

# BEAST™

## DEMINERALIZED BONE MATRIX

BEAST™ INJECTABLE PUTTY / BEAST PLUS™ / BEAST™ OSTEOBIOLOGIC SPONGE (BOB™)

The Paragon 28® BEAST™ Demineralized Bone Matrix (DBM) product family consists of three unique product lines that are patented in form, exemplify extraordinary handling properties<sup>1</sup>, and have been distinguished from other DBM products in the market by proven clinical results<sup>2</sup>.

## FEATURES OF BEAST™ DBM PRODUCTS

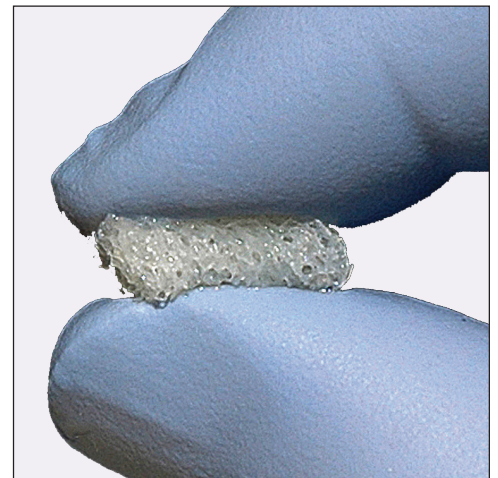
- **Osteoconductive grafts with osteoinductive potential**
- **Exemplary handling characteristics** – allows for controlled and accurate implantation
- **Proprietary processing** – Compression benchmarks through demineralization maintains peak osteoinductive potential and preserves native BMPs (Bone Morphogenetic Proteins)
- **Safe and consistent** – Products tested for max sterility after sterile processing as well as tested in vivo to assure osteoinductive potential



BEAST™ Injectable Putty



BEAST PLUS™



BEAST™ OsteoBiologic Sponge (BOB™)

# BEAST™

INJECTABLE  
PUTTY

DEMINERALIZED BONE MATRIX

BEAST™ Injectable Putty was engineered for superior performance<sup>1</sup>. The graft does not adhere to gloves yet maintains its placement in the surgical environment. Osteoinductivity of sterile final product is assessed in vivo. In this challenging model, every lot tested to date has consistently demonstrated an osteoinductive response.

## PRODUCT HIGHLIGHTS

- **Osteoinductive** – assured osteoinductive potential via validated processing
- **Proven efficacy** – equivalent to iliac crest autograft proven in a preclinical spinal fusion model<sup>2</sup>
- **Cohesive handling** – resists irrigation due to robust biocompatible carrier
- **Sterility assurance level (SAL) 10<sup>-6</sup>** – terminal sterilization ensures the highest level of patient safety
- **Both injectable and moldable** – flexibility in delivery to the surgical site
- **3 years shelf life, room-temperature storage** – convenient and ready to use



## ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION
P01-DBM-2010	BEAST™ Injectable Putty, 1.0 cc
P01-DBM-2025	BEAST™ Injectable Putty, 2.5 cc
P01-DBM-2050	BEAST™ Injectable Putty, 5.0 cc
P01-DBM-2100	BEAST™ Injectable Putty, 10.0 cc

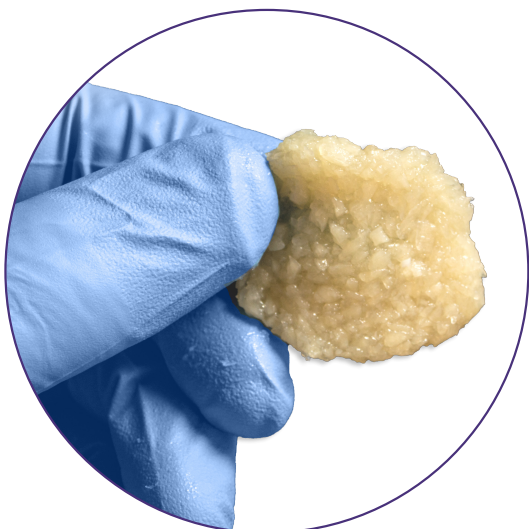
# BEAST<sup>+</sup>

DEMINERALIZED BONE MATRIX

BEAST™ Injectable Putty is premixed with cortical chips to create BEAST PLUS™ eliminating the need for cumbersome intraoperative mixing. Utilizing demineralized instead of mineralized cortical chips ensures that the additional graft material does not diminish osteoinductivity.

