Trusted Clinical Solutions

Biomaterials
Portfolio

ZimVie


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The Power of Puros Allografts

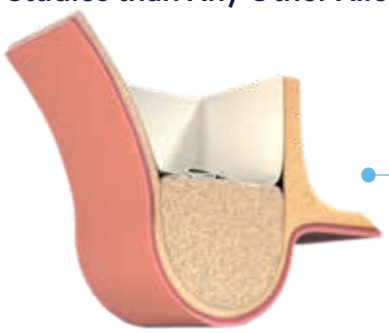
Bone Augmentation Materials

Clinicians around the globe have counted on the Puros family of allografts for hard tissue augmentation procedures for years.

The brand's renowned reputation is based on:*

- Predictable processing and configuration
- Clinically used in dentistry since 1999[1-3]
- Backed up by more than 400 scientific articles[1-5]
- Allowing for creation of healthy, vital bone[6-9]
- Predictable remodeling shown in human clinical studies[10-15]
- Easy-to-use, terminally sterilized[16]
- Quick hydration, five-year shelf life and storage at room temperature[16]

More Studies than Any Other Allograft[5]



Up to **127 %** more vital bone formation compared to non resorbable xenograft in sinus lift procedures.[10]

Visual Comparison of Puros Cancellous Allograft to Natural Bone in SEM Image

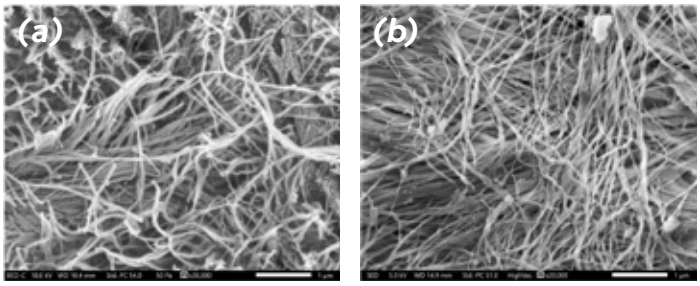


Fig. 1

SEM images at 20,000x magnification of:
(a) Bone**
(b) Puros Cancellous Allograft

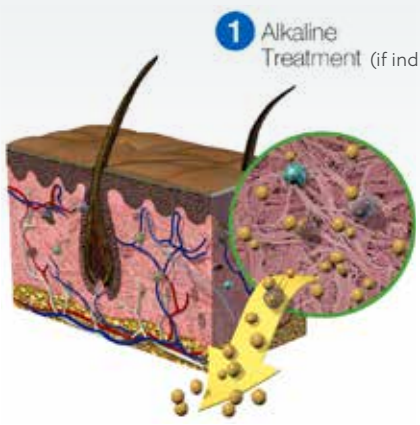
** Osteoclast-resorbed surface of human bone received unfixed, disinfected in 70% ethanol, air-dried, and rinsed in PBS.

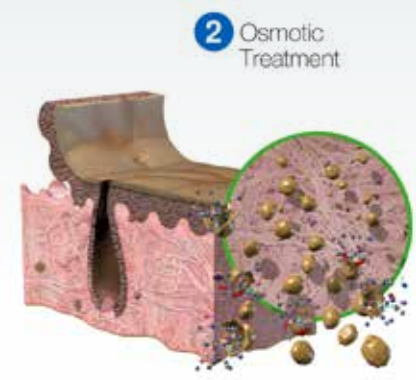
The collagen fibrils are visible for Puros Cancellous Allograft following Tutoplast® Processing and are similar to those seen in natural bone.[19]

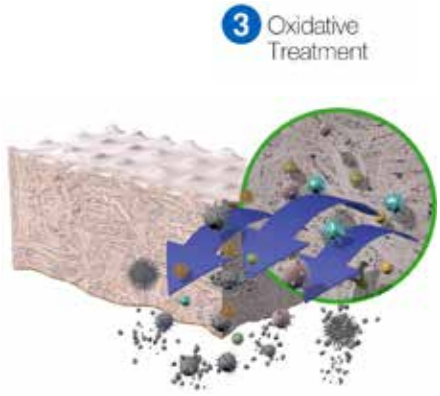
* Claims referenced apply to Tutoplast processed products.

