BioVin® Collagen Membrane
Resorbable cross-linked collagen membrane

BioVin® Bovine Bone
Bovine Bone Substitute

OToss Synthetic Bone
Synthetic Resorbable Biphasic Calcium Phosphate

OToss Synthetic Bone Inject
Microporous Resorbable Biphasic Calcium Phosphate
BioVin® Collagen Membrane

BIORESORBABLE COLLAGEN MEMBRANE

Controlled resorption
BioVin® Collagen Membrane is a cross-linked collagen membrane which is indicated for controlled tissue regeneration in periodontal defects. The resorbable membrane provides reliable protection against the adverse effects of bone regeneration and provides support to the healing process of soft tissue through its natural structure.

Biocompatible and safe
The membrane is made of porcine collagen type I and type III with standardized purification process. BioVin® Collagen Membrane is obtained by controlled manufacturing processes and international recognized standards for excellent biocompatibility. The collagen is extracted from veterinary certified pigs skin.

Easy to use
The biocompatible BioVin® Collagen Membrane is characterized by an easy and safe handling procedure: It can be cut and shaped, it is flexible and also stable and adapts perfectly to defects.

SEM of membrane

SEM of membrane
BioVin® Collagen Membrane

PROPERTIES

• Suppleness and flexibility
• Easy to use (cut to size and moldable)
• High stability and tear resistance by cross-linking
• Cell occlusive
• Excellent adhesion
• Long-lasting barrier function

INDICATIONS

The BioVin® Collagen Membrane can be used in a variety of indications:

Implantology, periodontology, oral surgery, maxilla-facial surgery

• Sinus lift
• Horizontal augmentation
• Ridge augmentation
• Alveolar ridge reconstruction
• Fenestration defects
• Dehiscence

PRODUCT INFORMATION

The BioVin® Collagen Membrane is available in following sizes:

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Size</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-9159252010</td>
<td>15 x 25 mm</td>
<td>1 Membrane</td>
</tr>
<tr>
<td>05-9209302010</td>
<td>20 x 30 mm</td>
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</tr>
<tr>
<td>05-9309402010</td>
<td>30 x 40 mm</td>
<td>1 Membrane</td>
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</table>

Manufacturer: Biomatlante, ZA Les Quatre Nations, 5 Rue Edouard Belin, 44360 Vigneux de Bretagne, France
BioVin® Bovine Bone

**BOVINE BONE SUBSTITUTE MATERIAL**

BioVin® Bovine Bone is a highly bioactive bone replacement material consisting of a natural mineral matrix of bovine origin and an additional bioactive microcoating with resorbable polymers and porcine derived collagen fragments.

Resorbable polymers improve the mechanical properties of hydroxyapatite: in the first few months after the material has been introduced into the defect, they provide protection against resorption and thus ensure optimum volume stability. Porcine derived collagen fragments promote cell adhesion.

The composition of BioVin® Bovine Bone guarantees biomechanical properties and promotes the osteogenic process for an optimal and fast osseointegration.

With respect to its interconnecting porosity, BioVin® Bovine Bone mimics the structure of human bone and thus promotes rapid revascularization.

Furthermore, the microstructure ensures a high hydrophilicity of the bone substitute material, which has a positive effect on the osseointegration.

Due to its unique manufacturing process, BioVin® Bovine Bone offers high volume stability and builds the optimal matrix for newly forming bones and vessels.
BioVin® Bovine Bone

**Properties**
- High hydrophilicity
- Interconnecting pore system ensures fast revascularization
- Long-Term Volume Stability
- Micro & Macro Porosity
- Very good tissue integration
- Completely degradable
- Mimicking autologous bone

**Indications**
BioVin® Bovine Bone can be used in a variety of indications:
- Regeneration of periodontal bone defects
- Regeneration of extraction alveoli
- Regeneration of cavities between the alveolar wall and immediate implants
- Horizontal alveolar ridge augmentation
- Sinus lift floor elevation
- Alveolar ridge augmentation at implant sites with sufficient residual bone and a good blood supply

**Important**
- The product must not be moistened in saline solution. Use patient's blood only.
- The product is a single use medical device. Improper reuse of the device carries a very high risk of infection and/or incorrect tissue regeneration and it is a violation of the IFU!

