OraGRAFT® Prime

Demineralized Moldable Fibers

Optimized Handling.
Uncompromised Performance.

LifeNet Health®
Saving Lives. Restoring Health. Giving Hope.

The OraGRAFT Prime Advantage

✓ OPTIMIZED HANDLING

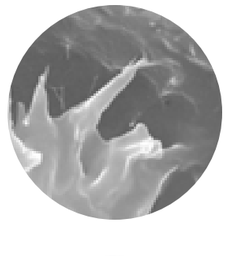
OraGraft Prime Demineralized Moldable Fibers were developed specifically for procedures where there is a need for a bone grafting material that has osteoinductive potential and can be easily formed to fit the defect.

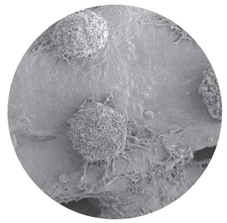
Feature	Benefit
Hydrates quickly	Saves chair time
Moldable	Conforms and stays contained in the surgical site

✓ HOSPITABLE SCAFFOLD

The cortical fibers that make up OraGraft Prime create a hospitable scaffold.

Feature	Benefit
Long cortical fibers with multiple protrusions and a rough surface	Provides a large surface area and many contact points for cellular attachment and proliferation [1]
Interconnected cortical fibers	Allows cells to easily spread out and make connections with each other[1]
Favorable porosity and pore size[2-12]	Promotes cellular attachment and proliferation
Lot Tested with Nude Mouse Assay	Confirmation that final product has osteoinductive potential

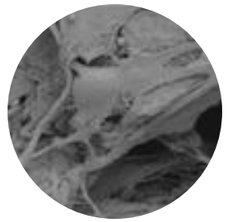




✓ 100% BONE, NO CARRIER

OraGraft Prime is comprised of 100% natural human bone. The graft has been demineralized using PAD® technology to encourage natural remodeling during the bone healing process.

Feature	Benefit
Optimally demineralized using PAD technology	Optimal osteoinductive potential[13-17]
No carrier	100% bone content, no dilution of osteoinductive potential[1,18]
Natural human bone	Facilitates natural remodeling during the bone healing process



✓ MEDICAL DEVICE-GRADE STERILITY

OraGraft Prime is sterilized using proprietary and patented technology, which provides a medical device-grade Sterility Assurance Level (SAL) 10^{-6} without compromising the biochemical or biomechanical properties of the graft.

Feature	Benefit
Processed per AATB standards	Minimizes contamination
Irradiated in a manner that maintains osteoinductive potential and osteoconductivity of Demineralized Bone Matrix (DBM)[19-20]	Maintains osteoinductive potential
Sterile with a Sterility Assurance Level (SAL) of 10^{-6}	Meets ASTM standard for an implantable medical device. Reduces risk to patients

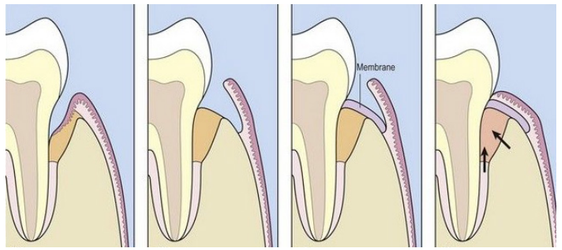
✓ OPTIMALLY DEMINERALIZED

Feature	Benefit
Every lot tested for osteoinductive potential as a final product	Confirms that processing has not disrupted the osteoinductive potential of the graft

✓ CLINICAL APPLICATIONS

OraGraft Prime can be used in a variety of dental bone grafting procedures as per the dentist's preference and clinical judgement; such as socket preservation, ridge augmentation or as a graft enhancer in a sinus lift. One application where a DBM like OraGraft Prime is a preferred option is for the treatment of periodontal osseus defects particularly for saving natural teeth.

Why tooth salvage?



Lallier in 2001 showed that human bone is superior to xenograft or synthetic material for PDLF cell attachment:[25]

"BRG Materials are often used to treat periodontal defects, to promote cellular invasion, and to encourage bone regrowth. Periodontal Ligament Fibroblasts (PDLF) incorporate these materials and from the basis of the renewed connection between the existing and newly formed alveolar bone and the tooth surface."[25]

"Our results indicate that xenographic and synthetic BRG materials are inferior to human-derived bone (whether demineralized or non-demineralized) in promoting PDLF cell attachment."[25]

Hanes showed that periodontal ligament regeneration only occurs with autograft or demineralized freeze dried bone.[22]

"However, histologic evidence of periodontal regeneration, including new bone, periodontal ligament, and cementum, has been reported only for autogenous bone grafts and demineralized freeze dried bone allografts."[22]

OraGraft Prime fiber technology was also shown to provide a good scaffold for cell attachment.[24]

"Mesenchymal stem cells readily attached to the DBM and showed increasing metabolic activity over time. DBM fibers further increased alkaline phosphatase activity in C2C12 cells."[24]

OraGRAFT Prime

Demineralized Moldable Fibers

Order Code	Volume	Storage Temperature	Shelf Life
DF-1007	0.5 cc	10 - 37°C	4 years
DF-1008	1.0 cc	10 - 37°C	4 years
DF-1009	2.5 cc	10 - 37°C	5 years

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