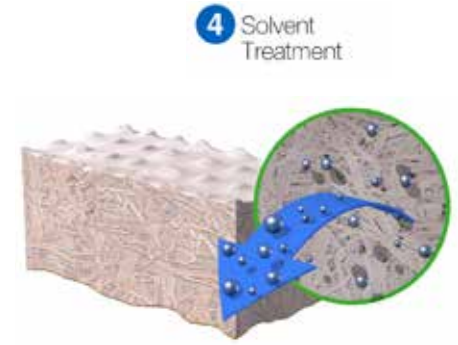
The Proprietary Tutoplast Process

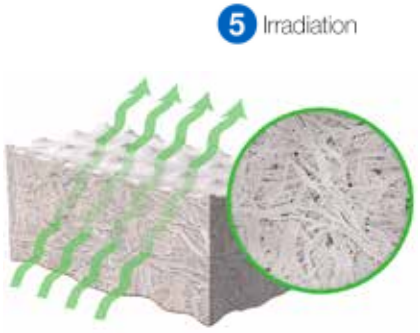
In 1969 the Tutoplast Tissue Sterilization Process was developed to sterilize and preserve tissue for implantation. More than 11 million implants have been sterilized through the Tutoplast Process with zero confirmed incidence of implant-associated infection.[17]











The Benefits of the Multi-Step Tutoplast Process

For allograft bone grafts, the process preserves the valuable bone mineral, collagen matrix, and tissue integrity [18] while inactivating pathogens and gently removing unwanted materials, such as cells, antigens, and viruses [17] – resulting in predictable, reliable, sterile, and safe tissue.[17]

*Images depict dermal processing

1. Gambini A. et al. Chir Organi Mov (1999) 84:359-66. **2.** Rocci A. et al. Quintessence International, Edizione Italiana (1999) 15:373-380. **3.** Semergidis T. et al. Int. J. Oral Maxillofac Surg (1999) 28:91. **4.** Baldi D. et al. Implant Dent (2019) 28:472-477. **5.** Pubmed search (May 2024). **6.** Tsao Y.P. et al. J Periodontol (2006) 77:416-25. **7.** Leonetti J.A. et al. Implant Dent (2003) 12:217-226. **8.** Keith J.D. et al. Int J Periodont Rest (2006) 26:321-327. **9.** La Monaca G. et al. Case reports in dentistry (2019) 8, Article ID 6725351. **10.** Froum S.J. et al. Int J Periodont Rest (2006) 26:543-51. **11.** Noumbissi S.S. et al. J Oral Implantol (2005) 31:171-9. **12.** Block M.S. et al. J Am Dent Assoc (2002) 133:1631-1638. **13.** Minichetti J.C. et al. J Oral Implantol (2004) 30:74-82. **14.** Schmitt C.M. et al. Clin Oral Implants Res (2013) 24:576-85. **15.** Soardi C.M. et al. Int J Oral Maxillofac Implants (2016) 31:352-8. **16.** Puros Allograft IFU latest revision. **17.** Data on File with RTI Surgical, Inc. **18.** Tadic D. et al. Biomaterials (2004) 25:987-94. **19** Ajami E, et al. J Oral Implantol (2023) 38:169-180.

Puros Cortical

Particulate Allograft

Key Benefit:

Puros Cortical Particulate Allograft can be used in space maintenance and volume enhancement procedures.[1, 2] It is slow-resorbing and maintains an open network for the proliferation of bone-forming cells.[1, 3]

Clinical Advantages

- Without sacrificing ridge contour, cortical particles remodel into a dense, lamellar structure, as well as viable bone—with similar density to native bone[4]
- Ø 2 mm in buccal bone thickness when used in a "sandwich" technique for the treatment of localized buccal dehiscence defects[4]
- 40 % mineralized bone and 0,47 % residual grafting materials after 4 months healing time in sinus lift procedures[5]
- Clinical and radiographic graft stability after 5 years follow up in sinus lift procedures.[6]
- Reduced vertical and horizontal bone resorption when used in immediate implant placement extraction sites[7]

Shown Clinically Successful In:

