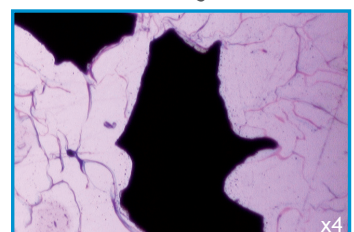
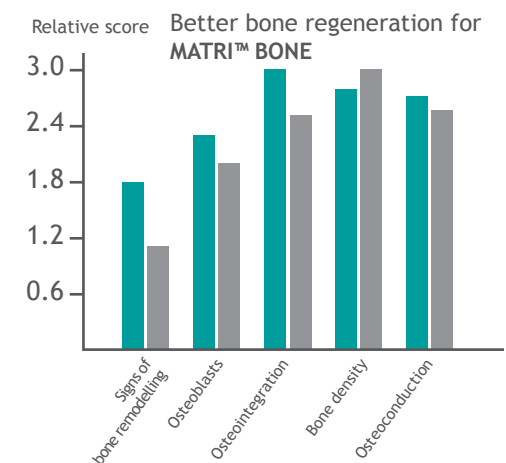
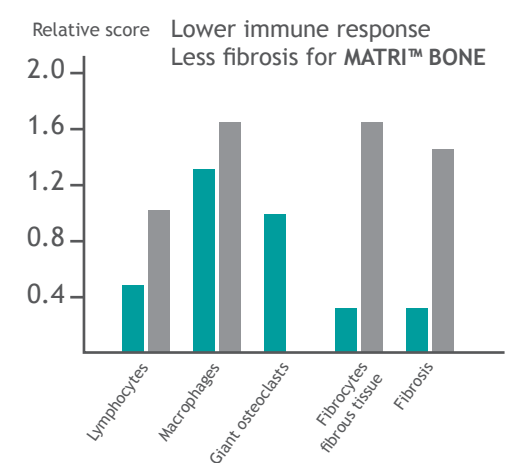
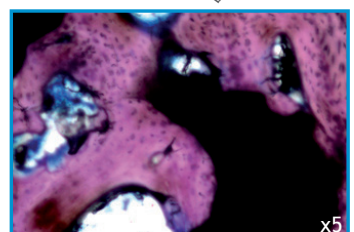




A comparative pre-clinical study of Matri™ BONE and another collagen based bone substitute on the rabbit model*:



MATRI™ BONE before implantation: the bone substitute granules (black) are surrounded by a porous collagenous matrix.



MATRI™ BONE after 3 months: the bone substitute granules are surrounded by newly formed bone (violet). Good integration can be noted with no sign of osteolysis.

* Evaluation of safety and efficacy of an osteoconductive medical device (product code EPM-mineralized sponge) following intraosseous implantation in the rabbit for 4 and 12 weeks. Study Namsa Biomatech n° 66031 March 25, 2009.

Product safety:

Biom'Up's collagen is based on a xenogenic acellular collagen. In addition, the Biom'Up collagen extraction process integrates validated steps for the inactivation of bacteria and viruses.

MATRI™ BONE has been designed and developed by Biom'Up, in compliance with European regulations (CE marking) and applicable international standards.



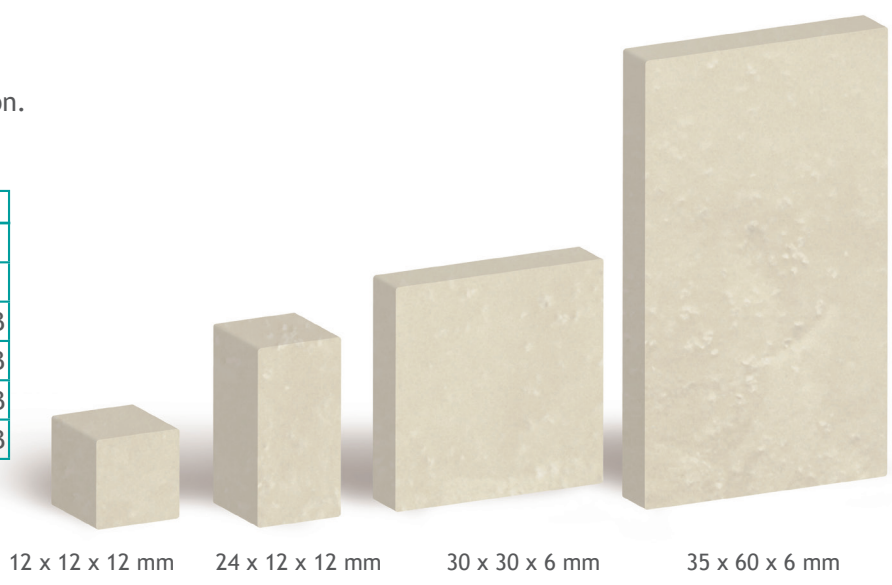
DENTAL SURGERY
MAXILLOFACIAL & IMPLANTOLOGY



