



Biologics

Product Portfolio

25 YEARS

Building a Legacy of Excellence

The foundation of Xtant's Biologics Product Portfolio is based on the human body's intrinsic process for tissue repair, whereby three equally important elements must work in concert for tissue healing to occur: Osteoinduction, Osteoconduction, and Osteogenesis.

The Triad of Bone Remodeling

Osteoinduction

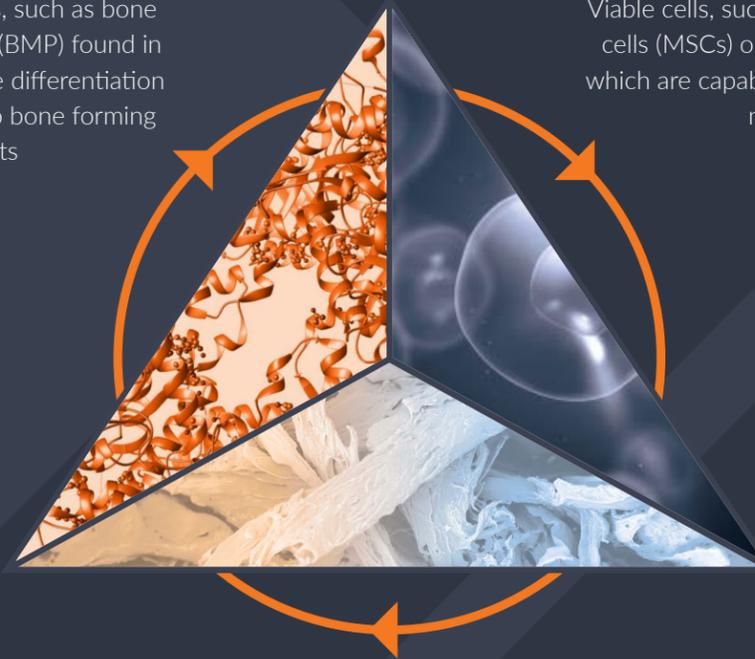
"The Signal"

Native growth factors, such as bone morphogenic proteins (BMP) found in bone that stimulate the differentiation of progenitor cells into bone forming osteoblasts

Osteogenesis

"The Cells"

Viable cells, such as mesenchymal stem cells (MSCs) or osteoprogenitor cells, which are capable of differentiating into new bone



Osteoconduction

"The Scaffold"

Provides the framework for cells to infiltrate and attach and create new bone material

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About Xtant Medical

Our Mission

Our mission is to honor the gift of donation, by allowing our patients to live as full, and complete a life as possible.

Our Values

Responsiveness to our Customers

Xtant serves our patients, our surgeons and care providers by offering the highest quality products and best-in-class service.

Xtant is a partner to our agents and distributors, providing a seamless extension of the services they provide to our surgeons and care providers.

Responsibility to our Stakeholders

To honor Donors and Donor Families, we promise to optimize their gift.

To our Co-Workers, we promise to create a culture of improved performance, personal accountability, and mutual respect.

To our Shareholders, we commit to maximizing their investment.

To our Community, we pledge to be good stewards of the socio-economic obligations of running a great company.

Respect for the Individual

Xtant hires the best and brightest, who embrace our mission and values.

At Xtant every voice matters – we cannot do it individually.

Xtant celebrates each individual; we seek to maximize our collective potential by leveraging our strengths and our differences.

We are committed to a culture, where each individual has a voice that will be heard, without judgement or fear of retaliation. At no point will we tolerate personal agendas that deter us from our mission.

Xtant Biologics

Premier Processor of Advanced Biologics

Why Xtant Products Stand Above the Rest

› Clinically Proven. Time Tested.

Backed by over 20 years of proven clinical use, our products are supported by both internal research and peer-reviewed publications.

› Innovative and Patented Technologies.

We offer unique solutions protected by proprietary patents and built around procedures that enhance patient care.

› Exceptional Handling. Predictable Performance.

Designed to stay where placed, our grafts and implants support optimal bone growth—right where you need it.

› Uncompromising Safety and Quality.

We adhere to the highest quality standards in the industry, with unmatched safety built into every step of our process.

Tissue Bank Credentials

Registered with the FDA



To find out more information about FDA registered tissue establishment companies, visit the FDA website: www.fda.gov/BiologicsBloodVaccines

Accredited with the AATB



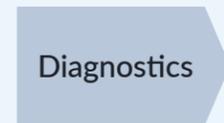
The AATB Standards for Tissue Banking are the most comprehensive and detailed tissue-banking standards in the world. For more information please visit the Accredited Bank Search at: <https://www.aatb.org/accreditation/accredited-bank-search>

MDSAP + ISO 13485



The Medical Device Single Audit Program (MDSAP) is a program that allows the conduct of a single regulatory audit of a medical device manufacturer's quality management system that satisfies the requirement of multiple regulatory jurisdictions. Xtant Medical's MDSAP Certificate includes the United States, Canada, and Australia jurisdictions.

CLIA Certified



The Centers for Medicare & Medicaid Services (CMS) regulates laboratory testing in the U.S. through the Clinical Laboratory Improvement Amendments (CLIA). The objective of the CLIA program is to ensure quality laboratory testing.

[All current certifications, including state licensures where required can be found here.](#)



The Proprietary BacteRinse™ Process

The proprietary, patented BacteRinse process is engineered to effectively clean and disinfect donor tissue while maintaining the native biomechanical structure and growth factors present in the extracellular matrix.

Recovery of Donor Tissue Using Advanced Surgical Techniques

- Standardized protocols to ensure compliance among recovery groups.
- Tissue recovery takes place in qualified recovery suites by trained technicians who follow a full physical evaluation of the donor.

Donor Screening and Eligibility Determination

- Extensive microbiological and serological testing on all recovered donor tissues by CLIA certified, FDA registered laboratory.
- Stringent screening criteria that meets or exceeds the requirements of the FDA and AATB.

Processing of Tissue Using Aseptic Techniques to Prevent Microbial Contamination

- All processing occurs in an ISO 14644 class 5 cleanroom environment.
- Trained and qualified processing staff dons full isolation PPE.
- Utilization of aseptic technique compliant with AORN standards.

Meticulous Cleansing and Disinfection of Tissue

- Series of propriety processing soaks to effectively clean and disinfect donor tissue.
- Proven log reduction against a panel of representative microbes.
- Removal of bone marrow and blood elements.

Donor Screening Criteria

Xtant performs infectious disease testing on all donated human tissue in excess of requirement by the US FDA and American Association of Tissue Banks Standards for Tissue Banking. Only tissue with acceptable infectious disease test results and final lot release testing may be released for processing, distribution, and transplantation. This screening is based on 21 CFR 1271 and AATB Standards for Tissue Banking.

- > The screening process involves more than 150 donor exclusion criteria, some of the strictest in the industry.
- > Donor selection criteria is established by Xtant's Medical Directors and controlled by internal policies and procedures.



OsteoFactor PRO™

Allogeneic Proteins

OsteoFactor Pro is a naturally occurring blend of allogeneic growth factors, stabilized by native human collagen. This advanced allograft leverages the body's natural pathways for fracture repair and bone formation by delivering these growth factors in their intrinsic structure, concentration, and composition. Designed with a biphasic controlled release, OsteoFactor Pro promotes bone healing and regeneration across a range of clinical applications.

