BIOTECK®
The science of bone tissue

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Headquarters

Bioteck® is an Italian company producing bone substitutes and protective membranes that are successfully used in orthopedics, neurosurgery, oral and maxillofacial surgery.
Founded in 1995, the company continues to grow constantly and now operates in more than 50 countries around the world. A firm commitment to scientific research forms the basis for the innovative solutions offered by **Bioteck®** products. The company collaborates on numerous national and international research projects, which have driven the basis research and helped in writing important chapters in bone biology.
The in-depth knowledge acquired by **Bioteck®** through its research ensures the absolute quality of its products, which are subjected to strict environmental and quality controls, thereby guaranteeing a product meeting the highest quality and safety standards. **Bioteck®** applies a policy of total transparency, opening up the doors of its Production and R&D Center for the monitoring of its innovative manufacturing process and the intense scientific research carried out by its staff.

Production and R&D Center

concept: mauro forlani - vi cod. 150730_D_SY_C_EN01-01

Quality and safety guarantee

Biochemical Laboratory/Quality Control

CE
0434

3 Synt® - a line of ß-TCP bone substitutes for oral and maxillofacial surgery, orthopedics and neurosurgery.

ISO 9001 ISO 13485

BIOTECK®
The science of bone tissue

synthetic

radiopaque

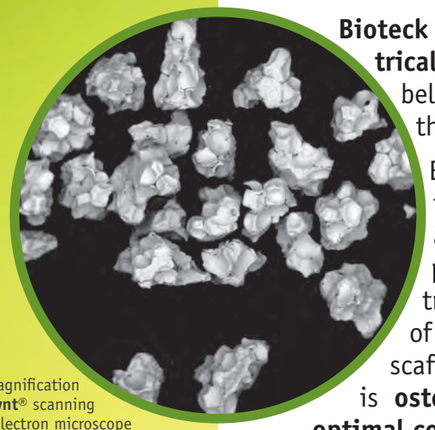
resorbable

osteoconductive

3 Synt®

ß-TCP bone substitutes

3 Synt® - The synthetic alternative to autologous bone

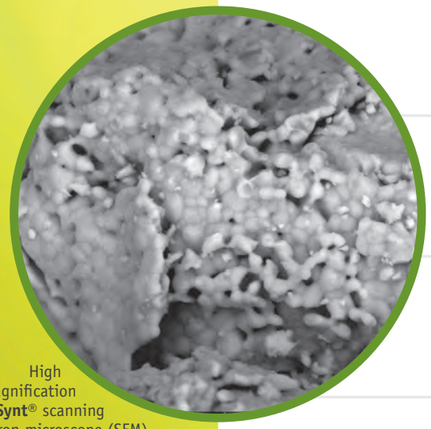


Low magnification **3 Synt®** scanning electron microscope (SEM) image. The irregular shape of granules allows for perfect filling of the graft site. The graft cannot be over-compacted and blood-vessel growth among the granules is unhindered. The granules act as a scaffold for new bone-tissue generation

Padua University, CUGAS Service Centre

Bioteck 3 Synt® is a granular bone substitute made of **beta-tricalcium phosphate** (ß-TCP). ß-TCP is a calcium salt that belongs to the same chemical family as hydroxyapatite, the mineral component of bone.

Being synthetic, **3 Synt®** is **completely safe**: it is free from any immunogenic element and cannot transmit any disease. Thanks to the special manufacturing process, **3 Synt®** granules feature the most appropriate tridimensional shape, which allows for **optimal filling** of any defect, no matter how irregular. Acting as a scaffold that supports new bone formation, **3 Synt®** is **osteoconductive**. Its **macro and microporosity** allow **optimal colonization** by blood vessels and osteogenic cells.
3 Synt® is resorbed both through hydrolysis and by a cellular-mediated mechanism. Because of this, **3 Synt®** features the ideal resorbing time for the surgical applications it is indicated for.



High magnification **3 Synt®** scanning electron microscope (SEM) image. The granule porosity is the ideal substrate for blood-vessel adhesion and cellular proliferation

Padua University, CUGAS Service Centre

100% synthetic ß-TCP

easy-to-handle

optimal porosity

perfect radiopacity

replaced by newly formed bone

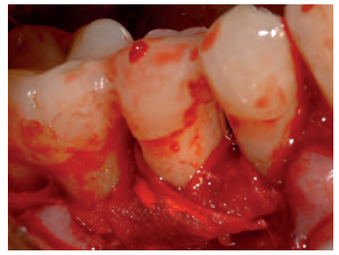
3 Synt® indications

- **Small peri-implant defects**
- **Periodontal and not-periodontal small 4-walls defects**

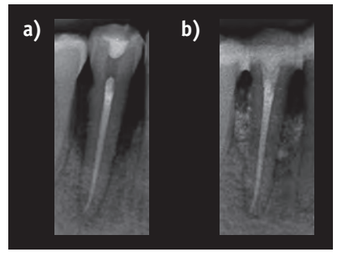
3 Synt® in the treatment of a periodontal defect

The defect is exposed

The defect is filled with **3 Synt®** granules



The graft is protected with a resorbable membrane



a) Pre-surgical radiograph
b) Post-surgical radiograph, **3 Synt®** granules are clearly visible

Courtesy of Dr. Danilo Di Stefano, Milan, Italy

The blister design enables a direct hydration with saline

Because of its **significative radiopacity**, **3 Synt®** can be easily visualized and its resorption monitored by radiographs and computed tomographic (CT) scans. **3 Synt®** is sterilized by gamma irradiation. The **double blister** packaging allows correct handling during surgery and greatly reduces the risk of microbiological contamination. The design of the packaging enables the product to be hydrated without the need for an additional container, again **reducing manipulation steps and minimizing the risk of contamination**.

3 Synt®
is available in several formats:

SY-M05N	1 blister	0.50 cc	*500-1000 µm*
SY-M10N	1 blister	1.00 cc	*500-1000 µm*
SY-M20N	1 blister	2.00 cc	*500-1000 µm*

available also in 3-blisters packaging

SY-M05	3 blisters	0.50 cc	*500-1000 µm*
SY-M10	3 blisters	1.00 cc	*500-1000 µm*
SY-M20	3 blisters	2.00 cc	*500-1000 µm*