

Regenerative Product Portfolio

Trusted Clinical Solutions



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Featured Products



Clinicians around the globe have counted on the Puros family of allografts for hard- and soft-tissue augmentation procedures for years. The brand's renowned reputation is based on:*

- Consistent, clinically documented and predictable processing and configuration
- Allowing for creation of healthy, solid bone¹⁻³
- Rapid, predictable turnover shown in human clinical studies⁴⁻⁷
- Natural, easy-to-use, terminally sterile options
- Quick hydration, five-year shelf life "excluding RegenaVate and Puros Putties" and storage at room temperature⁸ "excluding RegenaVate Frozen DBM".

The Proprietary Tutoplast® Process

The proprietary Tutoplast process assures the highest standard of tissue quality with minimal risk of disease transmission.⁸ That's why, for over 40 years, Tutoplast processed tissues have been used in more than five million procedures.⁸

There Is No Comparison

Zimmer Biomet Dental now offers the most comprehensive line of regenerative biologics available. This ever-expanding range of solutions provides the breadth and depth that clinicians need to complete regenerative procedures, while broadening the success of their practice.

The Benefits Of The Multi-Step Tutoplast Process For Puros Particulate Bone Graft



The process preserves the valuable minerals in bone (minerals don't apply to soft tissues), collagen matrix and tissue integrity while inactivating pathogens and gently removing unwanted materials, such as cells, antigens and viruses⁸—resulting in predictable, reliable and sterile allografts.

* Claims referenced apply to Tutoplast processed products and exclude Puros DBM.

Bone Grafts

Puros Allograft Particulates

Puros Cortico-Cancellous Particulate Allograft

Key Benefit:

Puros Cortico-Cancellous Particulate Allograft is an anatomic-based mix of 70% cortical and 30% cancellous bone particulate. Puros Cortico-Cancellous Particulate Allograft is used in procedures where space maintenance and faster remodeling⁴⁻⁵ are desired.* This mixture combines the clinical advantages of both Puros Cortical and Puros Cancellous Particulate Allograft materials.

Clinical Advantages:

- Retains osseoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, and original porosity;¹⁻⁹ enabling the ingrowth of vascular and cellular connective tissue⁷
- Provides time-saving convenience by eliminating the need to mix various graft materials
- Both cortical and cancellous particulates come from a single donor

Suggested Applications:

- Sinus lift/sinus floor elevation
- Ridge augmentation

Catalog Number	Description
68800	Puros Cortico-Cancellous Particles, 0.5 cc, 250-1000 µm
68801	Puros Cortico-Cancellous Particles, 1 cc, 250-1000 µm
68802	Puros Cortico-Cancellous Particles, 2 cc, 250-1000 µm
68803	Puros Cortico-Cancellous Particles, 0.5 cc, 1000-2000 µm
68804	Puros Cortico-Cancellous Particles, 1 cc, 1000-2000 µm
68805	Puros Cortico-Cancellous Particles, 2 cc, 1000-2000 µm

Shelf-life: Five (5) years



* Cancellous bone has been shown to remodel faster than sintered bovine bone.

Puros Cancellous Particulate Allograft

Key Benefit:

Puros Cancellous Particulate Allograft has a history of well-documented clinical results, is an easy-to-handle choice for predictable bone regeneration and acts as an osseoconductive scaffold for new bone formation.¹⁻⁹

Clinical Advantages:

- In large-volume applications, prospective studies have documented faster bone regeneration at 6 months than grafts containing sintered bovine bone matrix^{4,5}
- One study shows the use of tenting screws in combination with Puros Allograft resulted in an average 9.7 mm vertical augmentation in 4 to 5 months¹⁰
- In small-volume applications, regeneration of hard bone has been reported as early as 3 to 5 months^{6,7,11}
- Retains osseoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, and original porosity;^{1,9} enabling the ingrowth of vascular and cellular connective tissue⁷

Shown Clinically Successful In:

- Regeneration of periodontal bone and furcation defects^{1,9}
- Osseous defect regeneration^{1,5-7,9,11}
- Regeneration of extraction sockets^{6,7} and gaps around block grafts^{6,7,11,12}
- Horizontal alveolar crest augmentation^{6,7,11,12} and sinus augmentation^{4,5}



Catalog Number	Description
68210	Puros Cancellous Particles, 0.5 cc, 250-1000 µm
68211	Puros Cancellous Particles, 1 cc, 250-1000 µm
68209	Puros Cancellous Particles, 2 cc, 250-1000 µm
68212	Puros Cancellous Particles, 0.5 cc, 1000-2000 µm
68213	Puros Cancellous Particles, 1 cc, 1000-2000 µm
68214	Puros Cancellous Particles, 2 cc, 1000-2000 µm

Shelf-life: Five (5) years

Puros Cortical Particulate Allograft

Key Benefit:

Puros Cortical Particulate Allograft is an easy way to naturally regenerate bone, with the particles having the density and strength of cortical autograft. It can be used alone or as a composite graft in space maintenance and volume enhancement procedures.¹³

Clinical Advantages:

- Without sacrificing ridge contour, cortical particles remodel into both a dense, lamellar structure as well as natural, viable bone—with similar density to native bone¹²
- One study reported an average gain of 1.8 mm in bone thickness when used in a “sandwich” technique for the treatment of localized buccal dehiscence defects¹⁴
- One study found that by combining “sandwich” and mucogingival pouch flap techniques, there was a 1.5 to 3.5 mm gain in mean ridge thickness, and an 84% to 100% gain in mean ridge height¹⁵

Shown Clinically Successful In:

- Sinus augmentation^{16,17}
- Alveolar ridge augmentation^{12,14,15}
- “Tent” and “sandwich” grafting techniques¹⁵



Catalog Number	Description
68271	Puros Cortical Particles, 0.5 cc, 250-1000 µm
68272	Puros Cortical Particles, 1 cc, 250-1000 µm
68273	Puros Cortical Particles, 2 cc, 250-1000 µm
68274	Puros Cortical Particles, 0.5 cc, 1000-2000 µm
68275	Puros Cortical Particles, 1 cc, 1000-2000 µm
68276	Puros Cortical Particles, 2 cc, 1000-2000 µm

Shelf-life: Five (5) years

Bone Grafts

Puros Block Allograft

Key Benefit:

By eliminating the need to harvest an autogenous block graft, Puros Block Allografts may save time and help to reduce pain and can shorten the patient's rehabilitation period.

