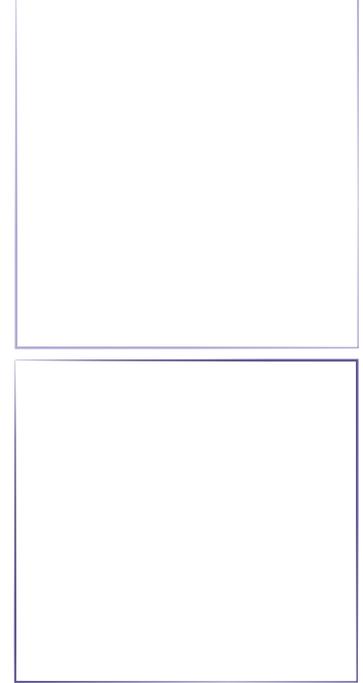


mis<sup>®</sup>  
4BO/e<sup>™</sup>  
RCM

Resorbable  
Collagen  
Membrane





## **MIS Bone Grafting Solutions.**

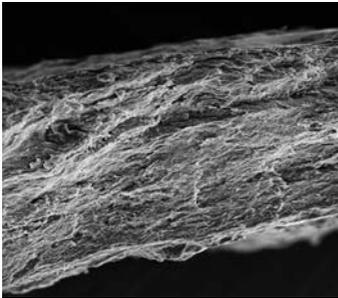
MIS offers a variety of advanced bone and tissue regeneration products aimed at a wide variety of clinical conditions and surgical requirements. All products in this category are packed in varying weights and volumes and in user-friendly containers and utensils, allowing practitioners to choose the precise quantity required for each procedure.

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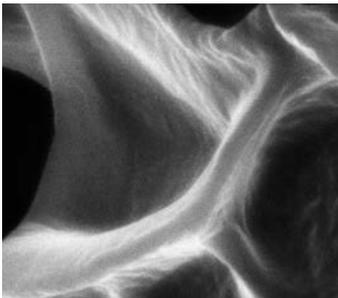
6.

## Product Description.

4BONE RCM is a resorbable dental membrane made from porcine skin-sourced collagen, aimed for guided bone and tissue regeneration (GBR and GTR). Due to its substantially proven biocompatibility and low immunogenicity, porcine collagen has been successfully used in a variety of medical and dental procedures for many years. 4BONE RCM production involves a cross-linkage technique, enabling functionality as an efficient barrier for a 4-6 months period.



Microporosity 100 $\mu$ m



Microporosity <5 $\mu$ m

### Purified collagen properties

Purified skin-sourced collagen ■ Collagen types I and III ■ Preservation of the fibrous structure (supporting mechanical strength)

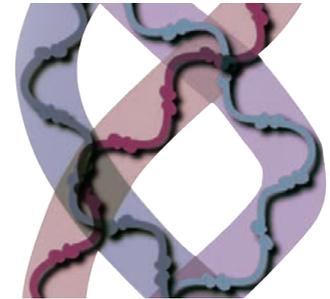
### Cross-linkage production technique

A bath in a cross-linking reagent ■ Prolonged resorption time  
■ Neutralization: elimination of the residual cross-linker ■ Chemical analysis of residual reagent

Resorption Control

## Unique Cross-Linkage Technique.

The controlled process of collagen cross-linking allows sufficient time for bone regeneration and rehabilitation of osseous defects. The collagen cross-linking is directly controlled to assure the material's ideal longevity and degradation profile. Verified by animal testing, the degradation of 4BONE RCM membranes is perfectly consistent.



