INDICATIONS FOR USE

ALTAPORE® is an implant intended to fill bony voids or gaps of the skeletal system (i.e., extremities, pelvis and posterolateral spine) and may be used with autograft as a bone graft extender or bone marrow aspirate. These osseous defects are surgically created or the result of traumatic injury to the bone and are not intrinsic to the stability of the bony structure. ALTAPORE® resorbs and is replaced with bone during the healing process.

IMPORTANT RISK INFORMATION

ALTAPORE® is contraindicated where the device is intended as structural/load-bearing support in the skeletal system. ALTAPORE® has not been cleared for use in vertebroplasty. Attempts should not be made to modify the size of the granules or to change their shape. It is important to maximize contact between existing bone and the implant to ensure proper bone regeneration. The effect of mixing ALTAPORE® Bioactive Bone Graft with substances other than bone marrow aspirate or autologous bone is unknown.

Rx Only.

For safe and proper use please refer to full device Instructions for Use for Contraindications, Warnings, and Precautions.

References:

1. ALTAPORE® Bioactive Bone Graft Instructions for Use.
4. ALTAPORE® 510(k)

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USMP/MG99/16-0001(1)   8/2018

For more information, contact your local sales representative or call 1-888-229-0001

Product Name  Product Size  Order Code
1.5 mL  1504319
2.5 mL  1504320
5 mL  1504321
10 mL  1504322
20 mL  1504323

Micro-granule Characteristics:

ALTAPORE® contains microgranules, sized 1–2 mm, with 80-85% macro porosity and 31-47% micro porosity, suspended in an absorbable aqueous gel carrier. ALTAPORE® contains 0.8% silicon by weight, which in preclinical studies was shown to be optimal for bone formation.

Enhance Bone Growth

*Preclinical data. Results may not correlate to performance in humans.
Iliac crest autograft is the commonly utilized “gold standard” graft material in spine surgical techniques. In a pre-clinical posterolateral fusion model, ALTAPORE exhibited similar fusion rates to autograft. Fusion rates were established by manual palpation.

### Enhanced Performance
ALTAPORE as a standalone bone graft is designed to serve as a standalone bone graft substitute or as an autograft extender. Non-invasive bone loss can be combined with autologous bone available for use in conjunction with ALTAPORE. This allows for the optimization of outcomes in a variety of surgical situations.

The precise handling characteristics of ALTAPORE allow the putty to be molded into various shapes to adapt to the desired surgical needs. Draped in a sterile surgical drape, the putty can be molded into a variety of shapes to adapt to the desired surgical needs. Draped in a sterile surgical drape, the putty can be molded into a variety of shapes to adapt to the desired surgical needs.

ALTAPORE is contraindicated where the device is intended as structural support in the skeletal system. Please see Indication and Important Risk Information at the back of this brochure.

*Preclinical data. Results may not correlate to performance in humans.

Versatility and Ease of Use
ALTAPORE is a bioactive bone graft designed to serve as a standalone bone graft substitute or as an autograft extender. Non-invasive bone loss can be combined with autologous bone available for use in conjunction with ALTAPORE. This allows for the optimization of outcomes in a variety of surgical situations.

Fusion rates were established by manual palpation of the treated segment by three blinded, independent reviewers. “Fusion” was determined if no motion was detected in flexion or extension. At 8 and 12 weeks, Si-CaP EP, ICBG+Si-CaP EP, and Si-CaP EP+BMA exhibited comparable fusion rates to ICBG.

Introducing the Next Generation
Silicate Substituted Bone Graft Substitute
ALTAPORE is a bioactive and osteoconductive silicate substituted calcium phosphate bone void filler. ALTAPORE contains microgranules, sized 1–2 mm, with 80-85% macro porosity and 32-46% micro porosity, suspended in an absorbable aqueous gel carrier. The interconnected and open porous structure of the silicate-substituted calcium phosphate phase of ALTAPORE is similar to human cancellous bone and is designed to promote enhanced bone growth.

Optimized Porosity to Enhance Bone Growth
ALTAPORE Bioactive Bone Graft provides for an increased surface area and topography, which facilitate the increased proliferation and differentiation of osteoblasts along the surface of the putty and promote increased new bone formation.