Clinical Advantages:

- A clinically documented solution for effectively restoring volume to severely resorbed ridges^{2,3,18}
- Outcomes have been comparable to those generally reported for autogenous block grafting, but without the need for a second surgery to harvest bone¹⁹⁻²¹
- Clinical reports have documented the ability to stabilize implants 5 to 6 months after grafting^{2,3,18}
- Retains osseoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern and original porosity^{2,3}



Catalog Number	Description
68220	Puros Block Allograft, 10 mm
68221	Puros Block Allograft, 15 mm

Shelf-life: Five (5) years

Puros Demineralized Bone Matrix (DBM) Putty And Putty With Chips

Key Benefit:

This moldable putty comprises 100% demineralized allograft and is sterilized using the proprietary Cancellé SP[®] DBM Sterilization Process. This process sterilizes DBM Putty and Putty with Chips while inactivating or removing bacteria, viruses, fungi and spores, but preserves the biological integrity and natural collagen structure of bone. Puros DBM Putty with Chips has both cancellous and cortical mineralized chips for osseoconductivity as well as osseoinductive potential.*

Clinical Advantages:

- Pliable putty maintains its form and resists migration in a fluid environment
- Ready-to-use moldable formulation offers excellent handling and time-saving convenience
- Every donor lot is tested for osseoconductivity (OI) potential* and inflammatory response in an in vivo ectopic rat assay after sterilization²²
- Puros DBM Putty and Putty with Chips are terminally sterilized to SAL 10⁻⁶ using low-temperature, low-dose gamma irradiation, which has shown an impact on the OI score results in an in vivo rat assay²³



Catalog Number	Description
00-1105-005-01	Puros DBM Putty, 0.5 cc
00-1105-010-01	Puros DBM Putty, 1 cc
00-1105-020-01	Puros DBM Putty, 2 cc
00-1105-005-02	Puros DBM Putty with Chips, 0.5 cc
00-1105-010-02	Puros DBM Putty with Chips, 1 cc
00-1105-020-02	Puros DBM Putty with Chips, 2 cc

Shelf-life: One (1) year

* Findings from an in vivo rat assay are not necessarily predictive of human clinical results.

CopiOs Xenograft Particulates

Predictable Remodeling And Regeneration

- CopiOs Cancellous Particulate Xenografts are mineralized particulate cancellous bovine bone chips indicated for large and small bone defects^{44,45}
- In small defects it has been reported into vital bone⁴⁴
- During the remodeling process CopiOs Cancellous Particulate Xenografts act as an osseoconductive scaffold for new bone formation^{44,46}
- Retains osseoconductive properties due to the preservation of the original bovine cancellous bone matrix collagen and mineral composition, trabecular pattern and original porosity^{44,47}
- Biocompatible and well-tolerated by the host tissues in both animal and human studies^{45,48}



Alternative To Autogenous Bone

- CopiOs Cancellous Particulate Xenografts have been reported to be a viable alternative to autogenous bone grafts.^{45,48}

Tutoplast Process

- Sterilized and preserved using the proprietary Tutoplast process, CopiOs Cancellous Particulate Xenografts offers a high-quality option for successful bone regeneration.

Catalog Number	Description
97200	CopiOs Cancellous Particulate Xenograft, 250 - 1000 µm, 0.5 cc
97201	CopiOs Cancellous Particulate Xenograft, 250 - 1000 µm, 1 cc
97202	CopiOs Cancellous Particulate Xenograft, 250 - 1000 µm, 2 cc
97210	CopiOs Cancellous Particulate Xenograft, 1000 - 2000 µm, 0.5 cc
97211	CopiOs Cancellous Particulate Xenograft, 1000 - 2000 µm, 1 cc
97212	CopiOs Cancellous Particulate Xenograft, 1000 - 2000 µm, 2 cc

Shelf-life: Five (5) years

Endobon Xenograft Granules

- Bovine-derived hydroxyapatite that has been fully deproteinated for safety
- An essentially non-resorbable material that is ideally suited for regeneration of defects when effective space maintenance is required
- Osseoconductive due to the interconnecting micro and macro pores for bony integration, which facilitate graft stability and vascular ingrowth
- Single-unit and value packs for sterility and value



Endobon Xenograft Granules Are Indicated For Dental And/Or Oral Surgical Procedures, Such As:

- Filling defects after resection, cystectomy, apicoectomy or other defects in the alveolar ridge or wall
- Peri-implant defects
- Alveolar ridge augmentation, including aesthetic contouring defects
- Extraction socket grafting
- Sinus elevation

Catalog Number	Description
ROX05	500-1000 µm, 0.5 ml
ROX10	500-1000 µm, 1 ml
ROX20	500-1000 µm, 2 ml
ROXLG20	1000-2000 µm, 2 ml
ROXLG50	1000-2000 µm, 5 ml (5 units @ 1 ml each)
ROXLG80	1000-2000 µm, 8 ml (8 units @ 1 ml each)

Shelf-life: 18 months

NovaBone Dental Putty

NovaBone Dental Putty is a next generation Calcium Phosphosilicate (CPS) Bone Graft substitute engineered for enhanced handling and uncompromised clinical performance. With a bimodal particle distribution of its active ingredient and using a Glycerin/PEG carrier, putty formulation allows for easier manipulation and demonstrates consistent resorption characteristics. Available in disposable uni-dose cartridges, the unique delivery system simplifies delivering the graft, thus facilitating minimally invasive techniques including hard-to-access defects such as gaps in immediate implant placement and crestal-approach sinus lifts. Cartridges are available in various sizes and are used in conjunction with NovaBone’s cartridge dispenser. Each cartridge delivers 0.25 cc (Gray) to 0.5 cc (Blue) of putty. Putty is stable at room temperature, does not require refrigeration, has a four (4) year shelf-life, and appears radio-dense on radiographs.

- NovaBone Dental Putty Syringes - indicated for simple socket preservations and defects with easier access
- NovaBone Dental Putty Cartridges - indicated for minimally invasive surgeries including immediate implants and crestal sinus augmentation procedures



Cartridge System

Catalog Number	Description
EU3620	0.5 cc Cartridges (Blue) 2 Pk
EU3640	0.5 cc Cartridges (Blue) 4 Pk
EU4640	0.25 cc Cartridges (Gray) 4 Pk
EU4600	Cartridge Dispenser

Syringe

Catalog Number	Description
EU1610	0.5 cc Syringe 1 Pk

Shelf-life: Four (4) years

Puros Dermis Allograft Tissue Matrix

Key Benefit:

Ideal for aesthetic case requirements, Puros Dermis Allograft Tissue Matrix is a high-quality, natural, biocompatible matrix that is sterilized and preserved through the proprietary Tutoplast process to provide an easy-to-use, biocompatible, regenerative solution, for horizontal and vertical soft-tissue augmentation,^{28,29} soft-tissue management and guided tissue regeneration procedures.

Clinical Advantages:

- Reduces morbidity and saves valuable chair time by eliminating the need to harvest an autogenous graft
- Provides an excellent healing environment and acts as a scaffold for the patient’s own tissue to grow into and regenerate vital soft-tissue^{28,29}
- Exhibits multi-directional strength³⁰ and exceptional adaptability to surface contours⁴⁹
- Maintains space to allow for angiogenesis and tissue remodeling, and increases the volume of attached gingiva and connective tissue^{28,29}
- Retains the natural collagen matrix, elastic content and mechanical properties of native dermis
- Easy-to-use with four convenient sizes and two different thicknesses—can be cut to shape for specific surgical procedures
- Rehydrates in seconds, no refrigeration required
- Packaged sterile without residual antibiotics⁸

Puros Dermis May Be Used In The Following:

- Both horizontal and vertical soft-tissue augmentation^{28,29}
- Periodontal/peri-implant soft-tissue management
- Guided tissue regeneration procedures



Catalog Number	Description - Thin
68794	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.3-0.7 mm
68795	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.3-0.7 mm
68796	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.3-0.7 mm
68797	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.3-0.7 mm

Shelf-life: Five (5) years

Catalog Number	Description - Thick
68793	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.8-1.8 mm
68790	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.8-1.8 mm
68791	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.8-1.8 mm
68792	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.8-1.8 mm

Shelf-life: Five (5) years

CopiOs Pericardium Membrane

Key Benefit:

CopiOs Pericardium Membrane is made from bovine pericardium that provides a long-lasting,³² conformable barrier—strong⁸ enough to meet most clinical needs and supple enough to adapt to challenging graft contours.

Clinical Advantages:

- Clinically demonstrated performance in guided bone regeneration procedures,^{33,34} where ease of manipulation and adaptability to surface contours is essential
- Shown to provide a stable, long-lasting barrier during healing and integration of Puros Allografts, and staged or immediately placed implants^{33,34}
- Supports an aesthetic soft-tissue response^{33,34} through facilitation of cell attachment and proliferation and remodeling into vascularized, connective tissue^{33,35}
- Retains the structure and composition of natural tissue due to the proprietary Tutoplast process, leading to optimal performance and handling^{33,34}



Catalog Number	Description
77776	CopiOs Pericardium Membrane, 15 x 20 mm
77777	CopiOs Pericardium Membrane, 20 x 30 mm
77778	CopiOs Pericardium Membrane, 30 x 40 mm

Shelf-life: Five (5) years

Puros Pericardium Allograft Membrane

Key Benefit:

Puros Pericardium Allograft Membrane provides a long-lasting³² barrier when an optimum balance of strength and handling for graft containment are necessary.

Clinical Advantages:

- Retains the natural collagen matrix and mechanical properties of native pericardium due to the proprietary Tutoplast process
- Inhibits epithelial cell migration and maintains space for periodontal ligament and bone regeneration³¹



Catalog Number	Description
68770	Puros Pericardium Membrane, 15 x 20 mm
68771	Puros Pericardium Membrane, 20 x 30 mm
68772	Puros Pericardium Membrane, 30 x 40 mm

Shelf-life: Five (5) years

Copios Extend Membrane

Key Benefit:

Copios Extend Membrane is a long-lasting, resorbable collagen membrane designed to allow implant placement while providing ample time for regeneration. It conforms to the defect with enough structural integrity for space maintenance. Copios Extend Membrane lasts 6 to 9 months.

Clinical Advantages:

- Cell-Occlusive – allows nutrients to permeate while occluding epithelial cells⁴³
- Biocompatible – highly purified, intact porcine dermis⁴³
- Convenient handling – conformable and easy to reposition in the defect
- Easy-to-Use – supplied sterile and implantable dry or briefly hydrated



Catalog Number	Description
0190Z	Copios Extend Membrane, 15 x 20 mm
0191Z	Copios Extend Membrane, 20 x 30 mm
0192Z	Copios Extend Membrane, 30 x 40 mm

Shelf-life: Two (2) years

Zimmer Socket Repair Membrane

Key Benefit:

Zimmer Socket Repair Membrane is designed to assist wound healing in alveolar facial plate repair and residual ridge preservation following atraumatic, flapless single-root tooth extraction.