- Sinus augmentation[3,5,8,9]
- Alveolar ridge augmentation[2,10,11]
- "Tenting" and "sandwich" grafting techniques[12-16]
- Immediate implant post extraction sockets[7]

PUROS CORTICAL PARTICULATE ALLOGRAFT

Item Number	Description
67271	Puros Cortical Particles, 0.25–1 mm/0.5 cc
67272	Puros Cortical Particles, 0.25–1 mm/1 cc
67273	Puros Cortical Particles, 0.25–1 mm/2 cc
67274	Puros Cortical Particles, 1–2 mm/0.5 cc
67275	Puros Cortical Particles, 1–2 mm/1 cc
67276	Puros Cortical Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Wang H.L. et al. Implant Dent (2006) 15:8-17. **2.** El Chaar E. et al. Int J Periodontics Restorative Dent (2019) 39:491-500. **3.** Berberi A. et al. Journal of Maxillofacial and Oral Surgery (2015) 14:624-629. **4.** Park S.H. et al. Int J Periodont. Rest (2006) 26:589-95. **5.** Berberi A. et al. Implant Dent. (2016) 25:353-60. **6.** Annibali S. et al. Implant Dent (2011) 20:445-54. **7.** Orti V. et al. J Periodontal Implant Sci (2016) 46:291-302. **8.** Soardi C.M. et al. Int J Periodontics Restorative Dent (2020) 40:757–764. **9.** Monje A. et al. Int J Oral Maxillofac Implants (2017) 32:121-127. **10.** Abed P.F. et al. J Int Acad Periodontol (2020) 22:11-20. **11.** Wen S. et al. Int J Periodontics Restorative Dent (2018) 38:79. **12.** Leong D.J. et al. Implant Dent (2015) 24:4-12. **13.** Fu J.H. et al. Clin Oral Implants Res (2014) 25:458-67. **14.** Fu J.H. et al. Clin Oral Implants Res (2014) 26:1150-7. **15.** Fu J.-H. et al. Clin Adv Periodontics (2012) 2:172-177. **16.** Lee A. et al. Implant Dent (2009) 18:282-90.

Puros Cancellous

Particulate Allograft

Key Benefit:

Puros Cancellous Particulate Allograft with a history of documented clinical results, is an easy-to-handle choice for predictable bone regeneration and acts as an osteoconductive scaffold for new bone formation.[1-8]

Clinical Advantages

- Up to 127 % more vital bone formation compared to non-resorbable xenograft in sinus lift procedures[2,3,9]
- Newly formed vital bone after 3 to 5 months[4,8,10] in extraction sockets
- 56 % more graft-to-bone contact compared to non-resorbable xenograft[3]
- Ø 9,7 mm vertical gain after 4 to 5 months when using Puros Allograft particulates with tenting screws[11]
- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, and original porosity,[1-6,8,12-14] enabling the ingrowth of vascular and cellular connective tissue[4]

Shown Clinically Successful In:

- Regeneration of periodontal bone and furcation defects[1,6,15]
- Regeneration of extraction sockets[4,7,8,10]
- Regeneration of gaps around block grafts[12,13]
- Horizontal alveolar ridge augmentation[16-19]
- Sinus augmentation[2,9,20,21]

PUROS CANCELLOUS PARTICULATE ALLOGRAFT

Catalog No.	Description
67210	Puros Cancellous Particles, 0.25–1 mm/0.5 cc
67211	Puros Cancellous Particles, 0.25–1 mm/1 cc
67209	Puros Cancellous Particles, 0.25–1 mm/2 cc
67212	Puros Cancellous Particles, 1–2 mm/0.5 cc
67213	Puros Cancellous Particles, 1–2 mm/1 cc
67214	Puros Cancellous Particles, 1–2 mm/2 cc
67215	Puros Cancellous Particles, 1–2 mm/3 cc