Earlier Vascularization
The enhanced porosity of ALTAPORE Bioactive Bone Graft promotes early vascularization, which plays a central role in the bone formation process by providing oxygen, nutrients, and growth factors indispensable for appropriate bone development.

Enhanced Cellular Activity
The enhanced macro and micro porosity of ALTAPORE Bioactive Bone Graft provides for an increased surface area and topography, which facilitate the increased proliferation and differentiation of osteoblasts along the surface of the putty and promote increased new bone formation.
Introducing the Next Generation Silicate-Substituted Bone Graft Substitute

**ALTAPORE** is a bioactive and osteoconductive silicate-substituted calcium phosphate bone void filler that promotes bone healing and regeneration. It is composed of microgranules, sized 1–2 mm, with 80-85% macro porosity and 32-46% micro porosity, suspended in an absorbable aqueous gel carrier. The interconnected and open porous structure of the silicate-substituted calcium phosphate phase of **ALTAPORE** is similar to human cancellous bone and is designed to promote enhanced bone growth.

**Optimized Porosity to Enhance Bone Growth**

**Earlier Vascularization**

The enhanced porosity of **ALTAPORE** promotes early vascularization, which plays a central role in the bone healing process by providing oxygen, nutrients, and growth factors indispensable for appropriate bone development.

**Enhanced Cellular Activity**

The enhanced macro and micro porosity of **ALTAPORE** provides a large surface area and topography, which facilitate the increased proliferation and differentiation of osteoblasts along the surface of the graft and promote increased new bone formation.

**Versatility and Ease of Use**

**ALTAPORE** can be used as a standalone bone graft substitute or as an autograft extender. While most surgeons use it as an autograft extender, it can be combined with autologous bone (autograft) or bone marrow aspirate (BMA) to provide the bioactive and osteoconductive matrix with osteogenic factors.

Fusion rates were established by manual palpation of the treated segment by three blinded, independent reviewers. "Fusion" was determined if no motion was detected in flexion or extension. At 8 and 12 weeks, Si-CaP EP, ICBG+Si-CaP EP, and Si-CaP EP+BMA exhibited comparable fusion rates to ICBG.

**ALTAPORE** is contraindicated where the device is intended as structural support in the skeletal system. Please see Indication and Important Risk Information at the back of this brochure.
Iliac crest autograft is the commonly utilized “gold standard” graft material in spine surgical techniques. In a pre-clinical posterolateral fusion model, ALTAPORE exhibited similar fusion rates to autograft. Fusion rates were established by manual palpation. 

### Versatility and Ease of Use

ALTAPORE as a standalone bone graft substitute is an osteoconductive bone graft substitute. Sensible results were seen in compared with autograft and bone marrow aspirate (BMA). This resulted from ALTAPORE's unique structure and composition.

The precise handling characteristics of ALTAPORE allow the putty to be molded into any shape to adapt to various needs, designed to instill confidence while handling when using as standalone, with autograft, or BMA.

### Enhanced Performance

ALTAPORE as a standalone bone graft substitute is an osteoconductive bone graft substitute. Sensible results were seen in compared with autograft and bone marrow aspirate (BMA). This resulted from ALTAPORE's unique structure and composition.

The precise handling characteristics of ALTAPORE allow the putty to be molded into any shape to adapt to various needs, designed to instill confidence while handling when using as standalone, with autograft, or BMA.

### Optimization for Use

- ALTAPORE is contraindicated where the device is intended as structural support in the skeletal system.
- Please see Indication and Important Risk Information at the back of this brochure.

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INDICATIONS FOR USE

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References:
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Product Name | Product Size | Order Code
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1.5 mL | 1504319
2.5 mL | 1504320
5 mL | 1504321
10 mL | 1504322
20 mL | 1504323

*In vitro studies show elevated cellular responses when compared to an identical non silicate-substituted material.

Micro-granule Characteristics:
ALTAPORE contains microgranules, sized 1–2 mm, with 80-85% macro porosity and 31-47% micro porosity, suspended in an absorbable aqueous gel carrier.

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