BIOTECH
DENTAL GROUP

Each single unit of MATRI™ BONE is double packed and sterilized by irradiation.

Dimensions (mm)	References	
	Size grading	
	80-200 µm	0.5-1 mm
12 x 12 x 12	MAB121212S	MAB121212B
24 x 12 x 12	MAB241212S	MAB241212B
30 x 30 x 6	MAB303006S	MAB303006B
35 x 60 x 6	MAB356006S	MAB356006B



Manufactured by:

biom'up
INNOVATIVE BIOSURGERY
8, allée Irène Joliot Curie - 69800 Saint Priest - France
Tél. : +33 (0)4 86 57 36 10 - Fax : +33 (0)4 37 69 00 84
RCS Lyon: 481 014 041 00034
contact@biomup.com - www.biomup.com

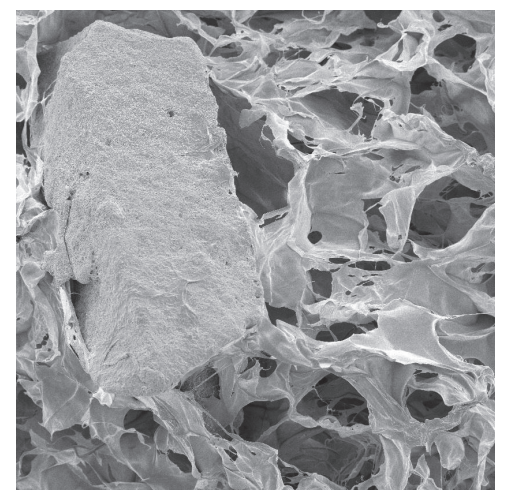
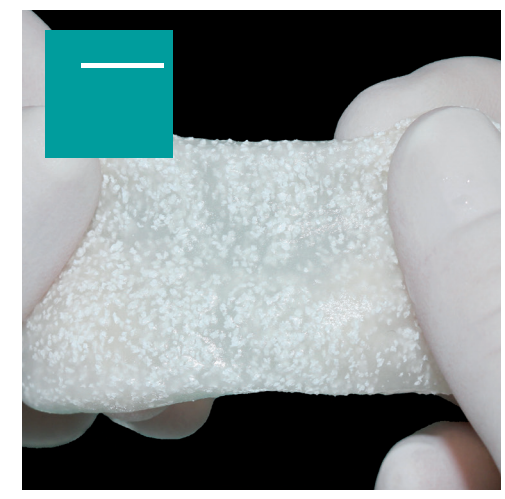
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Implantable Medical Devices for surgery. For use only by healthcare professionals, not refunded by Social Security. Carefully read the instructions on the notice and labelling prior to use. COVA™ MAX, MATRI™ BONE, medical devices Class III. Notified Body SNCH, Manufacturer: Biom'Up SA France

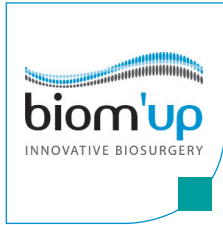
BIOTECH
DENTAL GROUP
305 allées de Craponne - 13300 Salon de Provence - France
Tél. : +33 (0)4 90 44 60 60 - Fax : +33 (0)4 90 44 60 91
info@biotech-dental.com - www.biotech-dental.com



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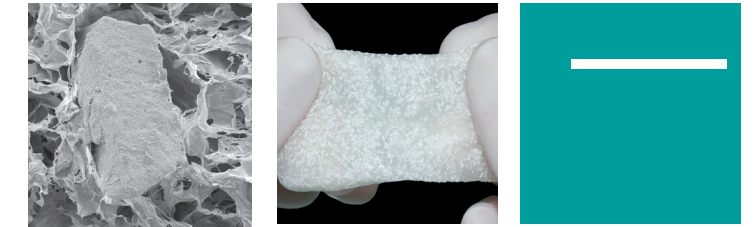
biom'up
INNOVATIVE BIOSURGERY



The MATRI™ BONE and COVA™ MAX devices are innovative products using technology which has been tried and tested by major dental surgeons, implantologists and maxillofacial surgeons. These two flagship products, developed by Biom'Up from their unique knowledge of galenic formulation collagen, are distributed by Biotech Dental, leading French manufacturer in the dental implant sector.