## PRODUCT HIGHLIGHTS

- **Differentiated Texture** – BEAST™ Injectable Putty combined with demineralized cortical chips (1-4 mm)
  - Eliminates the need for intraoperative mixing while maintaining the osteoinductive potential of the graft
- **Proven efficacy** – equivalent to iliac crest autograft proven in a preclinical spinal fusion model<sup>2</sup>
- **Osteoinductive** – assured osteoinductivity via validated processing
- **Cohesive handling** – resists irrigation due to robust biocompatible carrier
- **Sterility assurance level (SAL) 10<sup>-6</sup>** – terminal sterilization ensures the highest level of patient safety
- **Both injectable and moldable** – flexibility in delivery to the surgical site
- **Pre-Loaded in syringe** – no mixing necessary
- **3 years shelf life, room-temperature storage** – convenient and ready to use



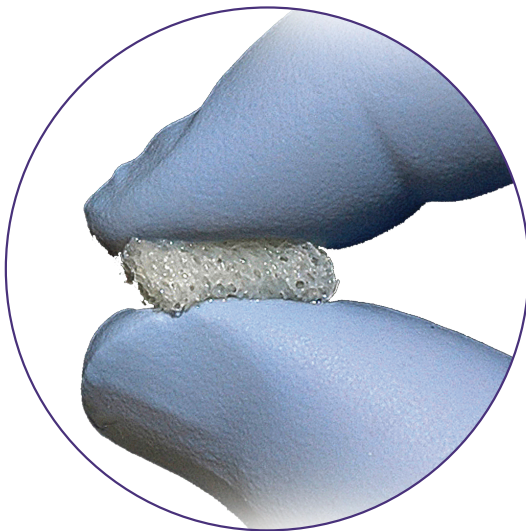
## ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION
P01-DBM-3025	BEAST PLUS™ Putty, 2.5 cc
P01-DBM-3050	BEAST PLUS™ Putty, 5.0 cc
P01-DBM-3100	BEAST PLUS™ Putty, 10.0 cc

BEAST™ OsteoBiologic Sponge (BOB™) is a novel form of demineralized bone matrix (DBM) made from 100% human trabecular bone. BOB™ provides a natural scaffold for cellular ingrowth and exposes bone-growth-inducing proteins to the healing environment. The malleable properties of BOB™ enable it to fill and conform to irregular bony defects. Positive clinical outcomes with BOB™ have been demonstrated in multiple peer-reviewed publications.

## PRODUCT HIGHLIGHTS

- **Osteoconductive** – interconnected porosity provides a scaffold for cellular ingrowth and proliferation
- **Osteoinductive potential** – patented demineralization process optimizes the preservation of inherent growth factors
- **Compressible handling** – compressible sponge readily conforms to fill defect, thus maximizing direct bone to graft contact
- **100% human demineralized cancellous bone**
- **Sterility assurance level (SAL) 10<sup>-6</sup>** – terminal sterilization ensures the highest level of patient safety
- **Fluid retention** – matrix absorbs bioactive fluids, like bone marrow aspirate, and supports cellular infiltration
- **Resists migration – even under direct irrigation**
- **Radiolucent** – graft material allows for a more accurate assessment of new bone formation
- **5 years shelf life, room-temperature storage** – convenient and ready to use



## ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION
P01-DBM-4006	BEAST OsteoBiologic Sponge (BOB™), 26 x 19 x 7 mm

## REFERENCES

- 1 Data on file at Xtant Medical.
- 2 Kiely, P.D. et al., (2014) Evaluation of a new formulation of demineralized bone matrix putty in a rabbit posterolateral spinal fusion model. The Spine Journal. September 14(9): 2155-2163

For the contraindications, potential complications and adverse reactions, warnings and precautions associated with this device, please refer to the device specific instructions for use at <http://www.paragon28.com/ifus>

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