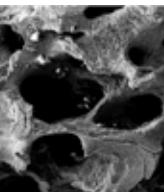
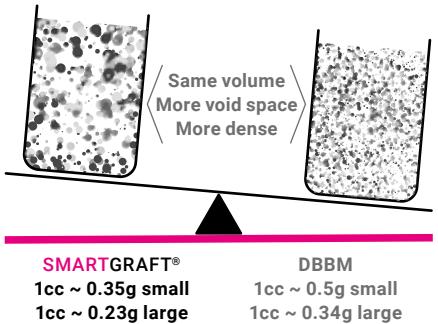


CELL ADHESION

The rough surface of human-like porcine particles facilitates the attachment of new cells.^{1,2}



Rough surface, large pores, and high porosity enhance bone ingrowth.



CELL MIGRATION/INFILTRATION

Facilitates vascularization and bone ingrowth.

- Smartgraft's high porosity and large pores enhance vascularization, bone ingrowth and osteointegration of the implant after surgery.
- Smartgraft's macropores range from 0.1mm to 1.0mm.
- Native porous carbonate apatite possesses the natural pore structure for cell conduction.

REGENERATION

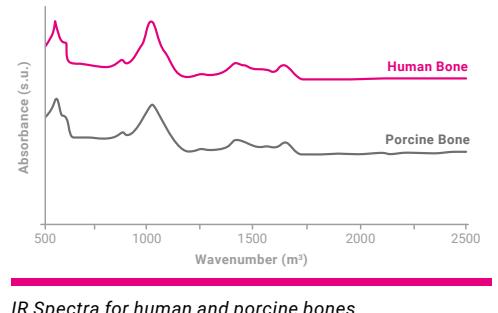
Native porcine graft provides a human-like structure for balanced remodelling.⁹

The anorganic bone mineral matrix has interconnections that reduce the bulk density of the graft and allows for more void space for the growth of new bones.¹⁰

As a porcine-derived bone, Smartgraft accelerates alveolar bone healing as compared to Deproteinized Bovine Bone Mineral (DBBM).^{11,12}

The proprietary purification process preserves carbonate apatite¹³, which has been shown to increase the bone forming activities of **osteogenic** cells and to enhance bioresorption of bone graft by **osteoclasts**.¹⁴⁻¹⁸

The **biocompatibility** is supported by the proprietary purification process of the graft.¹⁹



LITERATURE

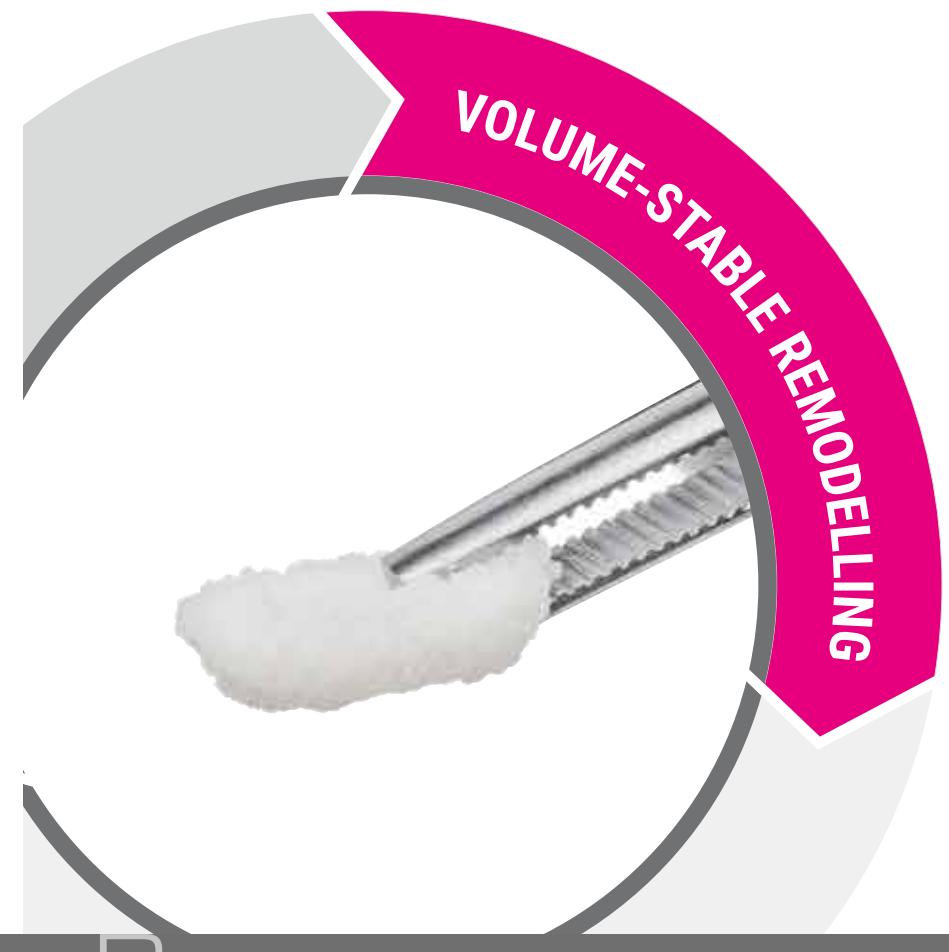
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Note: Smartgraft is a registered brand of Regedent AG and manufactured by Collagen Matrix Inc. HYADENT BG is a registered brand and manufactured by BioScience GmbH. Smartbrane is a registered brand and manufactured by Regedent AG

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SMARTGRAFT

Human-like native porcine graft

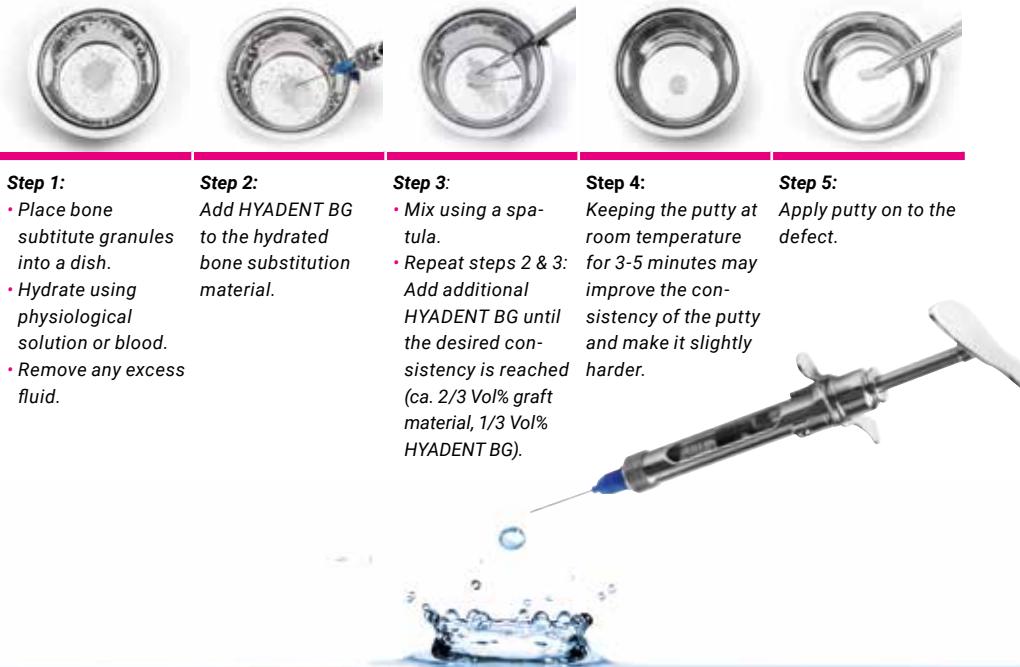


SIX REASONS

TO ADD HYADENT BG TO SMARTGRAFT

- 1** Sticky bone can be prepared with this out-of-the box gel and Smartgraft in 3 minutes.
- 2** As hydrophilic agent, hyaluronic acid (HA) stabilizes blood clot and attracts growth factors to support and accelerate bone formation.²⁰⁻²³
- 3** HA supports angiogenesis.²⁴
- 4** HA's high molecular weight reduces swelling and discomfort while supporting scar-less healing.²⁵
- 5** HA has natural bacteriostatic properties.²⁶
- 6** HA's special formulation remains present throughout the various phases of the healing process due to its slow degradation pattern (several weeks).²²

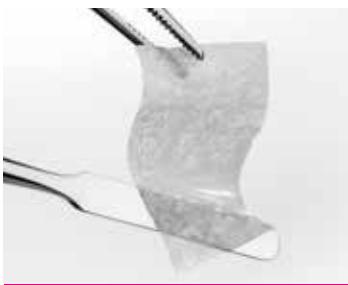
Preparation of stable graft material:



FOUR REASONS

TO USE SMARTBRANE WITH SMARTGRAFT

- Smartbrane ensures adequate tensile strength to safely maintain bone graft stability and structure.²⁷
- Smartbrane is adaptable to bony surfaces without sticking to the graft or the instrument.³¹
- Smartbrane has a resorption time of 8-12 weeks that can even be extended with Hyadent BG by several weeks.^{28, 29}
- Smartbrane supports blood clotting and cell attachment.^{1, 3, 30}



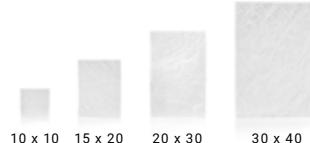
SMARTBRANE rehydrated: excellent adaptation to surfaces without sticking to graft or instrument.

AVAILABLE PRODUCTS



SMARTGRAFT

Size	Article number
0.50 cc / 0.25 – 1.00 mm	0114.101
1.00 cc / 0.25 – 1.00 mm	0114.102
2.00 cc / 0.25 – 1.00 mm	0114.103
4.00 cc / 0.25 – 1.00 mm	0114.105
1.00 cc / 1.00 – 2.00 mm	0114.112
2.00 cc / 1.00 – 2.00 mm	0114.113
0.25 cc / 0.25 – 1.00 mm syringe	0114.450
0.50 cc / 0.25 – 1.00 mm syringe	0114.451



SMARTBRANE

Size	Article number
10 x 10 mm	0121.200
15 x 20 mm	0121.201
20 x 30 mm	0121.202
30 x 40 mm	0121.203



hyadENT BG

Size	Article number
2 x 1.2 ml ampulla	BS091