- **Wide array of growth factors** - OsteoFactor Pro delivers a naturally occurring and physiologically relevant array of allogeneic growth factors, stabilized by native human collagen. These proteins support cell growth, division, and the complex biological processes involved in bone healing and tissue regeneration.
- **Biphasic release** - OsteoFactor Pro provides an amplified, immediate bolus of growth factors to kick start the healing cascade followed by a long-term sustained release. This biphasic mechanism is engineered to stimulate the body's key natural bone regeneration pathways including targeted angiogenesis, chemotaxis, and ultimately osteogenesis.
- **Tailor your scaffold** - Engineered for ultimate flexibility, OsteoFactor Pro seamlessly integrates with any scaffold, giving surgeons the flexibility to customize treatment for each patient. OsteoFactor Pro is off the shelf, and ready to use.



Product Description	Product Code
OsteoFactor Pro S	122001
OsteoFactor Pro M	122025
OsteoFactor Pro L	122005
OsteoFactor Pro XL	122010

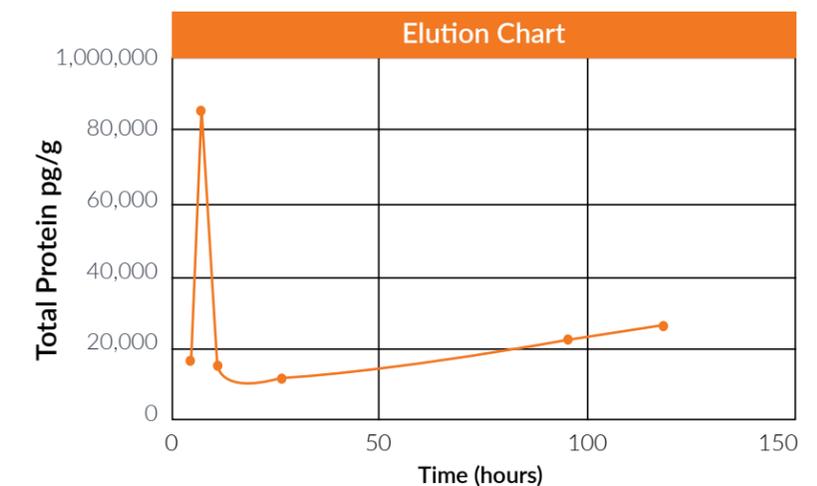
Contact cs@xtantmedical.com to order today!

OsteoFactor Pro is a uniquely processed allograft that maintains a wide array of naturally occurring growth factors known to play a role in the bone healing cascade.

Protein	Osteogenesis/ Osteoinduction	Angiogenesis	Chemotaxis	Cell Proliferation
BMP2	✓	✓	✓	
BMP4	✓	✓	✓	✓
BMP6	✓	✓		
BMP7	✓	✓	✓	✓
VEGF	✓	✓	✓	
IGF1	✓	✓	✓	✓
TGFB1	✓		✓	✓
FGF1	✓	✓		
PDGFBB		✓	✓	✓
INF-γ			✓	✓
BMP9	✓	✓	✓	✓
IGF2	✓	✓	✓	✓
IL6	✓			
TNF-alpha	✓		✓	✓
IL1A	✓	✓	✓	✓
IL1B	✓	✓	✓	✓

*Data on file at Xtant Medical

- OsteoFactor Pro delivers a powerful initial surge of growth factors to initiate the healing cascade, followed by a prolonged, sustained release for continued regenerative support.
- Naturally occurring proteins are stabilized by native collagen and are off the shelf and ready to use when hydrated.



*Data on file at Xtant Medical

Trivium™

Premium Demineralized Bone Matrix

Trivium is the ultimate solution for bone regeneration, combining three synergistic bone components and a suite of growth factors to support bone regeneration. The unique formulation delivers superior handling properties for dependable performance and reliable outcomes.

- Optimized Composition** - Trivium integrates three synergistic elements; elongated demineralized cortical fibers, trabecular cancellous chips, and demineralized bone matrix. The resulting graft provides natural geometry consisting of intertwined structures and interconnected porosity, allowing for attachment and proliferation of a variety of cell types, and promoting tissue ingrowth.
- Targeted, Clinically Relevant Proteins** - Xtant's BacteRinse® proprietary processing methods ensure that Trivium retains native bone morphogenetic proteins (BMPs), critical for tissue repair, and bone formation. The superior results of our BacteRinse Process have been clinically proven for over twenty years.
- PureLoc™ Fiber Technology** - Xtant's next generation, automated milling generates elongated fibers with consistent cross-sectional geometry designed for optimal and lasting entanglement. The result is an interconnected web of fibers that maintains a continuous structure across the bony defect with optimized porosity for tissue ingrowth.
- Versatile Handling Characteristics** - Designed for ease of use in the operating room, Trivium offers superior handling and moldability, which enables surgeons to reliably implant the graft in a variety of surgical sites minimizing migration.

3 Essential Elements for Superior Performance!



Product Description	Product Code
Trivium Advanced Bone Graft 1.0cc	FBXP0001
Trivium Advanced Bone Graft 2.5cc	FBXP0025
Trivium Advanced Bone Graft 5.0cc	FBXP0005
Trivium Advanced Bone Graft 10.0cc	FBXP0010

Bioavailable Growth Factors found within Trivium

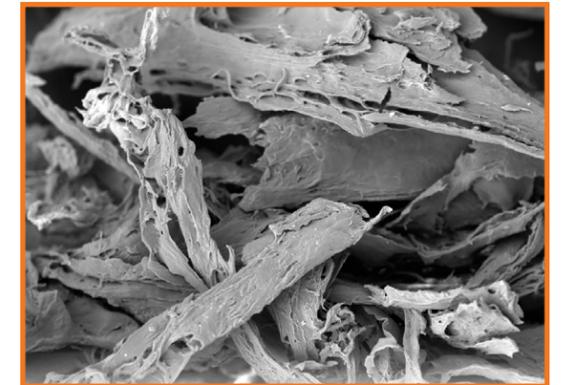
Protein	Osteogenesis Osteoinduction	Angiogenesis	Chemotaxis	Cell Proliferation
BMP2	✓	✓	✓	
BMP4	✓	✓	✓	✓
BMP6	✓	✓		
BMP7	✓	✓	✓	✓
BMP9	✓	✓	✓	✓
VEGF	✓	✓	✓	
IGF1	✓	✓	✓	✓
TGFB1	✓		✓	✓
FGF1	✓	✓		
PDGFBB		✓	✓	✓
TNF-alpha	✓		✓	✓

Data on file at Xtant*

PureLoc™: Science in Every Fiber

Xtant's PureLoc™ technology is engineered for performance, delivering strength, structure, and biological synergy. Our automated precision milling technology produces longer, uniform fibers that interweave into a cohesive, interconnected matrix.

- Engineered fiber network** maintains a continuous, stable structure across the defect for reliable graft performance
- Precision-milled, elongated fibers** interlock for strength, cohesion, and enhanced biologic interaction
- Interconnected porosity** supports vascularization and cellular infiltration for effective tissue regeneration
- Exceptional handling** offers moldability and placement control for a confident surgical experience



SEM image showing consistent demineralized cortical bone fibers utilizing PureLoc™ Technology.

OsteoVive® Plus

Viable Bone Matrix

Clinical Advantage

OsteoVive Plus is a viable bone matrix allograft representing the latest advancement in cellular bone technology. The graft offers an exceptional alternative to autograft through its osteoconductive, osteoinductive, and osteogenic potential. Xtant's proprietary processing methods protect the native elements of bone, including growth factors and viable cells, while our advanced PurLoc™ fiber technology creates exceptional handling characteristics.