Shelf-life: Five (5) years

1. Tsao Y.P. et al. J Periodontol (2006) 77:416-25. **2.** Froum S.J. et al. Int J Periodontics Restorative Dent (2006) 26:543-51. **3.** Noumbissi S.S. et al. J Oral Implantol (2005) 31:171-9. **4.** Minichetti J.C. et al. J Oral Implantol (2004) 30:74-82. **5.** Data on File with RTI, Surgical Inc. **6.** Dayi E. et al. J Int Med Res (2002) 30:168-73. **7.** Baldi D. et al. Implant Dent (2019) 28:472-477. **8.** Block M.S. et al. J Am Dent Assoc (2002) 133:1631-1638. **9.** Schmitt C.M. et al. Clin Oral Implants Res (2013) 24:576-85. **10.** Beck T.M. et al. J Periodontol (2010) 81:1765-72. **11.** Le B. et al. J Oral Maxillofac Surg (2010) 68:428-435. **12.** Keith J.D. et al. Int J Periodontics Restorative Dent (2006) 26:321-327. **13.** Leonetti J.A. et al. Implant Dent. (2003) 12:217-226. **14.** Tadic D. et al. Biomaterials (2004) 25:987-94. **15.** Reddy B. et al. Journal of International Society of Preventive and Community Dentistry (2016) 6:248-253. **16.** Block M.S. et al. J Oral Maxillofac Surg (2004) 62:67-72. **17.** Le B. et al. Implant Dent (2008) 17:40-50. **18.** Ronda M. et al. Clin Oral Implants Res (2014) 25:859-66. **19.** La Monaca G. et al. Case reports in dentistry (2019) 8, Article ID 6725351. **20.** Soardi C.M. et al. Int J Periodontics Restorative Dent (2020) 40:757–764. **21.** Monje A. et al. Int J Oral Maxillofac Implants (2017) 32:121-127.

Puros Blend

Particulate Allograft

Key Benefit:

Puros Blend Particulate Allograft is an anatomic-based mix of cortical and cancellous bone particulate which combines the space maintenance of cortical bone and the rapid remodelling of cancellous bone.[1]

Clinical Advantages

- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern and original porosity[2]
- Easy handling—quick rehydration, 5-year shelf life and room-temperature storage[3]
- No need to mix on-site
- Single-donor vials

Shown Clinically Successful In:

- Augmentation around implants[3]
- Alveolar ridge augmentation/reconstruction[3]
- Sinus lifts[3]

PUROS BLEND PARTICULATE ALLOGRAFT

Catalog No.	Description
67800	Puros Blend Particulate, 0.25–1 mm/0.5 cc
67801	Puros Blend Particulate, 0.25–1 mm/1 cc
67802	Puros Blend Particulate, 0.25–1 mm/2 cc
67803	Puros Blend Particulate, 1–2 mm/0.5 cc
67804	Puros Blend Particulate, 1–2 mm/1 cc
67805	Puros Blend Particulate, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Soardi C.M. et al. Clin Oral Implants Res (2011) 22:560-6. **2.** Data on File with RTI Surgical Inc. **3.** Puros Allograft IFU latest revision.

Puros Bone Blocks and Cancellous Dowel

Bone Allograft

Key Benefit:

By eliminating the need to harvest an autogenous block graft, Puros Block Allografts may save time, help to reduce pain and can shorten the patient's rehabilitation period.[1]

Clinical Advantages

- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern and original porosity[2,3]
- A second surgery to harvest bone is usually not necessary
- Implants can be placed 5 to 6 months post-grafting[2,4]
- Clinical data showing comparable results to grafting with autogenous bone blocks[1,5,6]
- Restores volume to severely resorbed ridges effectively as shown after 9 years follow up[1,2,4,7]

Shown Clinically Successful In:

- Horizontal bone grafting[1,2,8,9]
- Vertical bone grafting[4,5]

Puros Allograft Block

Puros Allograft Cancellous Dowel

PUROS ALLOGRAFT BONE BLOCKS AND PUROS ALLOGRAFT CANCELLOUS DOWEL

Catalog No.	Description
67220	Puros Block Allograft, 15 x 10 x 9 mm
67221	Puros Block Allograft, 15 x 15 x 9 mm
67222	Puros Allograft Cancellous Block, 8 x 8 x 8 mm
67223	Puros Allograft Cancellous Block, 10 x 10 x 20 mm
67224	Puros Allograft Cancellous Block, 10 x 20 x 20 mm
67225	Puros Allograft Cancellous Dowel, Ø 7 mm, L 14–18 mm
67226	Puros Allograft Cancellous Dowel, Ø 10 mm, L 16–20 mm

