Biomatlante Bone Graft Line

**KEY FEATURES**

- Osteoconductive: Provides a matrix for new bone growth
- Molecular mixture of HA and TCP: HA alone needs to go stony while TCP needs to go fast. Bi-Phase HA and TCP allow for a resorption rate similar to that of human bone
- 70% porosity, interconnected network of macropores and micropores: Porosity similar to cancellous bone enables the colonization of bone cells and biological fluid uniformly within the matrix
- Micropores are the intercrystalline spaces: For ionic exchange: TCP dissolution and bony crystal precipitation. Newly bioactive interface with bone cells
- High specific surface area (SSA): 70% porosity, interconnected network of macropores and micropores
- Safe: 100% synthetic, 5 years shelf life

**KEY BENEFITS**

- **100% Permeability**
- **Macroporosity (>10 microns)**: Allows deep invasion of bone cells inside the matrix
- **Micropores (<10 microns)**: For ionic exchange: TCP dissolution and bony crystal precipitation. Newly bioactive interface with bone cells
- **<2mm 100% Permeability**
- **Micropores and Macropores**: Macropores are a network of interconnected spaces that promote the biological infiltration of macropores and micropores

**High specific area for maximum permeability**

**Macropores and Micropores**

- Macropores are a network of interconnected spaces that promote the biological infiltration of macropores and micropores

**Diffuse bone healing**

- Promotes bone healing with gradual resorption and replacement by natural bone
- Stimulates the osteoblastic response: proliferation and differentiation

**MBCP™ Technology**

- 100% synthetic, cost-effective bone graft matrix used as an alternative to biologic osteoinductive products (autograft, allograft)
- MBCP™ Technology is a 3D interconnected matrix that mimics the trabecular architecture and the thin crystalline structure of natural bone.
- Bioactive matrix for bone healing:
  - Promotes bone healing with gradual resorption and replacement by natural bone
  - Stimulates the osteoblastic response: proliferation and differentiation
- MBCP™ technology, synthetic worldwide reference:
  - >50 years of clinical experience
  - Concept surgically approved in orthopaedic, spine and maxillofacial surgeries
  - The matrix of choice for bone tissue engineering in complex bone reconstruction

**MBCP™ Technology**

- Over 650 publications demonstrate:
  - Excellent safety and efficacy profiles
  - Low morbidity
  - Price sensitive
- Supplied by leading world manufacturers:
  - Easy to use and safe
  - Excellent long-term outcomes

**In’Oss™ - MBCP™ Putty**

- Ready to use
- Moldable
- Volume Stability

**MBCP™ Granules**

- Over 650 publications demonstrate:
  - Excellent safety and efficacy profiles
  - Low morbidity
  - Price sensitive

**MBCP™ Wedges**

- Supplied by leading world manufacturers
- Easy to use and safe
- Excellent long-term outcomes

**Volume Stability**

<table>
<thead>
<tr>
<th>Size</th>
<th>Vial</th>
<th>Reconstitution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2cc</td>
<td>5-10cc</td>
<td>High Tibial Osteotomy</td>
</tr>
<tr>
<td>2-3cc</td>
<td>1-2mm</td>
<td>Hip Revision</td>
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<tr>
<td>3-4cc</td>
<td>1-2mm</td>
<td>Fractures</td>
</tr>
<tr>
<td>4-5cc</td>
<td>1-2mm</td>
<td>Autograft Extender</td>
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</tbody>
</table>

**Data on files. Biomatlante**

*Not for sale in the USA*
Micro Macroporous Synthetic Bone Graft

**MBCP™ Solid Cage Inserts**
- Cervical: Lumbar
- Sterile: Non Sterile

**MBCP™ Granules**
- Over 650 publications demonstrate:
  - Excellent safety and efficacy profiles
  - Low morbidity
  - Price sensitive

**MBCP™ Sticks**
- Supplied by leading world manufacturers
- Easy to use and safe
- Excellent long-term outcomes

**MBCP™ Syringe**
- Ready to mix with biological fluids and other active agents:
  - Blood
  - Bone marrow
- Syringe volumes: 0.5mL, 1mL, 3mL, 6mL, 14mL

**Ins’Oss™ - MBCP™ Putty**
- Ready to use
- Moldable
- Volume stability

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**Osteotwin™ Design**
- Graduated tapered design to optimize torque
- Different threads and heads depending on screw length
- Non-aggressive thread to protect the ligament
- Screw tip tailored to assist insertion into the bone tunnel
- Abrasive thread for optimal contact

**Osteotwin™ Composite**
- Regulated resorption and osteointegration to form architectural bone
- Proven osteoconductive material
- Ceramic-buffer effect: βTCP, αTCP

**Osteotwin™ Polyactic**
- Proven polymer to best manage degradation and mechanical strength retention
- Greater mechanical resistance
- Crystalinity removed to increase resorption

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**Osteotwin™ - Intruments**
- Torx screwdriver
- Nitinol guide wires
- Tunnel dilators 07/08 & 09/10
- Starter taps

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**Biomatlante**
5 rue Edouard Belin
Z.A. Les Quatre Nations
44360 Vigneux de Bretagne
France
+33 (0)2 28 02 00 09
contact@biomatlane.com
www.biomatlane.com

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**Intervertebral Fusion**
- Cervical
- Lumbar

**Posterolateral Fusion**
- Posteriorlateral Fusion

*Not for sale in the USA, *Composite:  • • • • • • • • • • • Polyactic:  • • • • • • • • • • •