MATRI™ BONE



AN INNOVATIVE BIOMATERIAL FOR MAXILLO-FACIAL AND DENTAL APPLICATIONS

■ ■ ■ A bone substitute that supports regeneration:

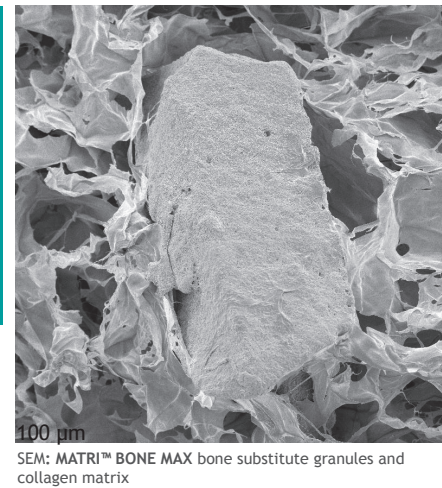
Bone tissue is naturally capable of self-remodelling and regeneration. However, in many clinical situations an additional supply of bone stock is required. MATRI™ BONE is a biphasic ceramic which also contains collagen thus ensuring excellent compatibility and functionality.

Thus being cell friendly as well as having handling properties makes MATRI™ BONE the perfect choice for guided bone regeneration in dental and maxillofacial surgery ¹.

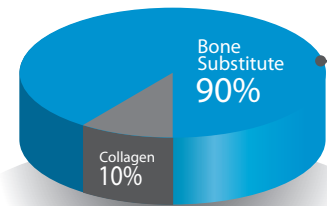
MATRI™ BONE:

A haemostatic, resorbable, osteoconductive bone substitute matrix.

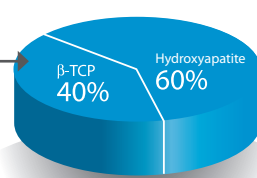
- MATRI™ BONE is a dispersed granular biphasic synthetic bone substitute in a collagen matrix (type I+III).



SEM: MATRI™ BONE MAX bone substitute granules and collagen matrix



Composition of MATRI™ BONE (by weight)



Composition of bone substitute phase (by weight)

- Two different particulate grades of MATRI™ BONE are available:
 - 80 to 200 µm
 - 0.5 to 1 mm



■ ■ ■ Indications:

MATRI™ BONE is indicated for use in bone augmentation and reconstruction:

- Filling of bone defects
- Reconstruction of the alveolar ridge
- In combination with guided tissue or bone regeneration products (e.g. Biom'Up's COVA™ MAX) for filling bone defects and sinuses in preparation for implants
- In combination with guided bone regeneration products for peri-implant reconstruction

Directions for use:

- Can be resized before use
- Can be mixed with blood



■ ■ ■ The advantages of MATRI™ BONE :

The combination of collagen and a biphasic bone substitute:

- Collagen enables the creation of a structure and is cell friendly ²
- During resorption of the collagen amino acids, metabolised by cells, are released

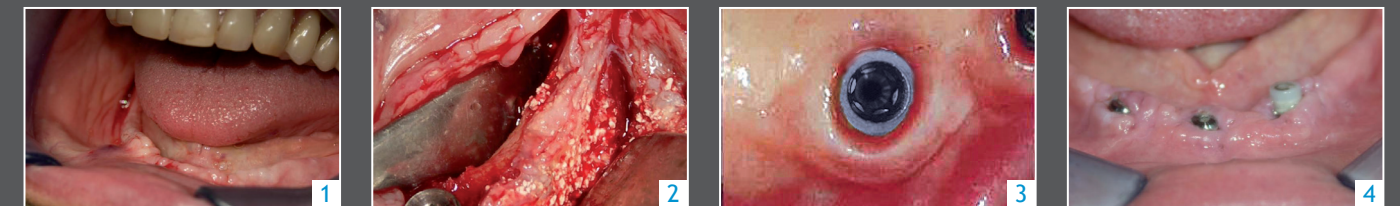
Unique composition of MATRI™ BONE allows:

- Resorption of collagen in 1 month and remodelling of the bone substitute by cells from 3 months ³
- The stability of the matrix enables it to serve as a support (e.g. antibiotic, PRF (Platelet Rich Fibrin))
- Malleable material ⁽²⁾

Clinical applications

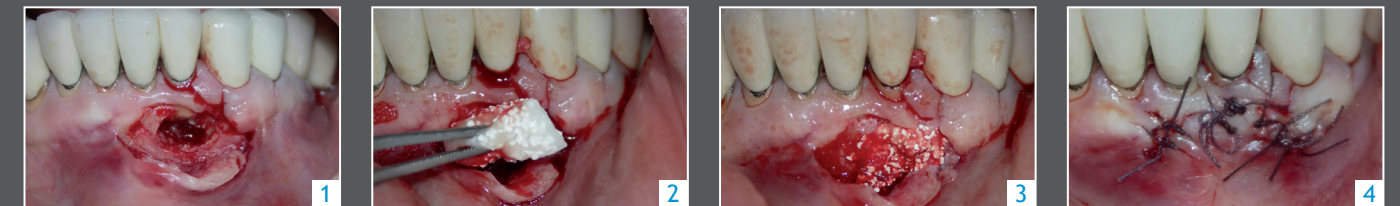
Peri-implant filling *

MATRI™ BONE can be used in ridge widening (1). MATRI™ BONE is placed in the ridge widening region (2). The Kontakt® implant is then placed into the MATRI™ BONE graft region (3). Tissue healing is already visible after 5 months (4).



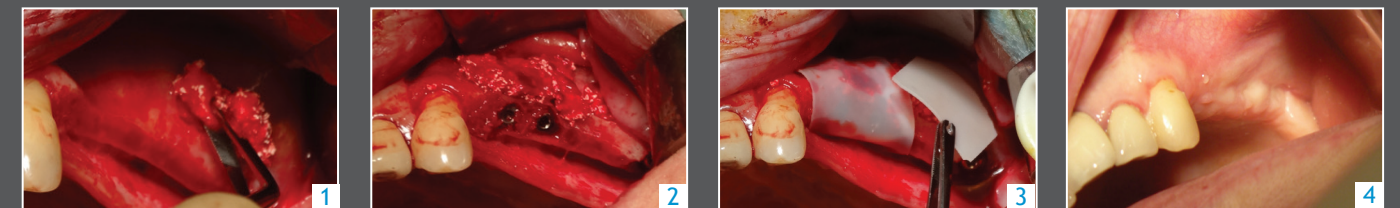
Apical resection *

The bone cyst is approached from the apical zone (1). MATRI™ BONE is placed in the cleaned cavity (2) (3) and fills the defect caused by the removal of the cyst. Closure of the wound (4).



Sinus lifting and lateral augmentation of crestal bone **

Combined use of MATRI™ BONE with COVA™ MAX. MATRI™ BONE placement and filling into the sinus cavity, after hydration in the patient's blood (1). MATRI™ BONE is placed to coat the osteotomy incision and to fill expanded region (2). COVA™ MAX are placed: one to cover the bone window and the other to protect the expanded region (3). Results after 3 weeks (4).



* Dr R. FROMENTAL, Lyon 2011 / ** Dr Y. GALLERAS, Pau

References:

- 1) Fromental R. Notion de « Rempart bioactif » péri-implantaire, intérêt du Matri™ BONE, matériau de substitution osseuse. A propos de deux cas cliniques. Implantologie. 2010. 45-53.
- 2) Roche J.L. Comblement sinusien: A propos d'un cas clinique utilisant une nouvelle préparation de phosphate tricalcique (β-TCP), hydroxyapatite (HA)/ Collagène; le Matri™ BONE. Clin. 2011; 32: 537-542
- 3) Anton M, Dougnac-Galant D. Augmentation osseuse et implantologie basale. A propos d'un matériau de comblement: le Matri™ BONE. Implantologie. Février 2012.55-67.