Clinical Advantages:

- Socket grafting can help to preserve bone volume for implant placement³⁶
- The socket repair procedure is a flapless technique designed to preserve natural soft-tissue architecture and vascularity³⁷
- Membrane is usually completely resorbed 26 to 38 weeks following surgery*



Catalog Number	Description
0154	Zimmer Socket Repair Membrane, 10 x 20 mm

Shelf-life: Three (3) years

* When not exposed, the resorption rate is 26 to 38 weeks; if left exposed, resorption time is shorter.

Zimmer Collagen Plug, Tape and Patch

Key Benefit:

Highly porous, absorbable collagen wound dressings to help protect, heal and repair oral wounds.

Clinical Advantages:

- Protects Wound Bed – adheres and provides coverage to oral wounds and sores
- Designed to Aid Healing – porous, absorbable matrix supports delicate new tissue
- Versatile for Everyday Use – three convenient shapes for common oral wounds and procedures
- Designed to resorb within a short timeframe
- Indicated for management of oral wounds and sores:
 - Denture sores
 - Oral ulcers (non-infected or viral)
 - Periodontal surgical wounds
 - Suture sites
 - Burns
 - Extraction sites
 - Surgical wounds
 - Traumatic wounds



Zimmer Collagen Plug
10 mm x 20 mm



Zimmer Collagen Tape
2.5 cm x 7.5 cm, 1.0 mm thick



Zimmer Collagen Patch
2 cm x 4 cm, 3.0 mm thick

Catalog Number	Description
0100Z	Zimmer Collagen Tape, 10 Pk
0101Z	Zimmer Collagen Patch, 10 Pk
0102Z	Zimmer Collagen Plug, 10 Pk

Shelf-life: Three (3) years

Sinus Lift Solutions

Sinus Crestal Approach Kit

Key Benefit:

The Sinus Crestal Approach Kit is minimally invasive, designed for creating an osteotomy into the inferior cortical bone without tearing the Schneiderian membrane.

Clinical Advantages:

- S-reamer head has been designed with a special blade structure to leave a thin bone disk between membrane and reamer—the reamer does not touch membrane directly
- Stoppers control the drilling depth of the S-reamer (10 pieces, 2 to 11 mm) and can also be mounted on the bone spreader and bone condenser
- S-reamer can be used for misaligned and septum cases
- Kit provides a complete set of tools for performing a crestal sinus lift



Catalog Number	Description
SCAKIT	Sinus Lift Kit, Crestal Approach

Replacement parts also available.

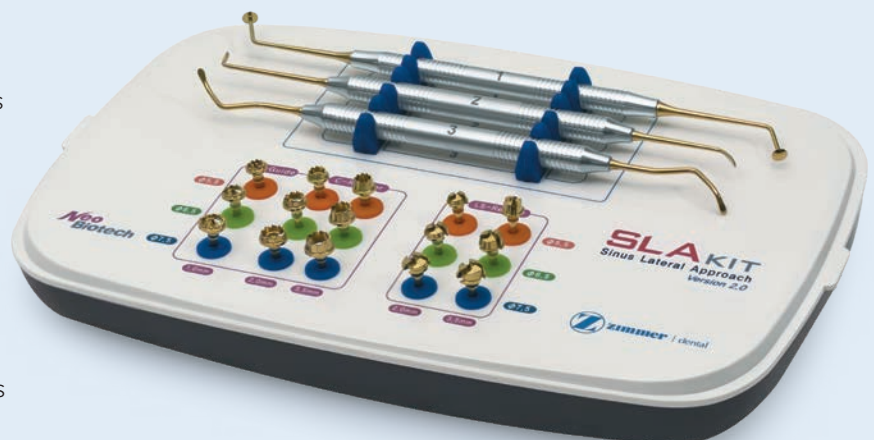
Sinus Lateral Approach Kit

Key Benefit:

The Sinus Lateral Approach Kit provides the instruments and techniques for a sinus lift utilizing a lateral approach (modified Caldwell-Luc) procedure.

Clinical Advantages:

- Reamers designed to be used with conventional surgical motor handpiece at 2,000 rpm for quick entry into the sinus
- LS-reamer, used to create the lateral wall osteotomy, has been designed to help avoid arterial blood vessels
- Instruments provide method of opening the lateral wall near the crest
- Minimal flap and smaller window size compared to conventional techniques
- Designed to control drilling depth up to 3.5 mm without use of drill stops



Catalog Number	Description
SLAKIT	Sinus Lift Kit, Lateral Approach

Replacement parts also available.

Screw Fixation Kit

The Screw Fixation System provides a compact solution for the temporary fixation and stabilization of bone transplants, suitable resorbable and non-resorbable bone replacement materials, and membranes for the alveolar ridge. Two color coded systems in 1.5 mmD MICRO (BLUE) and 2.0 mmD MINI (RED) offer concise and cost effective functional options. The color coding scheme for the two systems, the components and the screws, makes easy and rapid identification of the parts possible and simplifies parts matching. This modular storage system permits individual configuration and the open design ensures access during cleaning and sterilization. Fixation screws and mesh are manufactured from pure titanium or titanium alloy. They are biocompatible, corrosion-proof and non-toxic in the biological environment. They allow imaging virtually free of artifacts.

Secure & Simple

The Screw Fixation System comes with power grip for secure and stable transfer to the surgical site. The screws are easily picked up and have a reliable connection to the driver.

