



VESUVIUS®
DEMINERALIZED FIBERS



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DEMINERALIZED FIBERS OSTEOBIOLOGIC SYSTEM



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VESUVIUS® Demineralized Fibers, processed by LifeNet Health®, are an innovative addition to the Demineralized Bone Matrix (DBM) market segment. Using LifeNet Health's proprietary and patented PAD® demineralization process, VESUVIUS fibers' porosity, surface area, and structure are designed to enhance osteoinductive potential by maximizing exposure of growth factors.

IMPLANT FEATURES & BENEFITS

Osteoconductive: Scaffold engineered for cellular attachment & proliferation

Osteoinductive Potential: Contains exposed natural growth factors & retains its inherent osteoinductive potential

Osteogenic: When combined with bioactive fluid, such as bone-marrow aspirate, an osteogenic potential is added to the construct due to the introduction of autogenic osteoprogenitor cells and growth factors



VESUVIUS Demineralized Fibers

AVAILABLE SIZES

- 2 cc
4104-K0002DF
- 5 cc
4104-K0005DF
- 15 cc
4104-K0015DF
- 30 cc
4104-K0030DF



- Proprietary Mix of Demineralized Cortical Fibers & Mineralized Cancellous Chips

- Engineered Specifically for Desired Porosity, Surface Area, & Structure

- Contains No Carrier or Fillers & Comprises 100% Tissue

- Allows for Customizable Hydrating Options to Fit Surgeon's Needs, Including Platelet Rich Plasma, Bone Marrow Aspirate, Whole Blood, Saline, or Antibiotic Solution

- Processed by LifeNet Health, a Leading Allograft Bio-Implant & Regenerative Medicine Company



- Patented & proprietary cleaning & sterilization process
- Removes greater than 99% of marrow & blood elements*
- Renders bio-implant sterile without compromising the biomechanical or biochemical properties needed for intended applications*
- Serological testing meets industry standards & utilizes latest lab techniques

A patented & proprietary demineralization process that provides:

- A targeted level of residual calcium levels of 1-4%¹⁻⁵
- Maximized exposure of growth factors
- Excellent osteoinductive potential

¹Zhang M, Powers RM Jr, Wolfenbarger L Jr. *J Periodontol.* 1997. Nov; 68(11):1085-92.
²Turonis JW, McPherson JC 3rd, Cuenin MF, et al. *J Oral Implantol.* 2006. 32(2):55-62.
³Herald RW, Pashley DH, Cuenin MF, et al. *J Periodontol.* 2002. Feb;73(2):213-9.
⁴Mott DA, Mailhot J, Cuenin MF, et al. *J Oral Implantol.* 2002. 28(2):57-66.
⁵Pietrzak WS, Ali SN, Chitturi D, et al. *Cell Tissue Bank.* 2011. May;12(2):81-8.

*Data on file at LifeNet Health, Virginia Beach, Va.



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