OsteoVive Plus in Fortlink®-TS with Tetrafuse 3D Technology

Features & Benefits

- **Osteoinductive Potential** - Patented demineralization procedure effectively exposes and preserves endogenous growth factors within cortical tissue
- **Osteoconductive** - Interconnected fiber matrix and trabecular cancellous structure create a robust scaffold
- **Osteogenic Potential** - Proprietary processing removes blood and marrow while retaining viable cells bound to the native bone structures*
- **Exceptional handling** - High concentration of elongated cortical fibers with consistent cross-sectional geometry creates a moldable and cohesive allograft for optimal surgical placement
- **Ease of use** - Ready to use upon thaw in a room temperature water bath. No rinsing or graft preparation is required



Item #	Product Name
203201	OsteoVive Plus 1.0cc
203202	OsteoVive Plus 2.0cc
203205	OsteoVive Plus 5.0cc
203210	OsteoVive Plus 10.0cc
203215	OsteoVive Plus 15.0cc

*Data on file at Xtant Medical

FibreX®

Demineralized Bone Fibers

FibreX Cortical Bone Fibers redefine ease and efficiency in bone grafting. Designed with exceptional handling characteristics, FibreX ensures a seamless surgical experience while providing biological support necessary for optimal healing. At the core of FibreX's superior performance is our advanced PureLoc™ Technology. This leading-edge process creates fibers with consistent cross-sectional geometry, resulting in a moldable and more cohesive allograft. PureLoc ensures every graft is easy to work with for successful outcomes.

- **Osteoconduction** – provides a continuous porous scaffold for cellular integration and tissue ingrowth
- **Osteoinductive potential** – demineralization exposes native osteoinductive growth factors
- **Moldable & cohesive** – elongated and entangled fibers provide exceptional handling characteristics
- **Rapid hydration** – fibers will hydrate and absorb bioactive agents allowing for quick and easy prep time
- **Expandable to maximize graft fill** – once hydrated, fibers will expand and conform to anatomy



FibreX in Fortlink®-TS with Tetrafuse 3D Technology

Item #	Description	Size
FBX-0001	FibreX Demineralized Bone Fibers 1.0 cc	1.0 cc
FBX-0025	FibreX Demineralized Bone Fibers 2.5 cc	2.5 cc
FBX-0005	FibreX Demineralized Bone Fibers 5.0 cc	5.0 cc
FBX-0010	FibreX Demineralized Bone Fibers 10.0 cc	10.0 cc



3Demin[®]

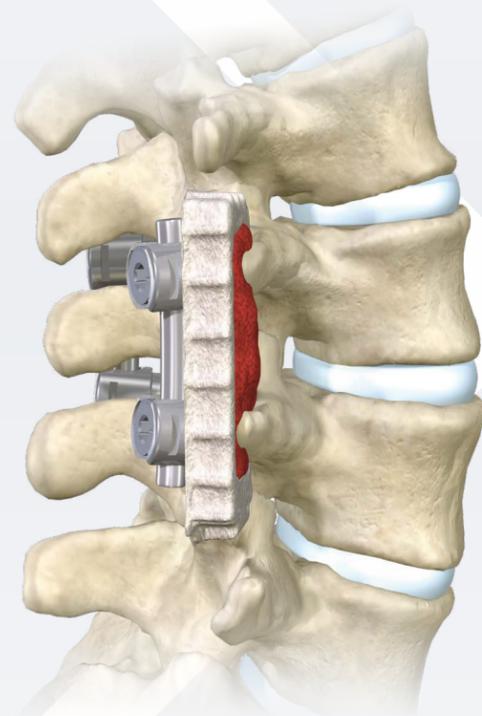
Demineralized Cortical Fibers

Clinical Advantage

The 3Demin line of products consist of demineralized 100% cortical bone in the form of loose fibers and shaped grafts. 3Demin technology utilizes demineralized cortical bone fibers that are entangled and shaped into sizes engineered to compliment specific surgical applications. This unique process creates an interconnected porous graft material that contains BMPs and native growth factors necessary for the promotion of new bone formation.

Features & Benefits

- **Osteoconductive** – entangled fiber architecture provides an excellent porous scaffold for bony ingrowth
- **Osteoinductive potential** – proprietary demineralization process optimizes the preservation of inherent growth factors that aid in cell differentiation
- **Formable handling** – entangled fibers provide grafts with superior cohesiveness and a pliable consistency upon hydration
- **Sterility assurance level (SAL) 10⁻⁶** – terminal sterilization ensures the highest level of patient safety
- **Fluid retention** – matrix absorbs bioactive fluids, like bone marrow aspirate, and supports cellular infiltration
- **Radiolucent** – graft material allows for a more accurate assessment of new bone formation
- **Large graft sizes** - continuous material solution for longer spine constructs and spinal deformity cases



Performance & Effectiveness

Our 3Demin's final products were evaluated for osteoinductive potential using a standardized athymic nude rat model.¹ Evidence of osteoinduction were found in each of the implant sites. Proliferation of mesenchymal stem cells to the graft site and presence of bone marrow-filled osteons are evident and consistent with induction of early bone formation.

An *in vitro* study examining the behavior of MSCs in the presence of 3Demin was undertaken. Bone marrow derived human MSCs were sown on sterile scaffolds of 3Demin. Imaging shows many living cells adhered to the surface of the 3Demin, indicating it is a good osteoconductive scaffold for cell adhesion and proliferation.¹

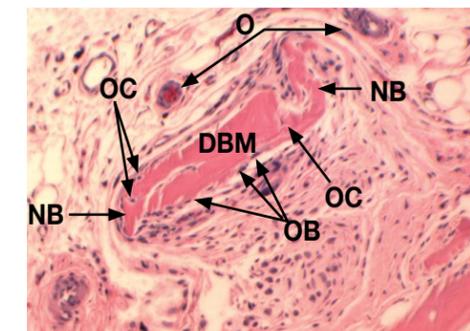


Figure 1: In Vivo Bone Formation 28 Days Post-Implantation of Demineralized Cortical Fibers in an Athymic Rat (H&E Stain, 100X Magnification).
 (CM: Condensed Mesenchyme, DBM: Residual DBM (3Demin), NB: New Bone, O: Osteons, OB: Osteoblasts, OC: Osteocytes).

Figure 1 shows a representative histology image of in vivo bone formation 28 days post-implantation of 3Demin in an athymic rat muscle pouch (H&E staining, 100X magnification). The DBM fiber implant is rimmed with osteoblasts and early bone formation is evident.

3Demin Loose Fibers

Item #	Product Name
109762	3Demin Loose Cortical Fibers 2.5cc
109765	3Demin Loose Cortical Fibers 5.0cc
109760	3Demin Loose Cortical Fibers 10.0cc
109763	3Demin Loose Cortical Fibers 30.0cc

3Demin Strips

Item #	Product Name
109776	3Demin Strip 50 x 10mm - Single
109775	3Demin Strip 50 x 10mm - 2 Per Pack
109771	3Demin Strip 100 x 10mm - 2 Per Pack
109772	3Demin Strip 200 x 10mm - 2 Per Pack

3Demin Boats

Item #	Product Name
109786	3Demin Boat 50 x 25mm - Single
109785	3Demin Boat 50 x 25mm - 2 Per Pack
109781	3Demin Boat 100 x 25mm - 2 Per Pack

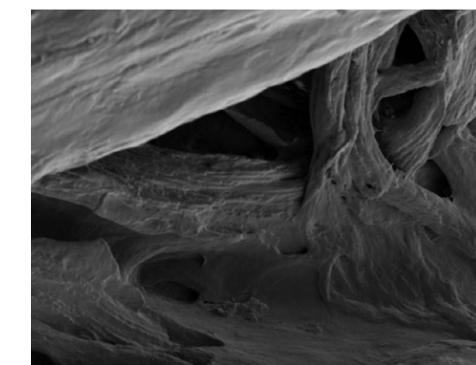


Figure 2: Scanning Electron Microscope image of a 3Demin strip (750X magnification) demonstrates its increased surface area and open structure for better cellular ingrowth.¹

¹ 3Demin Demineralized Cortical Fibers Technical Monograph (PL-160049A) Xtant Medical, Inc.