Shelf-life: Five (5) years

Puros Allograft Cancellous Block

1. Schlee M. et al. Head & Face Medicine (2014) 10:21. **2.** Keith J.D. et al. Int J Periodontics Restorative Dent (2006) 26:321-327. **3.** Tadic D. et al. Biomaterials (2004) 25:987-94. **4.** Leong D.J. et al. Implant Dent (2015) 24:4-12. **5.** Laino L. et al. Biomed Res Int (2014) 2014:982104. **6.** Motamedian S.R. et al. Ann Maxillofac Surg (2016) 6:78-90. **7.** Bauchet T. Implant (2020) 26:1-8. **8.** Jacotti M. et al. Implant Dent (2012) 21:444-8. **9.** Tresguerres F.G.F. et al. Clin Implant Dent Relat Res (2019) 21:1087-1098.

CopiOs Cancellous

Bovine Particulate Xenograft

Key Benefit:

CopiOs Xenograft does not undergo thermal treatment during processing, for this reason CopiOs Xenograft will be remodeled into newly formed vital bone after a period of time.[1, 2]

Clinical Advantages

Retains osteoconductive properties due to the preservation of the original bovine bone matrix collagen and mineral composition, trabecular pattern and original porosity[3]

- Biocompatible and well-tolerated as shown in animal and human studies[2,4,5,6]
- Ability to remodel into vital bone[2,6,7]
- Proven performance in large and small bone defects[2,5,8]

Shown Clinically Successful In:

- Regeneration of periodontal bone defects[9,10]
- Grafting procedures around immediate placed implants[8,9,11]
- Alveolar ridge augmentation[5,9,12]

COPIOS CANCELLOUS PARTICULATE XENOGRAFT

Item Number	Description
97200	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/0.5 cc
97201	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/1 cc
97202	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/2 cc
97210	CopiOs Cancellous Particulate Xenograft, 1–2 mm/0,5 cc
97211	CopiOs Cancellous Particulate Xenograft, 1–2 mm/1 cc
97212	CopiOs Cancellous Particulate Xenograft, 1–2 mm/2 cc

Shelf-life: Five (5) years

CE 2797

1. Data on File with RTI Surgical Inc. **2.** Tudor C. et al. Oral Surg Oral Med O (2008) 105:430-436. **3.** Tadic D. et al. Biomaterials (2004) 25:987-94. **4.** Trentz O.A. et al. Biomaterials (2003) 24:3417-26. **5.** Perret F. et al. Int J Periodontics Restorative Dent (2018) 39:97-105. **6.** Thorwarth M. et al. Br J Oral Maxillofac Surg (2007) 45:41-7. **7.** Günther K.P. et al. Osteologie (1996) 5:4-12. **8.** Peron C. et al. Int J Periodontics Restorative Dent (2020) 40:417-424. **9.** CopiOs Xenograft Particulates IFU latest revision. **10.** Stavropoulos A. et al. J Periodontol (2011) 82:462-470. **11.** Longoni S. et al. J Osseointegration (2016) 8:8-13. **12.** Marei H.F. et al. Egypt Dent J (2017) 63:2281-2288.

Endobon Xenograft

Bovine Xenograft Granules

Key Benefit:

An essentially non-resorbable material that is suited for regeneration of defects when effective space maintenance is required.[1]

Clinical Advantages

- Fully deproteinized bovine-derived hydroxyapatite[2]
- Non-resorbable for predictable volume stability and maintenance[3]
- Osteoconductive due to the interconnecting micro and macro pores for bony integration, which facilitate graft stability and vascular ingrowth[1]
- Xenograft particles will be surrounded by newly formed vital bone[4]

Shown Clinically Successful In:

- Filling defects after resection, cystectomy, apicoectomy or other defects in the alveolar ridge or wall[5,6]
- Peri-implant defects[7-9]
- Alveolar ridge augmentation, including the contouring augmentation of defects in the aesthetic area[1,10,11]
- Extraction socket grafting[12]
- Sinus elevation[4,13]