Compact

The screw cartridges of the Screw Fixation System are more than simply storage containers. The cartridges make organization and sterilization of screws easy.



Screw Fixation Kit – Start-Up Kit Ordering Information

Contents	Assembled Start-Up Kit*	Components
Tray	69.01.10Z	69.01.11Z
Screw Driver Handle		75.23.52Z
Screw Driver Insert, Short		75.23.23Z
Screw Driver Insert, Long		75.23.19Z
Pilot Drill, Micro, 14 mmL		69.01.09Z
Pilot Block Drill, Micro		69.01.16Z

* Fixation screws are sold separately. Screws are available in 1.5 mm and 2.0 mm diameters.

Safescraper TWIST Bone Collector

- Unique design provides 160° cutting area to effectively harvest up to 5 cc of cortical bone and facilitates access to difficult posterior regions
- Bone is contained in a sterile chamber
- Lateral opening system provides device stability for easy retrieval of harvested bone



Catalog Number	Description
3598	Disposable Cortical Bone Collector, 3 Pk Straight
3987	Disposable Cortical Bone Collector, 3 Pk Curved

Shelf-life: Three (3) years



Additional Regenerative Products



RegenerOss Allograft

- Broad selection of cadaveric-derived bone from a comprehensive tissue bank that conducts screening, recovery, autopsies, processing and packaging for all donor tissue.
- Aseptically processed for maximum regenerative properties without destruction of the biological properties of the tissue.
- All donor tissues receive multiple screening and cultures to ensure that the tissues are pathogen-free.



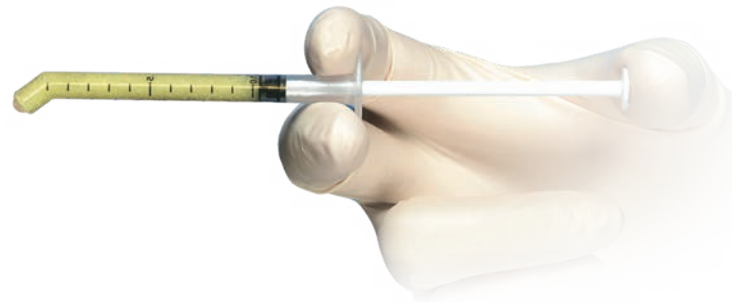
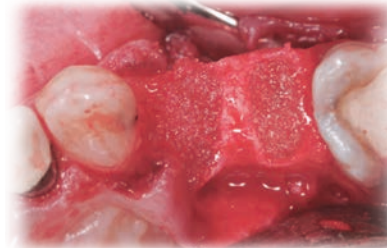
Catalog Number	Description		
RMCA205	Cancellous, Mineralized	0.5 cc	200-300 µm
RMCA305	Cancellous, Mineralized	0.5 cc	300-500 µm
RMCA505	Cancellous, Mineralized	0.5 cc	500-800 µm
RMCA210	Cancellous, Mineralized	1 cc	200-300 µm
RMCA310	Cancellous, Mineralized	1 cc	300-500 µm
RMCA510	Cancellous, Mineralized	1 cc	500-800 µm
RMCA220	Cancellous, Mineralized	2 cc	200-300 µm
RMCA320	Cancellous, Mineralized	2 cc	300-500 µm
RMCA520	Cancellous, Mineralized	2 cc	500-800 µm
RDCA205	Cancellous, Partially Demineralized	0.5 cc	200-300 µm
RDCA305	Cancellous, Partially Demineralized	0.5 cc	300-500 µm
RDCA505	Cancellous, Partially Demineralized	0.5 cc	500-800 µm
RDCA210	Cancellous, Partially Demineralized	1 cc	200-300 µm
RDCA310	Cancellous, Partially Demineralized	1 cc	300-500 µm
RDCA510	Cancellous, Partially Demineralized	1 cc	500-800 µm
RDCA220	Cancellous, Partially Demineralized	2 cc	200-300 µm
RDCA320	Cancellous, Partially Demineralized	2 cc	300-500 µm
RDCA520	Cancellous, Partially Demineralized	2 cc	500-800 µm

Catalog Number	Description		
RMCO205	Cortical, Mineralized	0.5 cc	200-300 µm
RMCO305	Cortical, Mineralized	0.5 cc	300-500 µm
RMCO505	Cortical, Mineralized	0.5 cc	500-800 µm
RMCO210	Cortical, Mineralized	1 cc	200-300 µm
RMCO310	Cortical, Mineralized	1 cc	300-500 µm
RMCO510	Cortical, Mineralized	1 cc	500-800 µm
RMCO220	Cortical, Mineralized	2 cc	200-300 µm
RMCO320	Cortical, Mineralized	2 cc	300-500 µm
RMCO520	Cortical, Mineralized	2 cc	500-800 µm
RDCO205	Cortical, Partially Demineralized	0.5 cc	200-300 µm
RDCO305	Cortical, Partially Demineralized	0.5 cc	300-500 µm
RDCO505	Cortical, Partially Demineralized	0.5 cc	500-800 µm
RDCO210	Cortical, Partially Demineralized	1 cc	200-300 µm
RDCO310	Cortical, Partially Demineralized	1 cc	300-500 µm
RDCO510	Cortical, Partially Demineralized	1 cc	500-800 µm
RDCO220	Cortical, Partially Demineralized	2 cc	200-300 µm
RDCO320	Cortical, Partially Demineralized	2 cc	300-500 µm
RDCO520	Cortical, Partially Demineralized	2 cc	500-800 µm