OsteoSelect®

Demineralized Bone Matrix Putty

Clinical Advantage

OsteoSelect was engineered for superior performance¹. The graft does not adhere to gloves yet maintains its placement in the surgical environment. Osteoinductivity of sterile final product is assessed in vivo. In this challenging model, every lot tested to date has consistently demonstrated an osteoinductive response. This performance validates Xtant Medical's expertise in DBM processing.

Plus Formulation

For surgeons looking for a DBM putty containing bone chips, OsteoSelect Plus delivers with superior handling¹. Combining demineralized cortical chips (1-4mm) with the proven formulation of OsteoSelect DBM putty, Plus eliminates the need for cumbersome intra-operative mixing. Utilizing demineralized instead of mineralized cortical chips ensures that the additional graft material does not diminish osteoinductivity.

Features & Benefits

- **Spine indication** – indications include use as a standalone bone graft in spinal procedures
- **Proven efficacy** - equivalent to iliac crest autograft proven in a preclinical spinal fusion model²
- **Osteoinductive** - assured osteoinductivity via validated processing
- **Cohesive handling** - resists irrigation due to robust biocompatible carrier
- **Sterility assurance level (SAL) 10⁻⁶** – terminal sterilization ensures the highest level of patient safety
- **Radiolucent** – graft material allows for a more accurate assessment of new bone formation

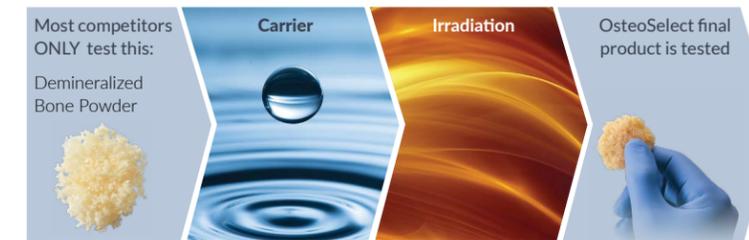


Performance & Effectiveness

OsteoSelect DBM Putty has been shown to be equivalent to autograft when used as a bone graft substitute in a pre-clinical, un-instrumented posterior spinal fusion model². OsteoSelect DBM Putty has also been shown to be superior to a commercially available synthetic bone void filler³.

OsteoSelect DBM Putty is a highly competitive product in the demineralized bone matrix space, providing many benefits to the surgeon and the patient.

Not all DBM putties are created equal



OsteoSelect

Item #	Product Name
309005	OsteoSelect DBM Putty 0.5cc
309010	OsteoSelect DBM Putty 1.0cc
309025	OsteoSelect DBM Putty 2.5cc
309050	OsteoSelect DBM Putty 5.0cc
309100	OsteoSelect DBM Putty 10.0cc
359010	OsteoSelect DBM Putty 1.0cc - Syringe
359025	OsteoSelect DBM Putty 2.5cc - Syringe
359050	OsteoSelect DBM Putty 5.0cc - Syringe
359100	OsteoSelect DBM Putty 10.0cc - Syringe

OsteoSelect Plus

Item #	Product Name
309425	OsteoSelect Plus DBM Putty 2.5cc
309450	OsteoSelect Plus DBM Putty 5.0cc
309500	OsteoSelect Plus DBM Putty 10.0cc
359425	OsteoSelect Plus DBM Putty 2.5cc - Syringe
359450	OsteoSelect Plus DBM Putty 5.0cc - Syringe
359500	OsteoSelect Plus DBM Putty 10.0cc - Syringe

1 Data on file at Xtant Medical.

2 Kiely, P.D. et al., (2014) Evaluation of a new formulation of demineralized bone matrix putty in a rabbit posterolateral spinal fusion model. The Spine Journal. September 14(9): 2155-2163.

3 Schallenberger et al., (2014) Comparison of the Osteogenic Potential of OsteoSelect Demineralized Bone Matrix Putty to NovaBone Calcium-Phosphosilicate Synthetic Putty in a Cranial Defect Model. The Journal of Craniofacial Surgery. March 25(2): 657-661.

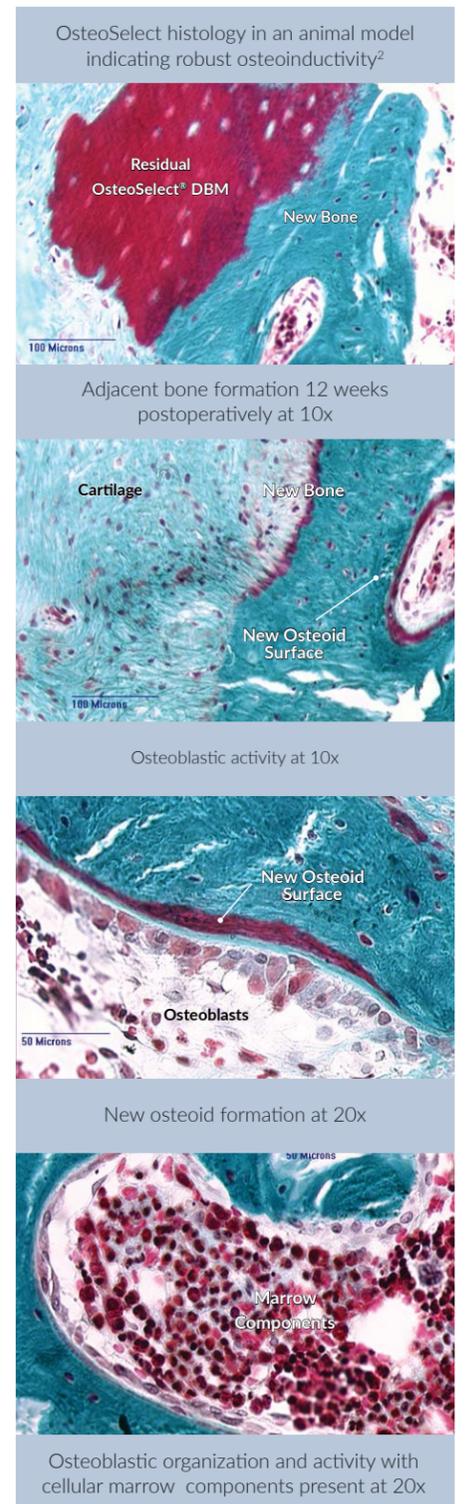
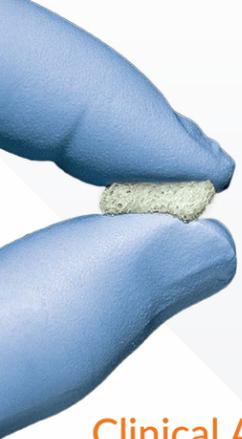


Figure 1: In Vivo Formation 12 weeks Post-Implantation of OsteoSelect in a New Zealand White Rabbit

Trichromatic stained undecalcified section depicting bone formation adjacent to OsteoSelect DBM.



OsteoSponge®

Demineralized Cancellous Sponge

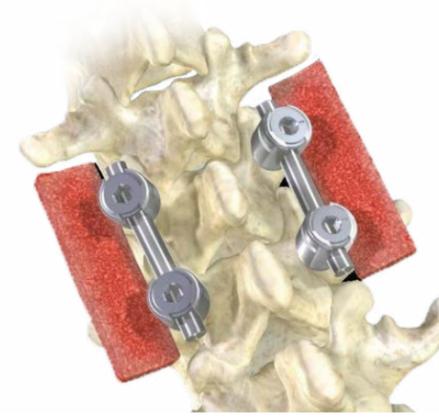
Clinical Advantage

OsteoSponge is a novel form of demineralized bone matrix (DBM) made from 100% cancellous bone. Derived from trabecular bone, OsteoSponge provides a natural scaffold for cellular ingrowth and exposes bone-growth-inducing proteins to the healing environment. The malleable properties of OsteoSponge enable it to fill and conform to irregular bony defects. Due to its shape memory characteristics, OsteoSponge will expand to completely fill a void after graft placement. The unique mechanical and biological properties make OsteoSponge an ideal bone graft for use with all non-weight bearing applications where fusion is desired.