ENDOBON XENOGRAFT GRANULES

Catalog No.	Particle Size	Description
ROX05	Small Particles	Endobon Xenograft Granules, 0.5–1 mm/0.5 ml
ROX10	Small Particles	Endobon Xenograft Granules, 0.5–1 mm/1 ml
ROX20	Small Particles	Endobon Xenograft Granules, 0.5–1 mm/2 ml
ROXLG20	Large Particles	Endobon Xenograft Granules, 1–2 mm/2 ml
ROXLG50	Large Particles	Endobon Xenograft Granules, 1–2 mm/5 ml (5 units @ 1 ml each)
ROXLG80	Large Particles	Endobon Xenograft Granules, 1–2 mm/8 ml (8 units @ 1 ml each)

Shelf-life: 18 months

1. Block M.S. et al. J Oral Maxillofac Surg (2013) 71:1513-1519. **2.** Tadic D. et al. Biomaterials (2004) 25:987-94. **3.** Block M.S. et al. J Oral Maxillofac Surg (2012) 70:1321-1330, **4.** Nevins M. et al. Int J Periodontics Restorative Dent (2011) 31:227-35. **5.** Endobon Xenograft IFU latest revision. **6.** Block M.S. J Oral Maxillofac Surg (2018) 77:690-697. **7.** De Angelis N. et al. Eur J Oral Implantol (2011) 4:313-25. **8.** Renvert S. et al. J Clin Periodontol (2018) 45:1266-1274. **9.** Negri B. et al. Quintessence Int. (2016) 47:123-139. **10,** Barone A. et al. Int J Periodontics Restorative Dent (2013) 33:795-802. **11.** Castillo R.a.D. Inside Dent (2011) 7:94-96. **12.** Fischer K.R. et al. Int J Periodontics Restorative Dent (2018) 38:549-556. **13.** Testori T. et al. Int J Periodontics Restorative Dent (2012) 32:295-301.

RegenerOss Resorbable Xenograft

Porcine Anorganic Bone Mineral

Key Benefit:

RegenerOss Resorbable Xenograft has up to 95% porosity[1] enabling osteoconductivity and adequate space for new bone formation.

Clinical Advantages

- Osteoconductive surface and interconnecting macro and microscopic porous structure that support the formation and ingrowth of new bone at the implantation site[2,3]
- Clinical results showing new bone formation, both around and within the particles[4]
- Porcine-derived carbonate apatite shows superior osteoconductive potential than hydroxyapatite[5, 6]
- Resorption and remodelling profiles are closer to human bone than those of synthetic bone graft substitutes[6]
- Designed for an easy-to-use syringe

Shown Clinically Successful In:

- Augmentation around implants[3]
- Alveolar ridge augmentation/reconstruction[3, 7]
- Sinus lifts[3]
- Extraction sockets[4, 8-10]
- Periodontal defects[3]

REGENEROSS RESORBABLE XENOGRAFT

Item Number	Description
ROXR05	RegenerOss Resorbable Xenograft, 0.25–1 mm/0.5 cc
ROXR10	RegenerOss Resorbable Xenograft, 0.25–1 mm/1.0 cc
ROXR20	RegenerOss Resorbable Xenograft, 0.25–1 mm/2.0 cc
ROXR40	RegenerOss Resorbable Xenograft, 0.25–1 mm/4.0 cc
ROXRLG10	RegenerOss Resorbable Xenograft, 1–2 mm/1.0 cc
ROXRLG20	RegenerOss Resorbable Xenograft, 1–2 mm/2.0 cc
ROXRS025	RegenerOss Resorbable Xenograft, Syringe, 0.5–1 mm/0.25 cc
ROXRS05	RegenerOss Resorbable Xenograft, Syringe, 0.5–1 mm/0.5 cc

Shelf-Life Small and Large Particles: Three (3) years
Shelf-Life Syringe: Two (2) years

1. Data on File with Collagen Matrix Inc. **2.** Klenke F.M. et al. J Biomed Mater Res A (2008) 85A:777-786. **3.** RegenerOss Xenograft IFU latest revision. **4.** Guarnieri R. et al. Regen Biomater (2017) 4:125-128. **5.** Spence G. et al. J Biomed Mater Res A (2009) 90A:217-224. **6.** Ellies L.G. et al. J Biomed Mater Res (1988) 22:137-48. **7.** Cucchi A. et al. J. Oral Implantol. (2019) 45:59-64. **8.** Guarnieri R. et al. J Oral Maxillofac Res (2019) 10:e3. **9.** Guarnieri R. et al. J Oral Maxillofac Res (2017) 8:e5. **10.** Lai V.J. et al. J Periodontol (2020) 91:361-368.

