



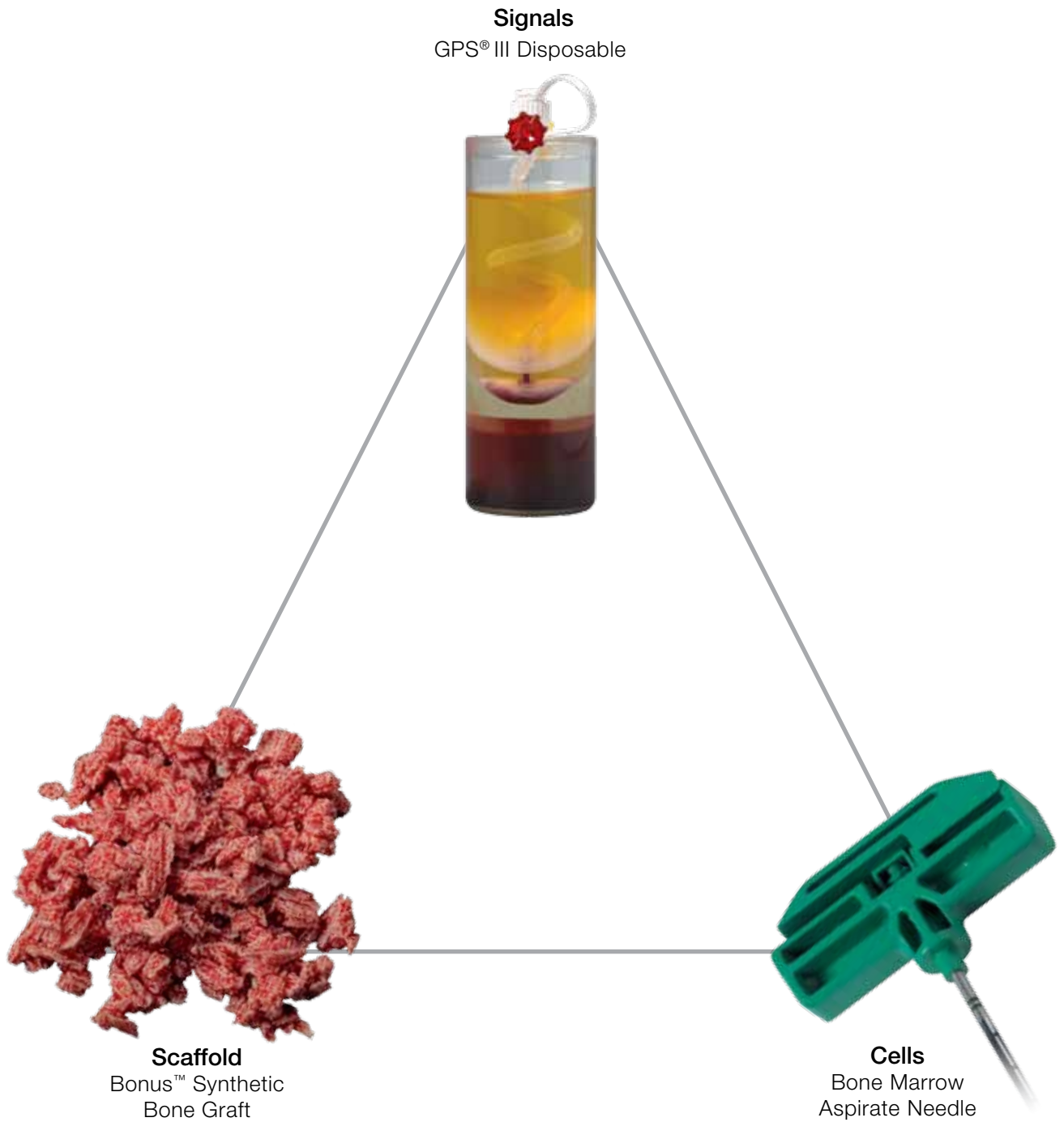
Bone Graft Convenience Kit

BIOMET[®]
BIOLOGICS

Bone Graft Convenience Kit

Bone Formation Triangle

Three key elements in bone formation include scaffold, cells and signals^{1,2}



Bonus™ Synthetic Bone Graft Substitute

The Structure Necessary for Bone Growth

Bonus™ Synthetic Graft resorbable bone graft is used to fill bone voids and acts as an osteoconductive porous scaffold for recruited cells.