Cross-linkage



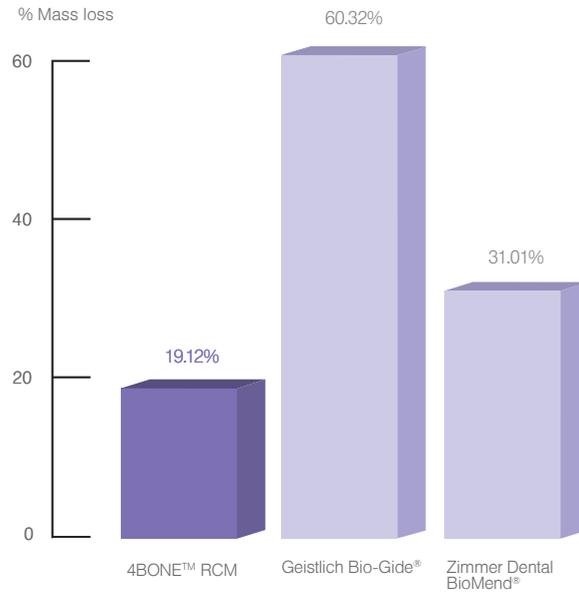
Collagen structure

8.

## In-Vitro Resorption Control.

The following comparison demonstrates the rate of mass loss after 48 hours of in-vitro degradation in different types of membranes.

Averages loss of mass



## Advantages.

The 4BONE RCM membrane is the result of extensive research and development, aiming at a functional barrier that remains intact for a specific period of time.

### Efficient

Allowing sufficient time for osseous defects to achieve optimal regeneration, 4BONE RCM barrier enables successful application for various indications.



### Easy handling

Easy to handle, cut to size, shape and apply. Easy to place, with no need for sutures or pins. Flexible and adaptable to various bone topographies.



### Safe

The porcine source ensures an improved sanitary safety and a complete and validated traceability.



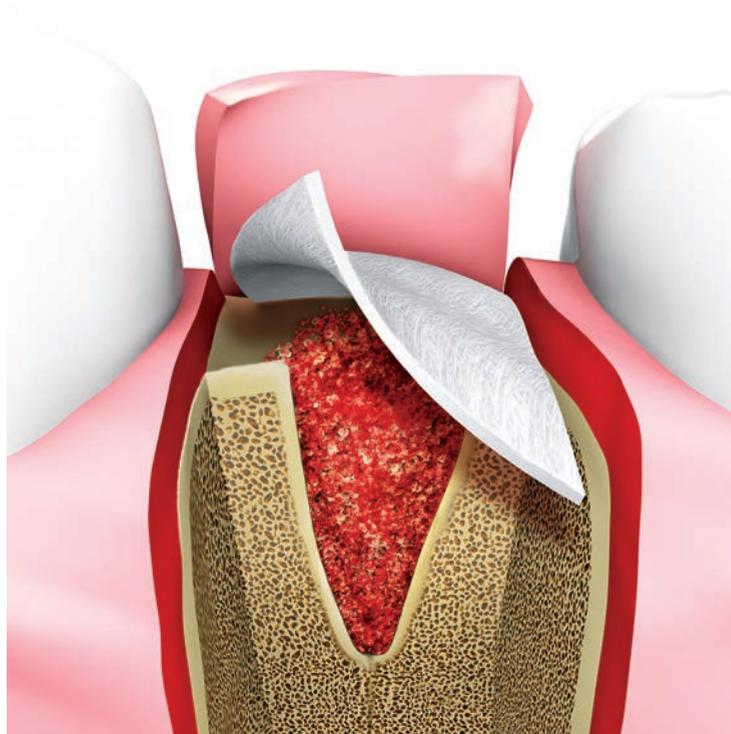
### Architectural bone remodeling

The 4BONE RCM microstructure and macrostructure represents a dynamic process, including physico-chemical processes, crystal/protein interactions, cell and tissue colonization and bone remodeling.



## 4BONE RCM Indications.

4BONE RCM is a bioabsorbable membrane. It is intended for use in periodontal/dental surgery procedures, for placement in areas of periodontal defect, dental implant, bone defect or ridge reconstruction; to support wound healing post surgery. It is recommended for use with a bone graft material to promote new bone healing.



Tissue preservation is essential for efficient primary closure of the wound and for the correct positioning of the flaps.

