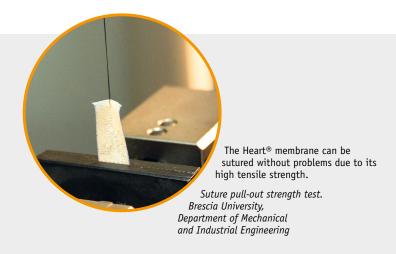
BIOTECK®



The perfect **balance** between **Nature** and **Biotechnology**

BIOTECK°

Heart® pericardium membrane



Heart® is an equine origin pericardium membrane treated with **Zymo-Teck**®, the exclusive deantigenation process based on the use lytic enzymes. The particularly long protection time (3-4 months), the high adhesiveness to tissues and excellent tensile strength are the result of maintaining the three-dimensional structure and the links between the collagen fibres of the native tissue. These features make **Heart**® the ideal solution for the largest number of surgical applications.

Heart® is used in regenerative medicine, in Oral and Maxillofacial Surgery, Orthopedics and Neurosurgery.



Features

- > **slowly** resorbable
- > resistant and elastic
- > durable barrier effect
- > practical and easy to handle
- > easily **suturable**

Protection time: 3-4 months



Codes

HRT-003n	Pericardium Membrane	1 membrane	15 x 20 x 0.2 mm
HRT-005n	Pericardium Membrane	1 membrane	20 x 20 x 0.2 mm
HRT-001	Pericardium Membrane	1 membrane	30 x 25 x 0.2 mm
HRT-002	Pericardium Membrane	1 membrane	50 x 30 x 0.2 mm

Process Zymo-Teck[®]: the secret of the **quality** of **grafts** and **membranes**

Bioteck®, a leader in the production of tissue substitutes of natural origin, has developed the exclusive deantigenation **Zymo-Teck**® process.

The **Zymo-Teck®** process, unlike other processes based on high temperature treatments or using chemical solvents, uses enzymes, natural proteins able to precisely and selectively remove the various unwanted substances, making the tissues completely bio-compatible and devoid of treatment residues.

Zymo-Teck® also preserves useful molecules, such as collagen in its natural structure and, operating at controlled temperatures, does not alter the structural characteristics of the tissues.

The stringent in-line quality controls implemented by **Bioteck®** at all stages of processing guarantee the highest quality of grafts: to obtain the best surgical outcome.

The **Heart**® membrane observed under the scanning electronic microscope (SEM) has a multilayer, compact appearance, characterised by a close-knit weave of collagen fibres.

Zymo-Teck®

Padua University, Biology Department, Electronic Microscopy Service. Improve your knowledge about the **Zymo-Teck**® process by selecting the QR-Code on the right.



Surgical application



Fixation with osteosynthesis screw of a mandibular ramus graft on atrophic mandibular crest. Notice how the back of the graft is not in contact with the recipient site.

Courtesy of Dr. D. A. Di Stefano, Milan, Italy



The space between the two cortical surfaces is filled with bone granules.



Coverage of the grafted site with the Heart® pericardium membrane (HRT-002).



Reopening of the regenerated site 5 months after surgery. The osteosynthesis screw highlights the graft positioning point; note the excellent integration between it and the recipient site.



Implant insertion in position 1.1. The socket appears devoid of vestibular wall and requires a guided bone regeneration intervention.



The defect is filled with bone granules.



Coverage of the grafted site with the Heart® pericardium membrane (HRT-001).



Soft tissue healing 7 months after surgery and radiographic image of the regenerated site. Note the excellent level of the papilla and the maintenance of the underlying bone volumes.

BiOTECK*



BIOTECK®. INNOVATING BIOMATERIALS.

Bioteck® is an Italian company that has been producing bone substitutes, protective membranes and regenerative solutions successfully used in orthopaedics, neurosurgery and oro-maxillo facial surgery since 1995. Scientific research and innovation are the guiding principles that have enabled Bioteck® to patent new production processes and to create unique biomaterials of high quality in terms of performance level and safety guarantees. Materials now used in 72 countries worldwide.

At its multi-functional centre for research and development and thanks to state-of-the-art production processes, every day Bioteck® works to pursue its key objective: to innovate biomaterials.

WWW.BIOTECK.COM





BIOTECK ACADEMY. SCIENTIFIC COMMUNITY FOR THE CULTURE OF THE CONSCIOUS CHOICE.

Bioteck Academy is the innovative and unique scientific community which promotes the circulation and sharing of knowledge in the field of tissue regeneration applied to dentistry, maxillo-facial surgery, orthopaedics and neurosurgery.

Established as a hub for the clinical and scientific expertise focussed on by Bioteck® spanning twenty years of research, today it is an entity open to all professionals who decide to join and share their own surgical experience.

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Heart is distribuited by: