

Equivabone[®] Bone Graft Substitute

Moldable / Injectable

Sets Hard

Osteoconductive Scaffold

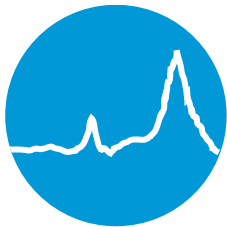


ZIMMER BIOMET

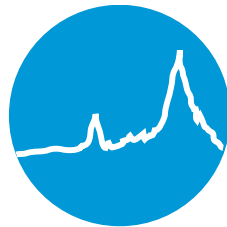
Your progress. Our promise.™



EquivaBone BGS combines the osteoinductivity of demineralized bone matrix (DBM) with the osteoconductivity, moldability, migration resistance, and hard setting characteristics of Etex proprietary nanocrystalline calcium phosphate technology.^{1,2}



Natural Bone
(X-ray diffraction)



ETEX[®] BSM
(X-ray diffraction)

Etex nanocrystalline* calcium phosphate is comparable to the mineral composition of human bone, providing a scaffold for new bone growth.



Equivabone Bone Graft Substitute

Equivabone Ordering Information

2.5 cc Kit 76-6027
5 cc Kit 76-6021
10 cc Kit 76-6022



PERFORMANCE CRITERIA		
CRITERIA	FEATURE	BENEFIT
Mixing	Bowl or syringe	Mix with blood or saline
Formulation	Proprietary nanocrystalline* calcium phosphate + DBM	Osteoconductive scaffold + osteoinductive stimulus
Handling	Moldable or Injectable putty	Multiple delivery options
Cohesive	Sets hard in a wet environment, may be irrigated after setting	Complete defect fill / resists wash out
Structure	Sets hard and maintains shape	Osteoconductive scaffold, migration resistant
Working Time	15 minutes (store in moist gauze)	Intraoperative flexibility
Setting Time	Sets in 10 minutes at 37°C ^{3,4}	Sets hard at body temperature
Crystallization process	Isothermic ^{5,6}	No thermal necrosis
Osteoinductivity	Each lot of DBM found in EquivaBone BGS has been demonstrated to have osteoinductive potential In Vivo	Each lot of DBM verified osteoinductive prior to release
Remodeling	Cell mediated remodeling ²	Remodels as the bone heals
Sizes	2.5 cc, 5 cc and 10 cc	Accommodates a variety of applications

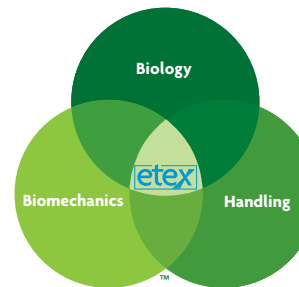
Please refer to package inserts for complete indications, contraindications, precautions and warnings.

Unlike other bone graft substitutes, EquivaBone BGS has a proprietary formulation that sets hard and remains in place during bone growth and remodeling.⁷

EquivaBone BGS

BGS

*The grain size of the hydroxyapatite (HA) crystals that form as part of the amorphous and crystalline mixture of calcium phosphate sets are on the nanometer scale. The size of crystalline structures were measured by x-ray diffraction to be less than 100 nanometers.



References

1. New Generation of Synthetic, Bioresorbable and Injectable Calcium Phosphate Bone Substitute Materials: Alpha-bsm®, Beta-bsm™ and Gamma-bsm™ By A. Tofighi, A. Rosenberg, M. Sutaria, S. Balata, J. Chang. Journal of Biomimetics, Biomaterials and Tissue Engineering. 2009.
2. DHF 080506
3. Etex TRE#081025
4. Etex TRE#081011
5. Etex TRE #21022
6. Etex TRE #030731
7. Osteoinductive Composites of Calcium Phosphate Cement and Demineralized Bone Matrix By Rosenberg, AD; Kuhn, LT; Gilles de Pelichy, L; Jolette, J. 2007.
8. Etex TRE #91001
9. Etex DHF 030902

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