivers a complete bone formation solution for challenging patient conditions



Unique Osteoconductivity

Proprietary Processing Produces; Unique Scaffold that Unlocks Higher Levels of Bone Formation Factors

- Cortical bone is demineralized to a level that safely exposes more growth factors
- Growth factors are more bioavailable; they are protected by the matrix, without being trapped in the matrix



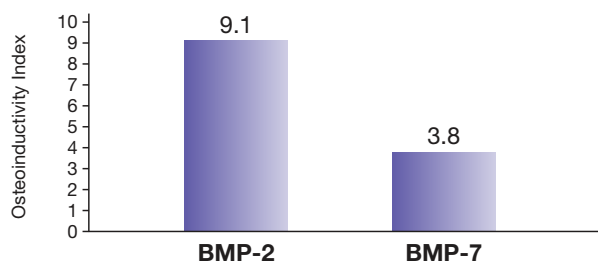
Enhanced Osteoinductivity

Proprietary Processing Increases; Amounts of Bone Formation Factors for Cell Signaling

- Higher amounts of BMPs-2 and BMPs-7
- Greater amounts of bone remodeling factors, more cell proliferation, and increased amounts of angiogenesis stimulators

Optimized Osteoinductivity

BioFuse™ process yields 9-fold higher BMP-2

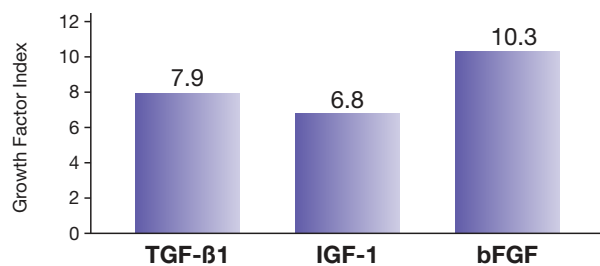


BMP-2: Induces differentiation of uncommitted progenitor cells.

BMP-7: Induces differentiation during endochondral and primary bone formation. Up-regulates ALP and osteocalcin.

Beyond BMPs:

Increases Bone Formation Factors



TGF-β1: Regulation of bone remodeling

IGF-1: Stimulates proliferation and function, and survival of osteoblasts. Maintain skeletal homeostasis during bone remodeling

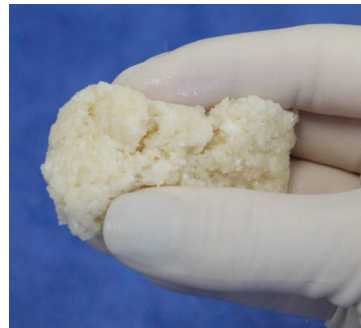
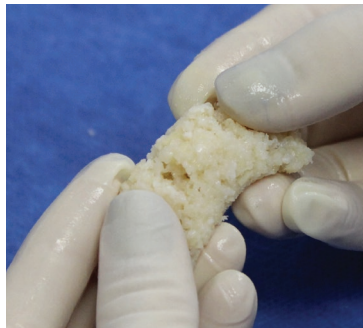
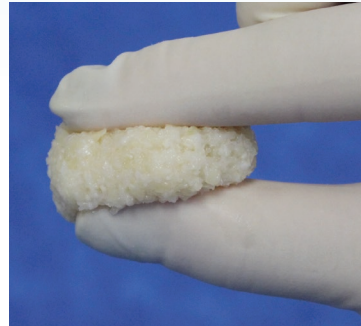
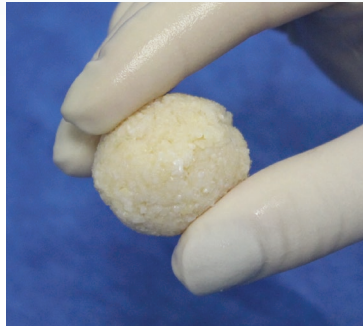
bFGF: Stimulates angiogenesis, endosteal and endochondral bone formation



Fast Preparation and Easy Malleability

Proprietary Processing Yields an OR Friendly Graft

- Thaws within 5-15 minutes, no decanting required
- Molds, forms, and packs into any shape



BioFuse™ Viable Bone Matrix

Part #	Description
145-10000	BioFuse Viable Bone Matrix 1cc
145-20000	BioFuse Viable Bone Matrix 2cc
145-50000	BioFuse Viable Bone Matrix 5cc

300 Interpace Parkway
Suite 410
Parsippany, NJ 07054
Phone: 973.588.8980
Customer Service: 888.499.0079
Fax: 888.499.0542
www.extremitymedical.com



Refer to the package insert
supplied with product for
specific information on indications
for use, contraindications,
warnings, precautions, and
adverse reaction information

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