15cc of Bonus™ Synthetic Graft is provided in each convenience kit and can be hydrated with bone marrow aspirate obtained using the supplied bone marrow aspiration needle. Bonus™ Synthetic Graft has been shown effective as a graft substitute in metaphyseal defects, lumbar fusions, and cervical fusions.³⁻⁵

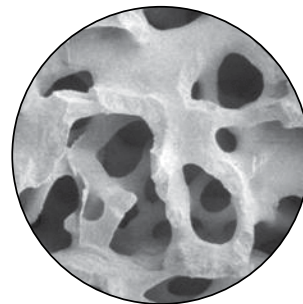


Performance

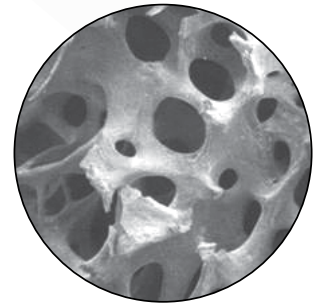
- Serves as a matrix for new bone growth with healing times comparable to autogenous bone grafts (see chart below)
- Eliminates risk of disease transmission
- Reduces need to harvest autologous bone graft

Structure

- 85% calcium carbonate, 15% hydroxyapatite
- Pores allow for fast wicking of fluids
- Architecture mimics human cancellous bone
- Pore sizes range from 26–770 micron
- 60–70% porous