Shelf-life: Two (2) - Five (5) years depending on lot

RegenerOss Allograft Putty Plus Mineralized

- Plant-based carrier (derived from soybeans with no residual soy proteins)
- Provides graft containment
- Highly resistant to irrigation
- Available in 3 volumes: 0.5 cc, 1 cc and 2 cc (Four 0.5 cc Syringes)
- Contains 48% by weight DBM (28% Cortical and 20% cancellous chips) for handling and bone regeneration
- Moldable, non-toxic, lecithin carrier that is highly resistant to irrigation
- Osseointegrity of every lot is validated by a cell proliferation assay
- Ergonomic design features a smaller diameter syringe with a curved tip to treat hard-to-reach defects



Catalog Number	Description
ROAPM05	0.5 cc Syringe
ROAPM10	1 cc Syringe
ROAPM20	2 cc Syringe (Four 0.5 cc syringes) Value Pack

Shelf-life: Two (2) years

RegenaVate Formable DBM

Key Benefit:

RegenaVate Formable DBM allograft contains demineralized bone matrix (DBM) and mineralized cortical cancellous bone chips in a porcine gelatin carrier. The product is available in two forms - Room Temperature (RT) and Frozen - to meet clinician preference.

Clinical Advantages:

- Induces bone formation and facilitates bone growth*
- The DBM is tested for osseointegrativity* in a scientifically-proven in vivo rat assay
- Mineralized chips provide for osseointegrativity
- Unique DBM provides handling flexibility
- Clinician can control product consistency: gel, paste or putty



Room Temperature

Catalog Number	Description
005301Z	RegenaVate Formable DBM, RT, 1 cc
005302Z	RegenaVate Formable DBM, RT, 2 cc

Shelf-life: Two (2) years

Frozen

Catalog Number	Description
001504Z	RegenaVate Formable DBM Block, 1 cm x 1 cm x 0.5 cm, 0.5 cc
001505Z	RegenaVate Formable DBM Block, 1 cm x 2 cm x 0.5 cm, 1 cc
001510Z	RegenaVate Formable DBM Block, 1 cm x 4 cm x 0.5 cm, 2 cc

Shelf-life: Two (2) years

RegenaVate DBM Fill

Key Benefit:

RegenaVate DBM Fill contains demineralized bone matrix (DBM) in a porcine gelatin carrier. The DBM is “Flowable” at 45°C and is a resilient solid at body temperature.

Clinical Advantages:

- Packaged in convenient syringes for ease of use
- The DBM is tested for osseointegrativity* in a scientifically-proven in vivo rat assay
- Clinician can control product consistency: gel, paste or putty
- Flowable DBM provides unique handling flexibility



Room Temperature

Catalog Number	Description
013005Z	RegenaVate DBM Fill, 0.5 cc
013010Z	RegenaVate DBM Fill, 1 cc

Shelf-life: Two (2) years

* These implants were evaluated in a human clinical study and were shown to induce bone formation. Each lot is tested using the athymic nude rat assay to verify osseointegrativity potential.

IngeniOs HA Synthetic Bone Particles

Key Benefit:

Long-lasting IngeniOs HA Synthetic Bone Particles are 100% non-biologic particles made of pure-phase hydroxyapatite (HA), a composition similar to HA found in naturally-occurring bone.

Clinical Advantages:

- Long-lasting osseointegrative support with negligible resorption over time to help provide long-term graft stability and maintenance of volume and aesthetic contours
- Up to 80% interconnected porosity allowing for vascularized bone formation, osseointegration and the natural remodeling process to occur within the graft framework²⁴
- Radiopacity of material making it easy to identify on an X-ray
- Can be used as a bone graft extender to provide radiopacity or long-term volume preservation



Catalog Number	Description
0-802501	IngeniOs HA Synthetic Bone Particles, 0.25 cc, 250-1000 µm
0-800501	IngeniOs HA Synthetic Bone Particles, 0.5 cc, 250-1000 µm
0-801001	IngeniOs HA Synthetic Bone Particles, 1 cc, 250-1000 µm
0-802001	IngeniOs HA Synthetic Bone Particles, 2 cc, 250-1000 µm
0-900501	IngeniOs HA Synthetic Bone Particles, 0.5 cc, 1000-2000 µm
0-901001	IngeniOs HA Synthetic Bone Particles, 1 cc, 1000-2000 µm
0-902001	IngeniOs HA Synthetic Bone Particles, 2 cc, 1000-2000 µm

Shelf-life: Five (5) years

IngeniOs β-TCP Bioactive Synthetic Bone Particles

Key Benefit:

Resorbable IngeniOs β-TCP Bioactive Synthetic Bone Particles are 100% non-biologic particles made of pure-phase beta tricalcium phosphate (β-TCP) that is silicated, providing the potential for increased bioactivity.^{24,25}

Clinical Advantages:

- Fully resorbable, non-biologic particles designed to resorb in balance with replacement by naturally-regenerating mineralized bone
- Up to 75% interconnected porosity designed to enable ingrowth of healthy bone tissue²⁴
- Radiopacity of material making it easy to identify on an X-ray
- Can be used as a bone graft extender to extend volume or add radiopacity



Catalog Number	Description
0-602501	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 0.25 cc, 250-1000 µm
0-600501	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 0.5 cc, 250-1000 µm
0-601001	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 1 cc, 250-1000 µm
0-602001	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 2 cc, 250-1000 µm
0-700501	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 0.5 cc, 1000-2000 µm
0-701001	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 1 cc, 1000-2000 µm
0-702001	IngeniOs β-TCP Bioactive Synthetic Bone Particles, 2 cc, 1000-2000 µm

Shelf-life: Five (5) years

BioMend and BioMend Extend Resorbable Collagen Membranes

Key Benefit:

Resorbable membranes that are rigid enough to create and maintain space. BioMend Membrane is resorbed in approximately eight (8) weeks.³⁰ BioMend Extend Membrane is resorbed in approximately 18 weeks.³⁰

Clinical Advantages:

- Resorbable³⁰ – eliminates second-stage surgery for membrane removal, reducing wound trauma and surgical chair time³⁰
- Cell-Occlusive – serves as barrier to prevent epithelial cell migration and allows passage of essential nutrients³⁰
- Space-Maintaining – provides rigid scaffold for tissue regeneration in GTR and GBR procedures³⁰
- Excellent Handling – tear resistant, suturable, pliable; easy to handle even when hydrated; conforms to defect morphology³⁸



BioMend Membrane

Catalog Number	Description
0103Z	Resorbable Collagen Membrane 15 mm x 20 mm
0105Z	Resorbable Collagen Membrane 20 mm x 30 mm
0107Z	Resorbable Collagen Membrane 30 mm x 40 mm

Shelf-life: Three (3) years

BioMend Extend Membrane

Catalog Number	Description
0140Z	Resorbable Collagen Membrane 15 mm x 20 mm
0141Z	Resorbable Collagen Membrane 20 mm x 30 mm
0142Z	Resorbable Collagen Membrane 30 mm x 40 mm

Shelf-life: Three (3) years

OsseoGuard and OsseoGuard Flex Resorbable Collagen Membranes

- Resorbable collagen membranes made with highly purified, bovine-derived collagen sourced from safe sources
- Resorption profile of both membranes long enough to be well suited for GBR procedures
- Two different levels of drapability so that you can choose the membrane that best meets your needs

OsseoGuard



OsseoGuard Flex



OsseoGuard Membrane

Catalog Number	Description
OG1520	Resorbable Collagen Membrane 15 mm x 20 mm
OG2030	Resorbable Collagen Membrane 20 mm x 30 mm
OG3040	Resorbable Collagen Membrane 30 mm x 40 mm

Shelf-life: Three (3) years

OsseoGuard Flex Membrane

Catalog Number	Description
OGF1520	Resorbable Collagen Membrane 15 mm x 20 mm
OGF2030	Resorbable Collagen Membrane 20 mm x 30 mm
OGF3040	Resorbable Collagen Membrane 30 mm x 40 mm

