

## Bone Graft Substitute

### Simple to use synthetic absorbable material designed to promote regeneration of bone in osseous defects

genex is specifically formulated to provide a balance of osteoconductive scaffold strength and persistence in the body with optimum handling, workability and remodeling.

### Completely absorbs to leave no trace

genex is a precisely balanced  $\beta$ -tricalcium phosphate and calcium sulfate hemihydrate compound with distinct design properties:

- Contains no hydroxyapatite (HA)
- Negatively charged surface chemistry
- Compressive strength similar to trabecular bone<sup>1-3</sup>
- Enhances osteogenic response<sup>7</sup>
- Completely absorbed within 12 months<sup>8</sup>
- Several studies have concluded healthy bone is restored in a clinically relevant timeframe<sup>4-6</sup>

### Strengthens Outcomes

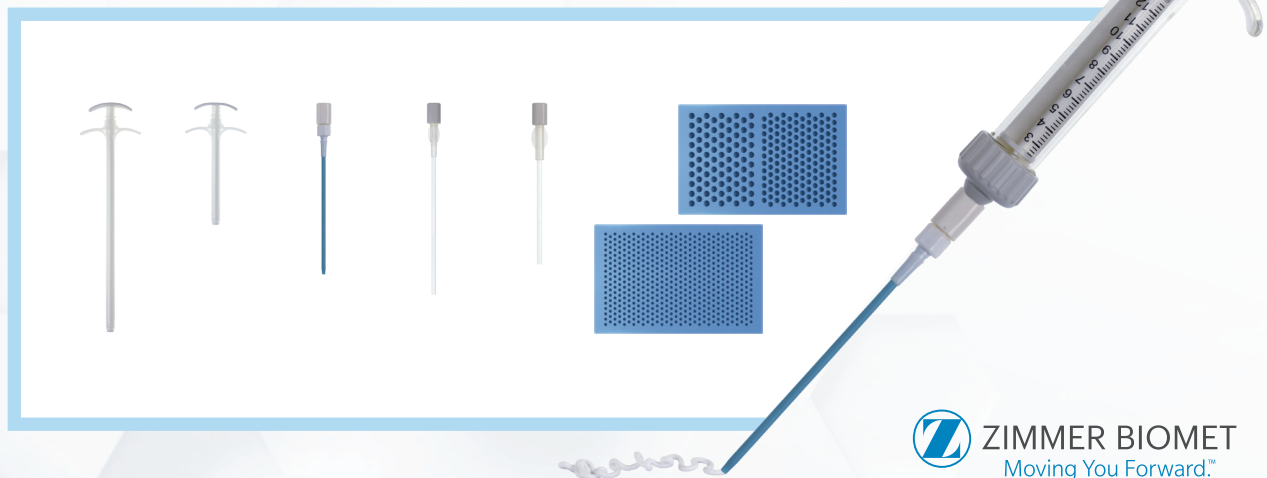
genex offers successful long-term outcomes across a range of surgical applications (not intrinsic to the stability of the bony structure), involving:

- Osseous defects
- Tibial plateau fractures
- Core decompressions
- Long bone non-unions
- Critical bone defects
- Humeral head fractures
- Acetabular voids and revisions

### Unrivalled flexibility for delivery and application

One of the most comprehensive bone graft substitute systems at your fingertips

- Closed-mixing system
- Injectable up to 3 minutes
- Moldable 3 to 5 minutes
- Drillable after 15 minutes



## Ordering Information

Part Number	910-010Z	910-005Z	910-003Z
<b>In the pack</b>	10cc	5cc	3cc
Mixing syringe with powder	●	●	●
Dispensing syringe	●	●	
Mixing solution	●	●	●
Bead mat	●	●	
Paste applicator	●	●	
Choice of cannulas	●	●	●
<b>Cannula sizes included</b>			
2.1mm inner diameter, 3.0mm outer diameter, insertion length 79mm, tapered, radiopaque (blue) cannula (12G)	●	●	
2.5mm inner diameter, 3.5mm outer diameter, insertion length 100mm, plastic cannula (11G)	●	●	●
3.15mm inner diameter, 3.75mm outer diameter, insertion length 70mm, plastic cannula (9G)	●	●	●
3.15mm inner diameter, 3.75mm outer diameter, insertion length 70mm, plastic cannula (9G)	●	●	
6mm inner diameter, 8mm outer diameter, insertion length 72mm, open bore plastic cannula with handle and obturator	●	●	
6mm inner diameter, 8mm outer diameter, insertion length 157mm, open bore plastic cannula with handle and obturator	●		

### REFERENCES

1. Biocomposites internal testing: Biomaterials Compressive strength; Applicable methodology ISO/DIS 18531:2015(E) Implant for surgery – Calcium phosphate bioceramics – Characterization of hardening bone paste materials. 2015, MA0390R1. • 2. Misch CE, Qu Z, Bidez MW. Mechanical properties of trabecular bone in the human mandible: implications for dental implant treatment planning and surgical placement. J Oral Maxillofac Surg. 1999 Jun;57(6):700-6; discussion 706-8. doi: 10.1016/s02782391(99)90437-8. PMID: 10368096. • 3. Dunham CE, Takaki SE, Johnson JA, Dunning CE. Mechanical properties of cancellous bone of the distal humerus. Clin Biomech (Bristol, Avon). 2005 Oct;20(8):834-8. doi: 10.1016/j.clinbiomech.2005.05.014. PMID: 16023773. • 4. Clinical case study: Mr HK Sharma; Tibial plateau fracture: Data on file. • 5. Clinical case study: Prof JB Richardson; Distal tibia non-union: Data on file. • 6. Clinical case study: Mr P Thompson; Single stage revision ACL reconstruction: Data on file. • 7. Cooper JJ et al. Enhancing the osteogenic potential of bioabsorbable implants through control of surface charge. Presented at the Society for Biomaterials 2007 Annual Meeting, April, 2007: Chicago, Illinois, USA. • 8. Yang HL et al. Bone healing response to a synthetic calcium sulfate/B-tricalcium phosphate graft material in a sheep vertebral body defect model. J Biomed Mater Res B Appl Biomater 2012;100B(7):1911-21.

All content herein is protected by copyright, trademarks and other intellectual property rights owned by or licensed to Zimmer Biomet or its affiliates unless otherwise indicated, and must not be redistributed, duplicated or disclosed, in whole or in part, without the express written consent of Zimmer Biomet. This material is intended for health care professionals and the Zimmer Biomet sales force. Distribution to any other recipient is prohibited. Biocomposites Ltd is the responsible manufacturer of Genex Bone Graft Substitute. For complete product information, including indications, contraindications, warnings, precautions, and potential adverse effects, see the package insert and [www.zimmerbiomet.com](http://www.zimmerbiomet.com) or contact your local Zimmer Biomet sales representative; for additional information visit [www.zimmerbiomet.com](http://www.zimmerbiomet.com) ©2022 Zimmer Biomet.



4052.1-US-en-Issue Date-2022-11  
VV-08717

**Manufacturer**  
Biocomposites, LTD  
Keele Science Park, Keele  
Staffordshire ST5 5NL, England  
[www.biocomposites.com](http://www.biocomposites.com)

Learn More >