IngeniOs HA

Synthetic Bone Particles

Key Benefit:

Long-lasting IngeniOs HA Synthetic Bone Particles made of pure-phase hydroxyapatite (HA), a composition similar to HA found in naturally-occurring bone.[1]

Clinical Advantages

- Significantly higher cell attachment was seen with IngeniOs HA compared to Geistlich Bio-Oss at all time points in an in-vitro study[2]
- Long-lasting[1] osteoconductive support with negligible resorption to provide long-term graft stability and maintenance of volume
- Up to 80% interconnected porosity allowing for vascularized bone formation, osseointegration and the natural remodeling process to occur within the graft framework[3,4]
- Radiopacity of material making it easy to identify on an x-ray[4]
- Can be used[4] as a bone graft extender to provide radiopacity or long-term volume preservation

Shown Clinically Successful In:

- Alveolar ridge augmentation/ reconstruction[1,4]
- Sinus lifts[1, 4]
- Defects after removal of bone cysts[1,4]
- Extraction sockets[4]

INGENIOS HA SYNTHETIC BONE PARTICLES

Catalog No.	Description
0-802501	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/0.25 cc
0-800501	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/0.5 cc
0-801001	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/ 1 cc
0-802001	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/2 cc
0-900501	IngeniOs HA Synthetic Bone Particles, 1–2 mm/0.5 cc
0-901001	IngeniOs HA Synthetic Bone Particles, 1–2 mm/1 cc
0-902001	IngeniOs HA Synthetic Bone Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Holweg A. et al. EDI Journal (2012) 3:64-73. **2.** Bernhardt A. et al. Clin Oral Implants Res (2011) 22:651-7. **3.** Data on File with Curasan Ag. **4.** IngeniOs HA Synthetic Bone Particles IFU latest revision.

IngeniOs ß-TCP

Bioactive Synthetic Bone Particles

Key Benefit:

Resorbable IngeniOs ß-TCP Bioactive Synthetic Bone Particles made of pure-phase beta tricalcium phosphate (ß-TCP) that is silicated, providing the potential for increased bioactivity.[1-3]

Clinical Advantages

Fully resorbable material designed to resorb in balance with replacement by naturally-regenerating mineralized bone[3]

- Up to 75% interconnected porosity to enable ingrowth of healthy bone tissue[1,3]
- Radiopacity of material making it easy to identify on an X-ray[3]

Shown Clinically Successful In:

- Alveolar ridge augmentation/reconstruction[3]
- Sinus lifts[3]
- Filling of defects after root resection, apicectomy and cystectomy[6]
- Extraction sockets[3]
- Periodontal defects[3]

INGENIOS SS-TCP BIOACTIVE SYNTHETIC BONE PARTICLES

Item Number	Description
0-602501	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/0.25 cc
0-600501	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/0.5 cc
0-601001	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/1 cc
0-602001	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/2 cc
0-700501	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 1–2 mm/0.5 cc
0-701001	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 1–2 mm/1 cc
0-702001	IngeniOs ß -TCP Bioactive Synthetic Bone Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Data on File with Curasan Ag. **2.** Pietak A.M. et al. Biomaterials (2007) 28:4023-32. **3.** IngeniOs ß-TCP Bioactive Synthetic Bone Particles IFU latest revision.