Features & Benefits

- **Osteoconductive** – interconnected porosity provides a scaffold for cellular ingrowth and proliferation
- **Osteoinductive potential** – patented demineralization process optimizes the preservation of inherent growth factors
- **Compressible handling** – compressible sponge readily conforms to fill defect, thus maximizing direct bone to graft contact
- **Sterility assurance level (SAL) 10⁻⁶** – terminal sterilization ensures the highest level of patient safety
- **Fluid retention** – matrix absorbs bioactive fluids, like bone marrow aspirate, and supports cellular infiltration
- **Radiolucent** – graft material allows for a more accurate assessment of new bone formation

Item #	Product Name	Item #	Product Name
109405	OsteoSponge Filler Fine 0.5cc 1–4 mm Chips	109608	OsteoSponge Block 8mm
109210	OsteoSponge Filler Fine 1.0cc 1–4 mm Chips	109609	OsteoSponge Block 8mm – 10 pack
109225	OsteoSponge Filler Fine 2.5cc 1–4 mm Chips	109610	OsteoSponge Block 10mm
109250	OsteoSponge Filler Fine 5.0cc 1–4 mm Chips	109612	OsteoSponge Block 12mm
109310	OsteoSponge Filler Fine 10.0cc 1–4 mm Chips	109614	OsteoSponge Block 14mm
109315	OsteoSponge Filler Fine 15.0cc 1–4 mm Chips		
109410	OsteoSponge Filler 1.0cc 4–10 mm Chips	109622	OsteoSponge Strip 50 x 7 x 5mm
109425	OsteoSponge Filler 2.5cc 4–10 mm Chips	109631	OsteoSponge Strip 20 x 14 x 5mm
109550	OsteoSponge Filler 5.0cc 4–10 mm Chips	109632	OsteoSponge Strip 20 x 14 x 7mm
109510	OsteoSponge Filler 10.0cc 4–10 mm Chips	109633	OsteoSponge Strip 26 x 19 x 7mm
109515	OsteoSponge Filler 15.0cc 4–10 mm Chips	109634	OsteoSponge Strip 30 x 10 x 7mm
109530	OsteoSponge Filler 30.0cc 4–10 mm Chips	109635	OsteoSponge Strip 50 x 10 x 7mm
159550	OsteoSponge Filler 5.0cc–Syringe	109636	OsteoSponge Strip 50 x 20 x 7mm
		109637	OsteoSponge Strip 26 x 19 x 7mm - 2 Per pack
		109638	OsteoSponge Strip 26 x 19 x 7mm - 4 Per pack
		109640	OsteoSponge Strip 40 x 15 x 5mm
		109642	OsteoSponge Strip 40 x 15 x 2mm



Performance & Effectiveness

OsteoSponge is processed with a validated method which includes a patented demineralization step engineered to preserve growth factors native to cancellous bone. The efficacy and safety of this processing method has been clinically proven. When utilized in TLIF procedures in the lumbar spine, OsteoSponge has demonstrated fusion rates equivalent to historical controls without any reported complications.¹ OsteoSponge has been successfully utilized in foot and ankle fusion procedures. Both retrospective² and prospective³ data indicate that OsteoSponge can produce fusion rates equivalent to or higher than historic controls. Reported pain and function outcomes were statistically improved over historical controls.

OsteoSponge is the only 100% cancellous DBM product supported by over 7 peer reviewed publications

- Girasole, G. et al., (2013) Transforaminal lumbar interbody fusion rates in patients using novel titanium implant and demineralized cancellous allograft bone sponge. *International Journal of Spine Surgery*, 7: e95-e100.
- Brigido, S. A. et al., (2013) A retrospective analysis evaluating allogenic cancellous bone sponge for foot and ankle arthrodesis. *The Journal of Foot and Ankle Surgery*, 52: 28-31.
- Protzman, N. M. et al., (2014) Biologic augmentation of foot and ankle arthrodesis with an allogenic cancellous sponge. *Orthopedics*, March 37(3): e230-e236.
- Girasole G, Case Presentation on Transforaminal Lumbar Interbody Fusion with OsteoSponge® and BMA (2016) Xtant Medical, Inc.

*Data on file at Xtant Medical.

Figure 1: A Scanning Electron Microscope image of OsteoSponge (56X magnification) demonstrates its open porous structure and large surface area.

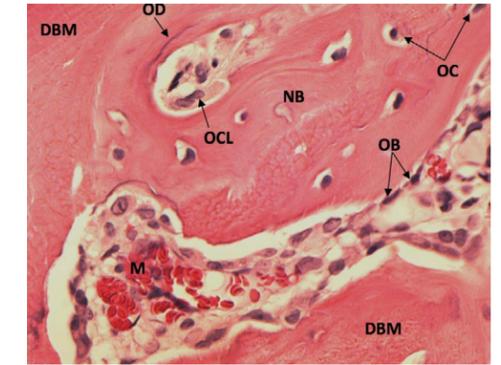
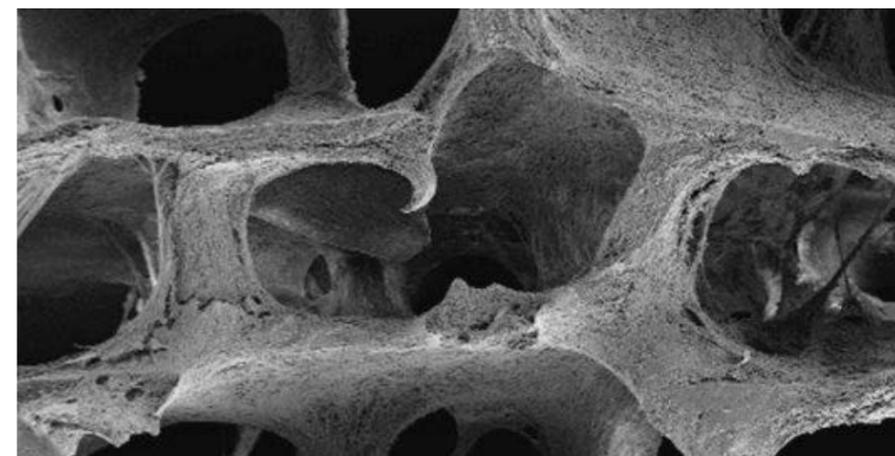


Figure 2: In Vivo Formation 28 Days Post-Implantation of OsteoSponge in an Athymic Rat. (DBM: Residual DBM Implant (OsteoSponge), M: Bone Marrow, NB: New Mature Bone, OB: Osteoblasts, OC: Osteocytes, OCL: Osteoclast, OD: Osteoid)*

Provides a representative histology image of in vivo bone formation of OsteoSponge (H&E Stain, 200X Magnification). Neovascularization, osteoid formation, and new bone growth has been consistently observed in subcutaneous and intramuscular implants of OsteoSponge. These results suggest that in addition to providing an excellent natural scaffold for cellular ingrowth and proliferation, OsteoSponge also contains growth factors.