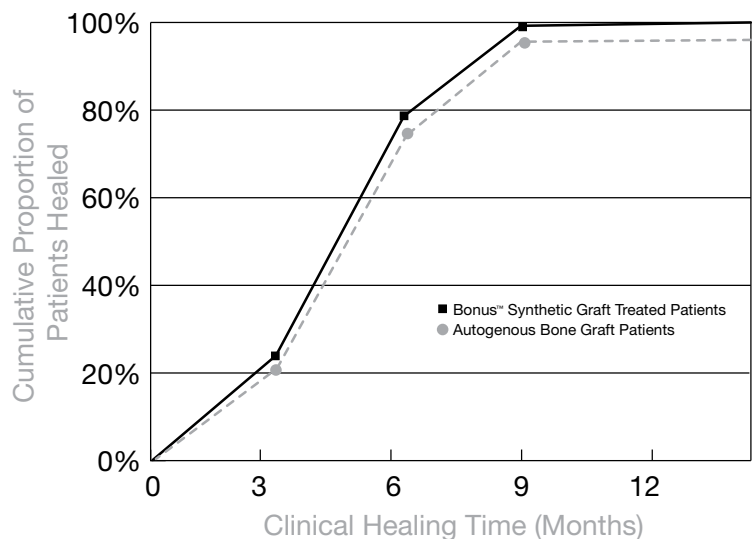


Cancellous Bone



Bonus™ Synthetic Graft

Bonus™ Synthetic* Graft vs. Autogenous Bone Grafting



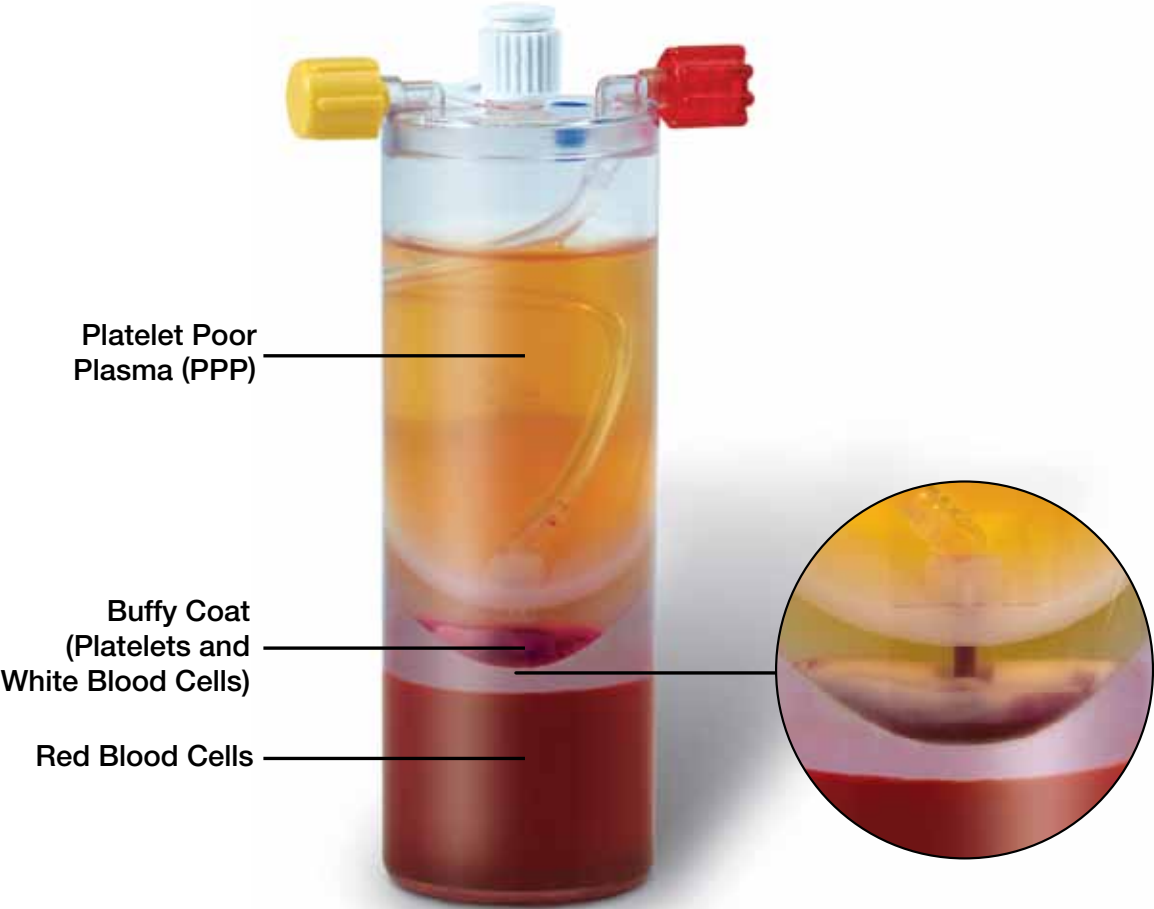
Bonus™ Synthetic* Graft is shown to be equivalent to autogenous bone graft in clinical healing patterns of metaphyseal defects.³

*Bonus™ synthetic bone graft substitute is the equivalent of Pro Osteon® 500R.

GPS® III Platelet Concentration System

Platelets Matter

The GPS® III System produces 6ml of platelet rich plasma from a 60ml input. The PRP will contain over 90% of the available platelets and 50% of the available white blood cells. This concentrated output can be combined with autograft or allograft bone.



60ml GPS® III Disposable
Platelet Increase Over Baseline Level — 9.3×10^6
White Blood Cell Increase Over Baseline Level — 5×10^6

Bone Marrow Aspirate Needle

Harvesting the Patient's Own Cells


Bone marrow aspirate contains cells which can differentiate into bone. Aspiration of bone marrow allows the surgeon access to the patient's own population of stem cells. Bone marrow aspirate can be used to hydrate Bonus™ Synthetic Graft.

Features of Bone Marrow Aspiration Needle

- Aspirate can be obtained from a variety of anatomical locations including the iliac crest, tibia and calcaneus
- Five holes placed at distal tip, allowing for better aspiration
- One stylet with trocar point for penetration of the cortical bone into the bone marrow cavity
- One stylet with blunt tip for easy movement of the needle within the bone marrow cavity



Ordering Information

	Description	Catalog Number
	Bone Graft Convenience Kit (Contains BMA 5-bore needle, 15cc of Bonus™ graft, GPS® III 60ml disposable)	800-0535

References

1. Wilkins, R.M. *et al*, Percutaneous treatment of long bone non-unions: the use of autologous bone marrow and allograft bone matrix. *Orthopaedics*. 26: 549-554, 2003.
2. Arrington E.D. *et al*, Complications of iliac crest bone graft harvesting. *Clinical Orthopaedics and Related Research*. 329: 300-309, 1996.
3. Bucholz R.W. *et al*, Interporous Hydroxyapatite as a Bone Graft Substitute in Tibial Plateau Fractures. *Clinical Orthopaedics and Related Research*. No. 240, March 1989.
4. Thalgot J.S., *et al*. Anterior interbody fusion of the cervical spine with coralline hydroxyapatite. *Spine*. 24(13):1295-9, 1999.
5. Thalgot J.S., *et al*. Instrumented posterolateral lumbar fusion using coralline hydroxyapatite with or without demineralized bone matrix, as an adjunct to autologous bone. *Spine Journal* 1(2):131-7, 2001.
6. Data on file at Biomet Biologics™ LLC. Bench test results are not necessarily indicative of clinical performance.

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