Shelf-life: Three (3) years

- 1 Tsao YP, Neiva R, Al-Shammari K, Oh TJ, Wang HL. Effects of a mineralized human cancellous bone allograft in regeneration of mandibular Class II furcation defects. *J Periodontol.* 2006;77:416-425.
- 2 Keith JD Jr, Petrunaro P, Leonetti JA, Elwell CW Jr, Zeren KJ, Caputo C, et al. Clinical and histologic evaluation of a mineralized block allograft: results from the developmental period (2001-2004). *Int J Periodontics Restorative Dent.* 2006;26:321-327.
- 3 Leonetti JA, Koup R. Localized maxillary ridge augmentation with a block allograft for dental implant placement: case reports. *Implant Dent.* 2003;12:217-226.
- 4 Froum SJ, Wallace SS, Elian N, Cho SC, Tarnow DP. Comparison of mineralized cancellous bone allograft (Puros) and anorganic bovine bone matrix (Bio-Oss) for sinus augmentation: histomorphometry at 26 to 32 weeks after grafting. *Int J Periodontics Restorative Dent.* 2006;26:543-551.
- 5 Noubissi SS, Lozada JL, Boyne PJ, Rohrer MD, Clem D, Kim JS, Prasad H. Clinical, histologic, and histomorphometric evaluation of mineralized solvent-dehydrated bone allograft (Puros) in human maxillary sinus grafts. *J Oral Implantol.* 2005;31:171-179.
- 6 Block MS, Finger I, Lytle R. Human mineralized bone in extraction sites before implant placement. Preliminary results. *J Amer Dent Assoc.* 2002;133:1631-1638.
- 7 Minichetti JC, D'Amore JC, Hong AJ, Cleveland DB. Human histologic analysis of mineralized bone allograft (Puros) placement before implant surgery. *J Oral Implantol.* 2004;30:74-82.
- 8 Data on file with RTI Surgical, Inc.
- 9 Davi E, Aslan M, Simsek G, Yilmaz AB. The effects of bone chips dehydrated with surgical solvent on healing bone defects. *JIMR.* 2002;30:168-173.
- 10 Le B, Rohrer MD, Prasad HS. Screw "tent-pole" grafting technique for reconstruction of large vertical alveolar ridge defects using human mineralized allograft for implant site preparation. *J Oral Maxillofac Surg.* 68:428-435, 2010.
- 11 Block MS, Degen M. Horizontal ridge augmentation using human mineralized particulate bone: preliminary results. *J Oral Maxillofac Surg.* 2004;62(Suppl 2):67-72.
- 12 Le B, Burstein J, Sedghizadeh PP. Cortical tenting grafting technique in the severely atrophic alveolar ridge for implant site development. *Implant Dent.* 2008;17:40-50.
- 13 Wang HL, Boyapati L. "PASS" principles for predictable bone regeneration. *Implant Dent.* 2006;15:8-17.
- 14 Park SH, Wang HL. Management of localized buccal dehiscence defect with allografts and acellular dermal matrix. *Int J Periodontics Restorative Dent.* 2006;26:589-595.
- 15 Park SH, Wang HL. Mucogingival pouch flap for sandwich bone augmentation: technique and rationale. *Implant Dent.* 2005;14:349-356.
- 16 Schlegel KA, Schultze-Mosgau S, Wiltfang J, Neukam FW, Rupprecht S, Thorwarth M. Changes in mineralization of free autogenous bone grafts used for sinus floor elevation. *Clin Oral Implants Res.* 2006;17:673-678.
- 17 Rubio de Rezende ML, Nascimento de Melo LG, Hamata MM, Monteiro-Amado F. Particulate inlay nasal graft with immediate dental implant placement in a patient with repaired alveolar cleft; case report. *Implant Dent.* 2008;17:332-338.
- 18 Keith JD Jr, Salama MA. Ridge preservation and augmentation using regenerative materials to enhance implant predictability and esthetics. *Compend Contin Educ Dent.* 2007;28:614-623.
- 19 Schwartz-Arad D, Levin L, Sigal L. Surgical success of intraoral autogenous block onlay bone grafting for alveolar ridge augmentation. *Implant Dent.* 2005;14:131-138.
- 20 Levin L, Nitzan D, Schwartz-Arad D. Success of dental implants placed in intraoral block bone grafts. *J Periodontol.* 2007;78:18-21.
- 21 von Arx T, Buser D. Horizontal ridge augmentation using autogenous block grafts and the guided bone regeneration technique with collagen membranes: a clinical study with 42 patients. *Clin Oral Implants Res.* 2006;17:359-366.
- 22 Urist MR. Bone: Formation by autoinduction. *Science.* 1965;150:893-899.
- 23 Effect of terminal gamma sterilization on osteoinductivity. White paper available from RTI Surgical, Inc.
- 24 Data on file with curasan AG.
- 25 Pietak AM, Reid JW, Stott MJ, Sayer M. Silicon substitution in the calcium phosphate bioceramics. *Biomaterial.* 28 (2008) 4023-4032.
- 26 C. Knabe, P. Ducheyne. Chapter 6 – Cellular response to bioactive ceramics, In: *Handbook of Bioceramics and their Applications.* Ed: Prof. Dr. Tadashi Kokubo, Woodhead Publishing Inc., Cambridge, UK, 2008, p. 133-164.
- 27 Greenspan DC, Hernandez R, Faleris J. Histology of surgically implanted Tutoplast processed dermis; RTI Surgical, Inc.
- 28 Petrunaro P. Correction of iatrogenic gingival recession in the esthetic zone. *Inside Dentistry.* 2007;11:2-4.
- 29 Petrunaro P. Acellular dermal matrix tissue grafts. *Inside Dentistry.* 2010;6:34-42.
- 30 Li ST, Chen HC, Lee NS, Ringshia R, Yuen D. A Comparative Study of Zimmer BioMend and BioMend Extend Membranes Made at Two Different Manufacturing Facilities. *Zimmer Dental White Paper:* 2013.
- 31 Wang HL, Carrol WJ. Guided bone regeneration using bone grafts and collagen membranes. *Implant Dent.* 2001;32(7):504-515.
- 32 Rothamel D, Schwarz F, Sager M, Herten M, Sculean A, Becker J. Biodegradation of differently cross-linked collagen membranes: an experimental study in the rat. *Clin Oral Implants Res.* 2005;16(3):369-378.
- 33 Kistler S, Bayer G, Kistler F, Am Lech L. Experience with the biological Tutodent membrane in implant practice. *Implantologie Zeitung Journal.* 2004;8(7):47-48.
- 34 Simsek B, Simsek S. Evaluation of success rates of immediate and delayed implants after tooth extraction. *Chinese Medical Journal.* 2003;116(8):1216-1219.
- 35 Steigmann M. Pericardium membrane and xenograft particulate grafting materials for horizontal alveolar ridge defects. *Implant Dent.* 2006;15:186-191.
- 36 Sclar AG. Ridge preservation for optimum esthetics and function: the "Bio-Col" technique. *Postgraduate Dentistry.* 1999;6:3-11.
- 37 Elian N, Cho SC, Froum S, Smith RB, Tarnow DP. A simplified socket classification and repair technique. *Pract Proced Aesthet Dent.* 2007;19:99-104, quiz 106.
- 38 Data on file with Collagen Matrix, Inc.
- 39 Yuen D, Junchaya C, Zuclich G, Ulreich JB, Lin H, Li S. A resorbable, reconstituted, type I collagen membrane for guided tissue regeneration and soft tissue augmentation. *Society for Biomaterials, Sixth World Biomaterials Congress Transactions,* p. 1288, 2000.
- 40 Bunyaratavei P, Wang HL. Collagen membranes: a review. *J Periodontol.* 2001;72:215-229.
- 41 Wallace SS, Mazor Z, Froum SJ, Cho SC, Tamow DP. Schneiderian membrane perforation rate during sinus elevation using piezosurgery: clinical results of 100 consecutive cases. *Int J Periodontics Restorative Dent.* 2007;27:413-419.
- 42 Wang HL, Shotwell JL, Itose T, Neiva RF. Multidisciplinary treatment approach for enhancement of implant esthetics. *Implant Dent.* 2005;14:21-29.
- 43 Data on file with Collagen Matrix, Inc.
- 44 Tudor C, Srour S, Thorwarth M, Wehrhan F, Stockmann P, Neukam FW et al. Bone regeneration in osseous defects – application of particulated human bovine materials. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2008;105:430-436.
- 45 Instructions for Use.
- 46 Trentz OA, Hoerstrup SP, Sun LK, Bestmann L, Platz A, Trentz OL. Osteoblasts response to allogenic and xenogenic solvent dehydrated cancellous bone in vitro. *Biomaterials.* 2003;24:3417-3426.
- 47 Tadic D, Epple M. A thorough physicochemical investigation of 14 calcium phosphate based bone substitution materials in comparison to natural bone. *Biomaterials.* 2004;25:987-994.
- 48 Ploger M, Wolf HK, Schau I, von der Haar A. Rekonstruktion and Augmentation mittels eines kortikospongiösen Tutodent CS Blocks. *BDIZ Konkret.* 2005;2:84-86.
- 49 Onur R, Singla A. Solvent-dehydrated cadaveric dermis: a new allograft for pubovaginal sling surgery. *J Urol.* 2005;12:801-805.



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