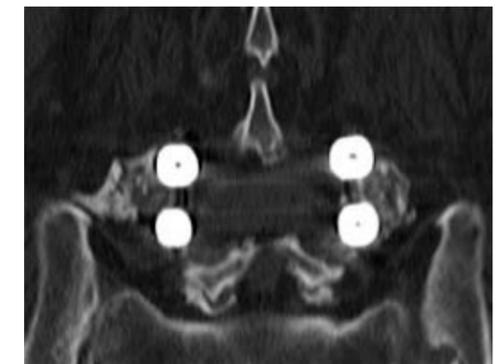


Figure 3: 1 year post-op CT demonstrating solid fusion posterolaterally. 75-year-old female with L4-L5 stenosis and degenerative spondylolisthesis. Surgery involved L4-L5 posterior spinal fusion with OsteoSponge and BMA along with instrumented fixation.⁴

Amniotic Membrane

Dual Layer

Clinical Advantage

Our Dual Layer Amniotic Membrane is produced with unparalleled quality standards. Proprietary processing methods extract the membrane from the placental tissue, leaving only the amniotic membrane layer which is then dehydrated into a sheet-like product. This minimally manipulated process preserves the natural properties of the amniotic membrane and provides clinicians with a flexible sheet that can be utilized in a variety of homologous use spinal applications.

Features & Benefits

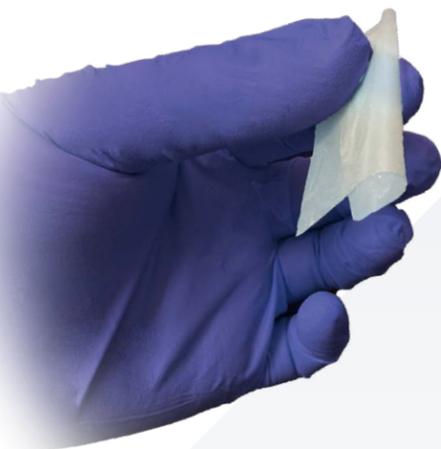
- **Protective covering** – the membrane sheet provides a protective covering that aids in wound management
- **Delivers growth factors** – natural cytokines in the membrane aid in its regenerative and protective traits¹
- **Promotes soft tissue growth** – the extracellular matrix acts as a scaffolding and potentiates the migration and adhesion of resident cells¹
- **Sterility assurance level (SAL) 10⁻⁶** – terminal sterilization ensures the highest level of patient safety

Item

X090-0025-AMN22CM
 X090-0025-AMN23CM
 X090-0025-AMN24CM
 X090-0025-AMN44CM
 X090-0025-AMN46CM
 X090-0025-AMN48CM

Product Name

Dual Layer Amniotic Membrane 2 x 2cm
 Dual Layer Amniotic Membrane 2 x 3cm
 Dual Layer Amniotic Membrane 2 x 4cm
 Dual Layer Amniotic Membrane 4 x 4cm
 Dual Layer Amniotic Membrane 4 x 6cm
 Dual Layer Amniotic Membrane 4 x 8cm



¹ Grzywocz, Z. et al. (2014). Growth factors and their receptors derived from human amniotic cells...

CollagenX™

Advanced Collagen Biobarrier

Features & Benefits

- **Conforms into a protective gel**, ensuring complete coverage across the wound site
- **Low pH environment** supports tissue regeneration and promotes epithelialization

Surgical Areas

- Orthopedic
- Podiatric/Foot & Ankle
- Cardiovascular
- Abdominal
- Neurologic
- Plastics/Breast Recon
- General
- OB/GYN
- Trauma
- Vascular
- Burns
- Ulcers

Indications

- Partial and full thickness wounds
- Pressure (stage I-IV) and venous ulcers
- Ulcers caused by mixed vascular etiologies
- Venous stasis and diabetic ulcers
- 1st and 2nd degree burns
- Cuts, abrasions, and surgical wounds

Properties & Features	CollagenX Surgical Matrix	Leading Competitor
Collagen-Based	✓	✓
Surgical Wound Application	✓	✓
Occlusive Gelatinous Barrier	✓	X
Low pH	✓	X
Absorption	✓	X

Product Description	Product Code
CollagenX Surgical Matrix, 5mL	ColX005



nanOss®

Advanced Bone Graft Substitutes

nanOss® Bone Graft Substitute

Advanced bone graft composed of nano-structured HA granules and an open structured engineered collagen carrier.

Catalog Number Unit Size

90-100-01	1cc
90-100-02	2cc
90-100-05	5cc
90-100-10	10cc
90-100-20	20cc



nanOss Advanced Bone Graft Substitute

nanOss® Loaded Bone Graft Substitute

Pre-filled mixing syringe is a closed system for consistency, sterility, compression, and easy delivery of nanOss. Quickly connecting the bone graft delivery syringe allows for nanOss placement during MIS graft placement.

Catalog Number Unit Size

90-200-05K	5cc Syringe
90-200-10K	10cc Syringe



nanOss Loaded Advanced Bone Graft Substitute



Bone Graft Delivery Syringe

Adapter Cap

nanOss® 3D Plus Bone Graft Substitute

Advanced bone graft composed of nano-structured HA granules suspended in a porous gelatin-based foam matrix.

Catalog Number Unit Size (W x L x H) & Volume

90-400-25504	25 x 50 x 4mm, 5cc
90-400-251004	25 x 100 x 4mm, 10cc
90-400-25508	25 x 50 x 8mm, 10cc
90-400-251008	25 x 100 x 8mm, 20cc



nanOss 3D Plus Advanced Bone Graft Substitute

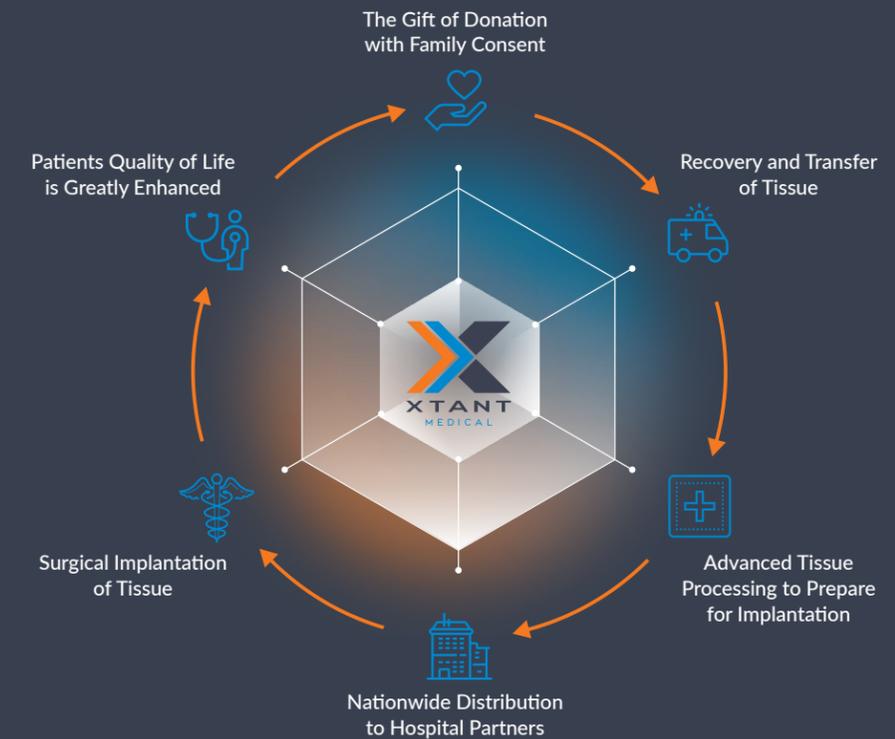
Honoring the Gift

Inspired by The Mission

At Xtant Medical, we are privileged to honor the gift of donation—a selfless act made possible through the consent and generosity of donors and their families. From recovery and screening to design, packaging, and final delivery, we oversee every stage with the utmost care and respect.

