



*Effective bone regeneration  
through Bone morphogenetic protein.*



**DBSTIK**  
Dramatic fusion and Bone growth



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DB STIK™ represents the next generation of DBM, Maintaining all the benefits of conventional pastes and putties, DB STIK™ has been formulated with the novel combination of four synergistic components.

- **Demineralized Bone Matrix (Human DBM)**
- **Starch**
- **Carboxymethylcellulose sodium salt (CMC)**
- **Glycerol**



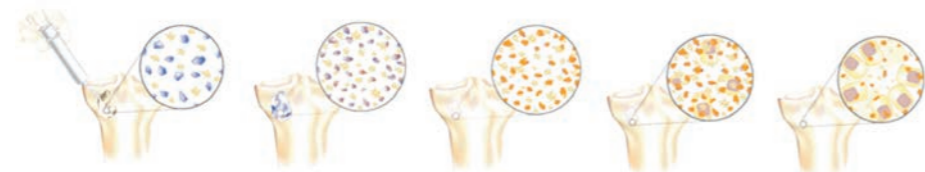
Merging the beneficial characteristics of four unique ingredients produce significant results, including:

- **Optimal bone fusion**
- **Superior handling and versatility for filling defective sites in osteotomy**
- **Insusceptible to irrigation - better bone graft containment**
- **Easy application : in accordance with insertion methods of kyphoplasty**

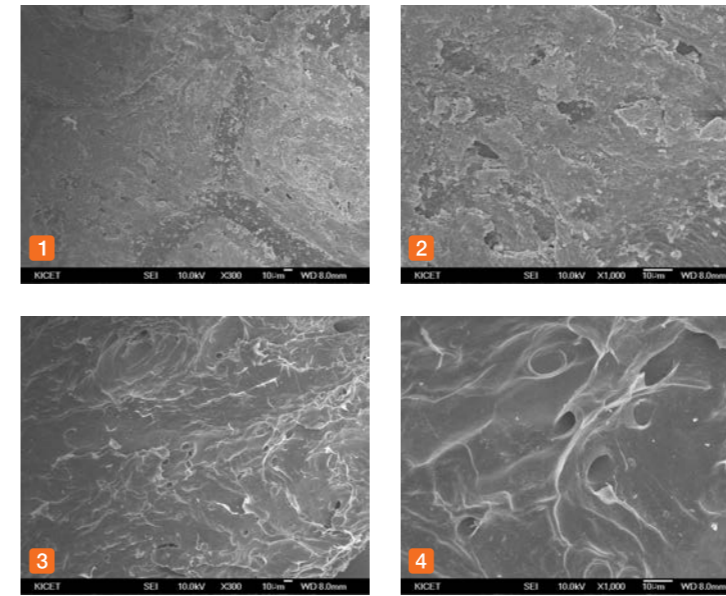
Bone matrices are demineralized by acid extraction of allograft bone, resulting in a loss of the majority of the mineralized components with retention of collagen and the collagenous proteins, including growth factors.

The efficacy of a demineralized bone matrix(DBM) as a bone-graft substitute or extender may be related to the total amount of bone morphogenetic protein(BMP) present and the ratios of the different BMPs present.

BMPs belong to the transforming growth factor(TGF) superfamily of proteins.



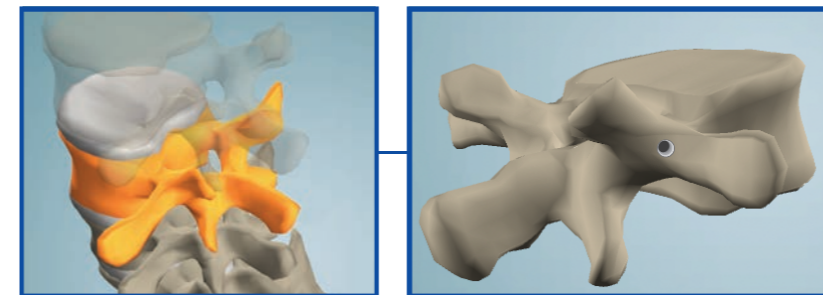
**Effective bone regeneration through Bone morphogenetic protein.**



**Naturally derived bone mixtures of BMPs contain molecules with higher specific activities**

SEM images show the surface images of the DBM with more flexibility than condensed normal bone. The flexible matrix of DBM expedites the release of potential bone morphogenetic proteins (BMPs).

- 1 Normal bone (X300)
- 2 Normal bone (X1,000)
- 3 Demineralized Bone matrix (X300)
- 4 Demineralized Bone matrix (X1,000)



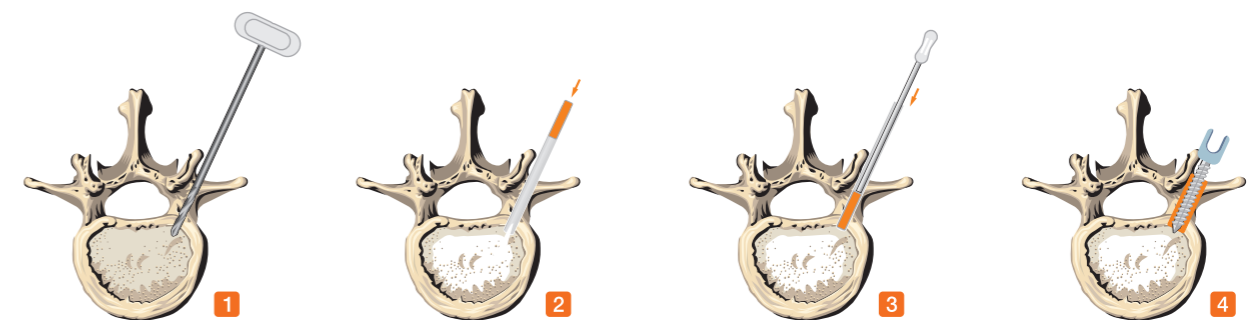
## INDICATION AND SURGICAL APPLICATION

**DB STIK™ can be used to fill depressions or gaps to keep the integrity of bone structure.**

Stick shaped inserter was modeled after Kyphoplasty procedure  
Pre-shaped moldable DBM can be used to fill spinal fracture for cervical and lumbar interbody fusion.

**DB STIK™ is a unique product which can be used in the arthroscopy**

After debridement of the cartilage, Insert the injectable DBM gel or paste through an arthroscopic portal. Applicable in 'lateral column lengthening procedure' in combination with open wedge or plate.



- 1 Drill through the pedicle area using bone driller.
- 2 After fill up with bone cement, insert the DB STIK into pedicle hole with caution.
- 3 After insert the DB STIK, gently pull the instrument 1 ~ 1.5 cm while pushing DB STIK with the pusher.
- 4 Make a scratch on the upper part of the DB STIK with guide awl in order to insert pedicle screw smoothly.