**Product Information**
The bone substitution material BioVin® Bovine Bone is available in the following sizes and volumes:

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Granule size</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-9059051030</td>
<td>0.25 - 1.0 mm</td>
<td>0.25 g (± 0.54 ml)</td>
</tr>
<tr>
<td>05-9059101030</td>
<td>0.25 - 1.0 mm</td>
<td>0.50 g (± 1.08 ml)</td>
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<td>05-9109101030</td>
<td>1.0 - 2.0 mm</td>
<td>0.50 g (± 2.00 ml)</td>
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</tbody>
</table>

Manufacturer: Industrie Biomediche Insubri SA, Via Cantonale 67, 6805 Mezzovico-Vira/Switzerland
**SYNTETHIC BONE SUBSTITUTE**

OToss Synthetic Bone synthetic bone substitute material consisting of 80% beta-Tricalcium Phosphate (ß-TCP) and 20% Hydroxyapatite (HA).

The optimal balance of a stable component (HA) and a more bioactive and resorbable component (ß-TCP) in connection to porosity, provides a controlled process for ceramic resorption and bone substitution.

The unique manufacturing process of OToss Synthetic Bone offers an interconnecting porous structure which builds the basis for optimal angiogenesis and osteoconduction.

**PROPERTIES**

- 80% ß-TCP, 20% HA
- Interconnected porosity
- Micro- & macro pores
- Osteoconduction
- Controlled resorption
- 30 years of clinical experience

**INDICATIONS**

OToss Synthetic Bone can be used in variety of indications:

- Periodontal/Bone defects
- Sinus lift
- Extraction sockets
- Alveolar ridge augmentations
- Filling of cystic cavities

**PRODUCT INFORMATION**

The bone substitution material OToss Synthetic Bone is available in following sizes and volumes:

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Granule size</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-9059051020</td>
<td>0.5 - 1.0 mm</td>
<td>0.5 ml</td>
</tr>
<tr>
<td>05-9059101020</td>
<td>0.5 - 1.0 mm</td>
<td>1.0 ml</td>
</tr>
</tbody>
</table>

Manufacturer: Biomatlante, ZA Les Quatre Nations, 5 Rue Edouard Belin, 44360 Vigneux de Bretagne, France
OToss Synthetic Bone Inject

SYNTHETIC BONE SUBSTITUTE

OToss Synthetic Bone Inject is a new, synthetic bone substitute material. The micro-pores, moldable Calcium Phosphate paste consists of 60% Hydroxyapatite (HA) and 40% beta-Tricalcium Phosphate (ß-TCP) as well as a hydrogel which acts as the soluble carrier.

The resorbable bone graft substitute is supplied sterile in a syringe and can be applied directly into the bone defect, where it fits perfectly into the defect geometry.

The material remains stable in volume and ensures a controlled process of ceramic resorption and bone substitution.

PROPERTIES

- 40% ß-TCP, 60% HA
- Moldable
- High volume stability
- Interconnected porosity
- Osteoconduction
- Controlled resorption

INDICATIONS

OToss Synthetic Bone Inject can be used in various indications:

- Sinus lift
- Extraction sockets
- Periodontal/Bone defects
- Ridge augmentation
- Filling of cystic cavities

PRODUCT INFORMATION

The bone substitution material OToss Synthetic Bone Inject is available in the following sizes and volumes:

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Granule size</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-9059053010</td>
<td>0.5 - 1.0 mm</td>
<td>0.5 ml</td>
</tr>
</tbody>
</table>

Manufacturer: Biomatlanse, ZA Les Quatre Nations, 5 Rue Edouard Belin, 44360 Vigneux de Bretagne, France