The Circle of Life reminds us that this process is never linear—each donor's gift ripples outward, reaching a patient whose life is forever changed. Our commitment to quality and compassion ensures that every graft fulfills its purpose: giving recipients the chance to live more fully.

This is how we honor the gift. This is why we do what we do.



Annual Donor Event

Each year, Xtant Medical employees gather to honor the generosity of donors and their families. This event is a time to reflect on the profound impact of tissue donation and reaffirm our commitment to caring for every gift, so patients can live life to its fullest.

Item #	Product Name	Product Category
109410	OsteoSponge Filler 1.0cc - 4-10mm Chips	DBM
109425	OsteoSponge Filler 2.5cc - 4-10mm Chips	DBM
109550	OsteoSponge Filler 5.0cc - 4-10mm Chips	DBM
109510	OsteoSponge Filler 10.0cc - 4-10mm Chips	DBM
109515	OsteoSponge Filler 15.0cc - 4-10mm Chips	DBM
109530	OsteoSponge Filler 30.0cc - 4-10mm Chips	DBM
159550	OsteoSponge Filler 5.0cc - Syringe - 4-10mm Chips	DBM
109405	OsteoSponge Filler Fine 0.5cc - 1-4mm Chips	DBM
109210	OsteoSponge Filler Fine 1.0cc - 1-4mm Chips	DBM
109225	OsteoSponge Filler Fine 2.5cc - 1-4mm Chips	DBM
109250	OsteoSponge Filler Fine 5.0cc - 1-4mm Chips	DBM
109310	OsteoSponge Filler Fine 10.0cc - 1-4mm Chips	DBM
109315	OsteoSponge Filler Fine 15.0cc - 1-4mm Chips	DBM
109608	OsteoSponge Block 8mm	DBM
109609	OsteoSponge Block 8mm - 10 Per Pack	DBM
109610	OsteoSponge Block 10mm	DBM
109612	OsteoSponge Block 12mm	DBM
109614	OsteoSponge Block 14mm	DBM
109622	OsteoSponge Strip 50 x 7 x 5mm	DBM
109631	OsteoSponge Strip 20 x 14 x 5mm	DBM
109632	OsteoSponge Strip 20 x 14 x 7mm	DBM
109633	OsteoSponge Strip 26 x 19 x 7mm	DBM
109637	OsteoSponge Strip 26 x 19 x 7mm - 2 Per Pack	DBM
109638	OsteoSponge Strip 26 x 19 x 7mm - 4 Per Pack	DBM
109634	OsteoSponge Strip 30 x 10 x 7mm	DBM
109635	OsteoSponge Strip 50 x 10 x 7mm	DBM
109636	OsteoSponge Strip 50 x 20 x 7mm	DBM
109640	OsteoSponge Strip 40 x 15 x 5mm	DBM
109642	OsteoSponge Strip 40 x 15 x 2mm	DBM
109501	OsteoSponge Disc, 10 mm	DBM
109502	OsteoSponge Disc, 12 mm	DBM
109503	OsteoSponge Disc, 14 mm	DBM
309005	OsteoSelect DBM Putty 0.5cc	DBM
309010	OsteoSelect DBM Putty 1.0cc	DBM
309025	OsteoSelect DBM Putty 2.5cc	DBM
309050	OsteoSelect DBM Putty 5.0cc	DBM
309100	OsteoSelect DBM Putty 10.0cc	DBM
359010	OsteoSelect DBM Putty 1.0cc - Syringe	DBM
359025	OsteoSelect DBM Putty 2.5cc - Syringe	DBM
359050	OsteoSelect DBM Putty 5.0cc - Syringe	DBM
359100	OsteoSelect DBM Putty 10.0cc - Syringe	DBM
309425	OsteoSelect Plus DBM Putty 2.5cc	DBM
309450	OsteoSelect Plus DBM Putty 5.0cc	DBM
309500	OsteoSelect Plus DBM Putty 10.0cc	DBM
359425	OsteoSelect Plus DBM Putty 2.5cc - Syringe	DBM
359450	OsteoSelect Plus DBM Putty 5.0cc - Syringe	DBM
359500	OsteoSelect Plus DBM Putty 10.0cc - Syringe	DBM

Item #	Product Name	Product Category
109762	3Demin Cortical Fibers 2.5cc	DBM
109765	3Demin Cortical Fibers 5.0cc	DBM
109760	3Demin Cortical Fibers 10.0cc	DBM
109763	3Demin Cortical Fibers 30.0cc	DBM
109776	3Demin Strip 50 x 10mm - Single	DBM
109775	3Demin Strip 50 x 10mm - 2 Per Pack	DBM
109771	3Demin Strip 100 x 10mm - 2 Per Pack	DBM
109772	3Demin Strip 200 x 10mm - 2 Per Pack	DBM
109785	3Demin Boat 50 x 25mm - 2 Per Pack	DBM
109786	3Demin Boat 50 x 25mm - Single	DBM
109781	3Demin Boat 100 x 25mm - 2 Per Pack	DBM
FBXP0001	Trivium Advanced Bone Graft 1.0cc	DBM
FBXP0025	Trivium Advanced Bone Graft 2.5cc	DBM
FBXP0005	Trivium Advanced Bone Graft 5.0cc	DBM
FBXP0010	Trivium Advanced Bone Graft 10.0cc	DBM
121010	OsteoFactor Allogeneic Proteins S	Allogeneic Proteins
121025	OsteoFactor Allogeneic Proteins M	Allogeneic Proteins
121050	OsteoFactor Allogeneic Proteins L	Allogeneic Proteins
121100	OsteoFactor Allogeneic Proteins XL	Allogeneic Proteins
203201	OsteoVive Plus 1.0cc	Cellular Bone Matrix
203202	OsteoVive Plus 2.0cc	Cellular Bone Matrix
203205	OsteoVive Plus 5.0cc	Cellular Bone Matrix
203210	OsteoVive Plus 10.0cc	Cellular Bone Matrix
203215	OsteoVive Plus 15.0cc	Cellular Bone Matrix
FBX-0001	FibreX Demineralized Bone Fibers 1.0 cc	Demineralized Bone Fibers
FBX-0025	FibreX Demineralized Bone Fibers 2.5 cc	Demineralized Bone Fibers
FBX-0005	FibreX Demineralized Bone Fibers 5.0 cc	Demineralized Bone Fibers
FBX-0010	FibreX Demineralized Bone Fibers 10.0 cc	Demineralized Bone Fibers
90-100-01	nanOss® Bone Graft Substitute 1cc	Bone Graft Substitute
90-100-02	nanOss® Bone Graft Substitute 2cc	Bone Graft Substitute
90-100-05	nanOss® Bone Graft Substitute 5cc	Bone Graft Substitute
90-100-10	nanOss® Bone Graft Substitute 10cc	Bone Graft Substitute
90-100-20	nanOss® Bone Graft Substitute 20cc	Bone Graft Substitute
90-200-05K	nanOss® Loaded Bone Graft Substitute 5cc Syringe	Bone Graft Substitute
90-200-10K	nanOss® Loaded Bone Graft Substitute 10cc Syringe	Bone Graft Substitute
90-400-25504	nanOss® 3D Plus Bone Graft Substitute 25 x 50 x 4mm, 5cc	Bone Graft Substitute
90-400-251004	nanOss® 3D Plus Bone Graft Substitute 25 x 100 x 4mm, 10cc	Bone Graft Substitute
90-400-25508	nanOss® 3D Plus Bone Graft Substitute 25 x 50 x 8mm, 10cc	Bone Graft Substitute
90-400-251008	nanOss® 3D Plus Bone Graft Substitute 25 x 100 x 8mm, 20cc	Bone Graft Substitute