## Packaging.

4BONE RCM packaging is designed to ensure sterility. The external layer of the double pouch should be carefully opened and the inner pouch placed onto a sterile field. The membrane should be removed from the inner pouch using sterile gloves or instruments.



4BONE RCM is available in three sizes:

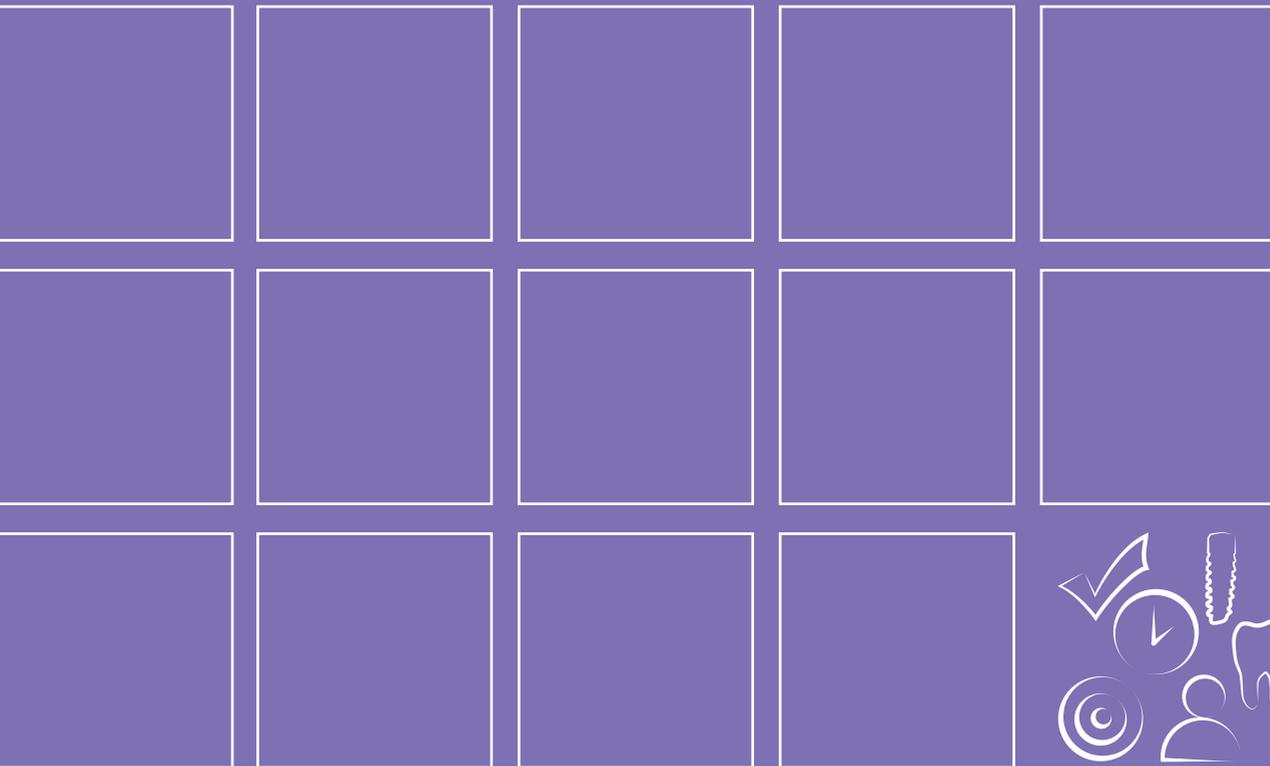
BR-C1525 - 15x25x0.3mm

BR-C2030 - 20x30x0.3mm

BR-C3040 - 30x40x0.3mm









[www.mis-implants.com](http://www.mis-implants.com)

MIS Quality System complies with international quality standards: ISO 13485:2003 - Quality Management System for Medical Devices, ISO 9001: 2008 - Quality Management System and CE Directive for Medical Devices 93/42/EEC. MIS products are cleared for marketing in the USA and CE approved.