

BONESIGMA™ BCP

BIPHASIC CALCIUM PHOSPHATE GRANULES



WHAT IS BONESIGMA™ BCP

BoneSigma™ BCP is a bone graft substitute with fully interconnected micro and macropores. It is a biphasic calcium phosphate (BCP) osteoconductive bioceramic material consisting of 60% hydroxyapatite (HAp) and 40% beta-tricalcium phosphate (β -TCP). BoneSigma™ BCP provides long term stabilization of the surgical site in most dental implant surgeries. BoneSigma™ BCP is available in granules.



Biphasic Calcium Phosphate Granules

Granule Size	0.50-1.00 mm			
Weight	0.25 g	0.50 g	0.75 g	1 g
Vials	Single or bundle package available			

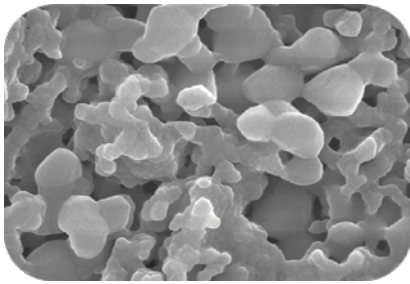


SIGMAGRAFT

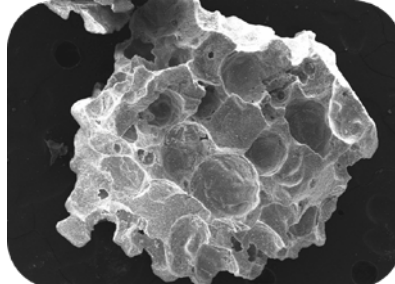
THE BONE GRAFT SUBSTITUTE SPECIALISTS

BENEFITS

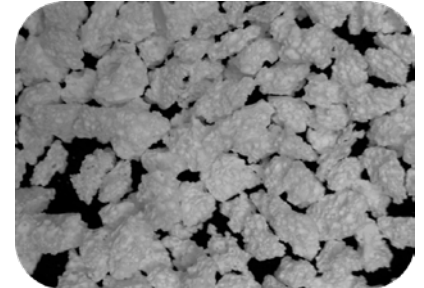
- ✔ 100% synthetic material enabling ingrowth of health bone tissue
- ✔ Dual phase material consisting of 60% hydroxapatite (HAp) and 40% beta-TCP phase allows similar resorption rate to human bone
- ✔ Interconnected and well distributed micro and macropores enhancing the osteoconductivity
- ✔ Enhanced bioactivity due to polygonal shape and large surface area
- ✔ Large porosity of $\geq 70\%$ with bimodal pore distribution



Microporous structure

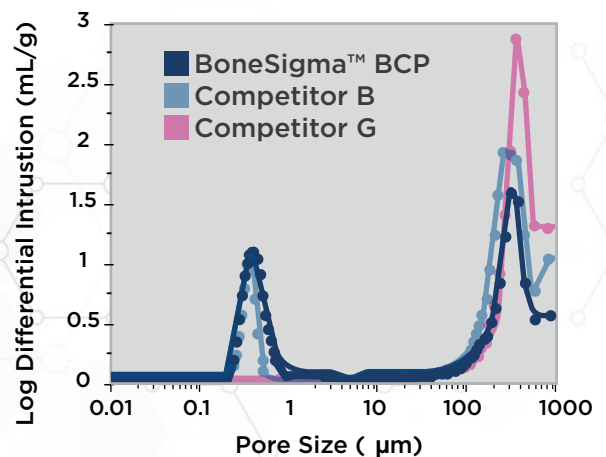


Macroporous structure



BoneSigma™ BCP granules

	SigmaGraft Inc. BoneSigma™ BCP	Competitor B	Competitor G
BET Specific Surface Area	$\approx 3.03 \text{ m}^2/\text{g}$	$\approx 2.04 \text{ m}^2/\text{g}$	$\approx 0.08 \text{ m}^2/\text{g}$
Total Pore Area	$\approx 3.92 \text{ m}^2/\text{g}$	$\approx 2.61 \text{ m}^2/\text{g}$	$\approx 0.18 \text{ m}^2/\text{g}$
Pore Distribution	Bimodal (Micro- & Macropores)	Bimodal (Micro- & Macropores)	Monomodal (Only Macropores)
Porosity	$\geq 70\%$	$\geq 70\%$	$\geq 70\%$



Contact Us

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