Item #	Product Name	Product Category
X090-0025-AMN22CM	Dual Layer Amniotic Membrane 2 x 2cm	Amniotic Membrane
X090-0025-AMN23CM	Dual Layer Amniotic Membrane 2 x 3cm	Amniotic Membrane
X090-0025-AMN24CM	Dual Layer Amniotic Membrane 2 x 4cm	Amniotic Membrane
X090-0025-AMN44CM	Dual Layer Amniotic Membrane 4 x 4cm	Amniotic Membrane
X090-0025-AMN46CM	Dual Layer Amniotic Membrane 4 x 6cm	Amniotic Membrane
X090-0025-AMN48CM	Dual Layer Amniotic Membrane 4 x 8cm	Amniotic Membrane
ColX005	CollagenX Surgical Matrix, 5mL	Collagen Biobarrier
X094-1010	Atrix-C Cervical Allograft Spacer 7° 11x14x5mm	Precision Milled Allograft
X094-1009	Atrix-C Cervical Allograft Spacer 7° 11x14x6mm	Precision Milled Allograft
X094-1008	Atrix-C Cervical Allograft Spacer 7° 11x14x7mm	Precision Milled Allograft
X094-1007	Atrix-C Cervical Allograft Spacer 7° 11x14x8mm	Precision Milled Allograft
X094-1006	Atrix-C Cervical Allograft Spacer 7° 11x14x9mm	Precision Milled Allograft
X094-1005	Atrix-C Cervical Allograft Spacer 7° 11x14x10mm	Precision Milled Allograft
X094-3000	Atrix-C Union Cervical Allograft Spacer 7° 11x14x5mm	Precision Milled Allograft
X094-3001	Atrix-C Union Cervical Allograft Spacer 7° 11x14x6mm	Precision Milled Allograft
X094-3002	Atrix-C Union Cervical Allograft Spacer 7° 11x14x7mm	Precision Milled Allograft
X094-3003	Atrix-C Union Cervical Allograft Spacer 7° 11x14x8mm	Precision Milled Allograft
X094-3004	Atrix-C Union Cervical Allograft Spacer 7° 11x14x9mm	Precision Milled Allograft
X094-3005	Atrix-C Union Cervical Allograft Spacer 7° 11x14x10mm	Precision Milled Allograft
X094-3006	Atrix-C Union Cervical Allograft Spacer 7° 11x14x11mm	Precision Milled Allograft
X094-3007	Atrix-C Union Cervical Allograft Spacer 7° 11x14x12mm	Precision Milled Allograft
X094-3008	Atrix-C Union Cervical Allograft Spacer 7° 13x16x5mm	Precision Milled Allograft
X094-3009	Atrix-C Union Cervical Allograft Spacer 7° 13x16x6mm	Precision Milled Allograft
X094-3010	Atrix-C Union Cervical Allograft Spacer 7° 13x16x7mm	Precision Milled Allograft
X094-3011	Atrix-C Union Cervical Allograft Spacer 7° 13x16x8mm	Precision Milled Allograft
X094-3012	Atrix-C Union Cervical Allograft Spacer 7° 13x16x9mm	Precision Milled Allograft
X094-3013	Atrix-C Union Cervical Allograft Spacer 7° 13x16x10mm	Precision Milled Allograft
X094-3014	Atrix-C Union Cervical Allograft Spacer 7° 13x16x11mm	Precision Milled Allograft
X094-3015	Atrix-C Union Cervical Allograft Spacer 7° 13x16x12mm	Precision Milled Allograft
109701	OsteoWrap 10 x 10mm	DBM
109702	OsteoWrap 15 x 10mm	DBM
109703	OsteoWrap 15 x 15mm	DBM
109714	OsteoWrap 70 x 40mm	DBM
109715	OsteoWrap 60 x 50mm	DBM
109733	OrbitalWrap 30 x 30 x 2mm	DBM
208000	Achilles Tendon w/Bone Block	Sports Medicine Allograft
208002	Anterior Tibialis Tendon	Sports Medicine Allograft
208003	Posterior Tibialis Tendon	Sports Medicine Allograft
208008	Gracilis Tendon	Sports Medicine Allograft
208011	Semitendinosus Tendon	Sports Medicine Allograft
208015	Peroneus Tendon	Sports Medicine Allograft
208009	Hemi-Patella Tendon	Sports Medicine Allograft
208012	Whole Patella Tendon w/ Quad	Sports Medicine Allograft
208013	Whole Patella Tendon w/o Quad	Sports Medicine Allograft

Item #	Product Name	Product Category
101006	Ilium Tricortical Block 6mm	Traditional Allograft
101007	Ilium Tricortical Block 7mm	Traditional Allograft
101008	Ilium Tricortical Block 8mm	Traditional Allograft
101009	Ilium Tricortical Block 9mm	Traditional Allograft
101010	Ilium Tricortical Block 10mm	Traditional Allograft
101011	Ilium Tricortical Block 11mm	Traditional Allograft
101012	Ilium Tricortical Block 12-14mm	Traditional Allograft
101015	Ilium Tricortical Block 15mm	Traditional Allograft
101016	Ilium Tricortical Block 16-21mm	Traditional Allograft
101022	Ilium Tricortical Block 22-25mm	Traditional Allograft
104205	Unicortical Block 5mm	Traditional Allograft
104206	Unicortical Block 6mm	Traditional Allograft
104207	Unicortical Block 7mm	Traditional Allograft
104208	Unicortical Block 8mm	Traditional Allograft
104209	Unicortical Block 9mm	Traditional Allograft
104210	Unicortical Block 10mm	Traditional Allograft
106040	Fibula Segment 40-100mm	Traditional Allograft
106101	Fibula Segment 101-150mm	Traditional Allograft
105300	Femoral Strut 200mm (Split)	Traditional Allograft
109636MC	OsteoSponge Strip 50mm x 20mm x 7mm	BMA Kit
109775MC	3Demin Strip 50mm x 10mm x 2 Strips	BMA Kit
109771MC	3Demin Strip 100mm x 10mm x 2 Strips	BMA Kit
109785MC	3Demin Boat 50mm x 25mm x 2 Boats	BMA Kit
109560MC	OsteoSponge Filler 60.0cc 1-10mm Chips	BMA Kit



Why Partner with Xtant Medical?

Independent Agent

Like what you see and want to become a distributor for Xtant Medical? Or if you have a recommendation for an Agent that you enjoy working with, please contact us.

You can also stay connected to Xtant Medical by joining our email communication list. Contact marketing@xtantmedical.com to enroll.

We look forward to adding you as part of our online community and making access to information easy.

Follow us!



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[Contact Customer Service](#)

- ✉ CS@xtantmedical.com
- 📞 888.886.9354

National Accounts

National Accounts works with local hospitals, multi-location customers (IDNs), and national supplier contracts (GPOs) to ensure Xtant Medical products are on contract at a fair price.

- ✉ NationalAccounts@xtantmedical.com

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- ✉ Marketing@xtantmedical.com

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Current Xtant Medical agents can access our Online Product Portal. Fill out the form at xtantmedical.com/resources/product-portal. Our portal will provide you with easy access for downloading resources such as published papers, surgical techniques, reimbursement guides, and educational material.

[Access the Product Portal](#)

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This specialized team is a resource for Xtant agents, representatives, and their surgeons. They can provide assistance with training (both in-person and online), sales calls and product information and usage. Medical Education is a key component in the successful use of our comprehensive portfolio.

- ✉ Distributor.development@xtantmedical.com



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🌐 xtantmedical.com

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Records on file at Xtant Medical.