Puros Customized Blocks

Bone Allograft

Key Benefit:

Puros Allograft Customized Blocks are produced using Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) technology based on a CBCT/CT scan of the defect area. This makes the procedure more comfortable for your patient by reducing surgery time and minimizing the risk of complications.[1]

Clinical Advantages

- Customized block fits precisely and congruently to the defect[2]
- Large contact surface area improves ingrowth of blood vessels and revascularization[3]
- Additional manual adjustment of the defect and of the customized block is seldomly required, allowing for reduced surgery time and reduced morbidity[4]
- Clinical reports have shown stable bone levels up to 2 years follow-up after implant placement[5, 6]

Shown Clinically Successful In:

- Horizontal ridge reconstruction[2,5,6]

PUROS ALLOGRAFT CUSTOMIZED BLOCK

Catalog No.	Description
67217	Puros Allograft Customized Block Standard, 27 x 15 x 15 mm max
67218	Puros Allograft Customized Block Large, 27.1 x 15.1 x 15.1 mm min - 60 x 30 x 30 mm max

Shelf-life: Five (5) years

1. Schlee M. et al. Implant Dent (2013) 22:212-8. **2.** Würzler K.K. et al. Implantologie Journal (2015) 5:30-36. 3.Mcallister B.S. et al. J Periodontol (2007) 78:377-96. **4.** Parthasarathy J. Ann Maxillofac Surg (2014) 4:9-18. **5.** Engler-Hamm D. Implantologie (2018) 26:231-242. **6.** Blume O. et al. J Esthet Restor Dent (2018) 30:474-479.

AccuraMesh and AccuraPlate

Guided Bone Regeneration

Key Benefit:

AccuraMesh and AccuraPlate products are designed using a fully digital workflow. Data from 3D medical imaging devices combined with modern Computer-Aided Design (CAD) software and state-of-the-art Computer-Aided Manufacturing (CAM) processes result in high quality customized medical devices for guided bone regeneration procedures.[1]

Clinical Advantages

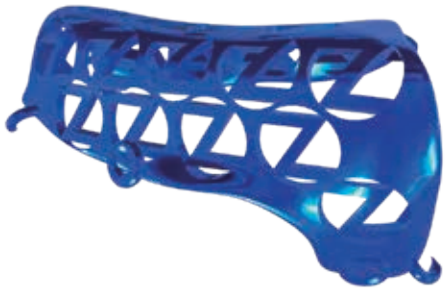
- AccuraMesh and AccuraPlate are CAD/CAM manufactured to fit precisely to the defect site[2]
- 2 material options available, surgical grade PEEK and Titanium (Titanium for AccuraMesh only)
- Pre-planned screw positions for reliable fixation
- Sterile packaged (ETO sterilized): 10^{-6} Sterility assurance level[3-5]
- Additional manual adjustment of the bone bed or of the Accura products is seldomly required[2, 6]
- Reduced surgery time and morbidity[2,7]

AccuraPlate Is Typically used In:

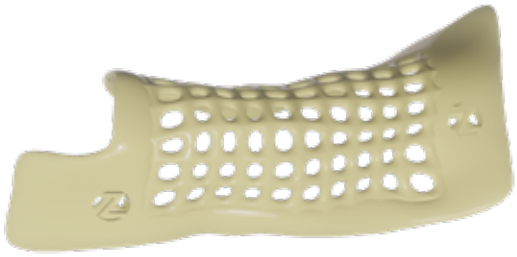
- Regeneration of horizontal bone defects[5]

AccuraMesh Is Typically used In:

- Regeneration of horizontal and/or vertical bone defects[1,3,4]



Titanium AccuraMesh



PEEK AccuraMesh

PEEK AccuraPlate

ACCURAMESH PRODUCTS

Item Number	Description
TICMS	Titanium AccuraMesh Standard (up to 6 missing teeth)
TICML	Titanium AccuraMesh Large (7 or more missing teeth)
PCMS	PEEK AccuraMesh Standard (up to 6 missing teeth)
PCML	PEEK AccuraMesh Large (7 or more missing teeth)

Shelf-life: Six (6) months[8]

ACCURAPLATE PRODUCTS

Item Number	Description
PCPS	PEEK AccuraPlate Standard (up to 4 missing teeth)
PCPL	PEEK AccuraPlate Standard (5 or more missing teeth)

Shelf-life: Six (6) months[8]

1. Cruz N. et al. Materials (2020) 13:2177. **2.** Lehman H. et al. Int J Oral Maxillofac Implants (2014) 29:e259-64. **3.** Titanium AccuraMesh IFU latest revision. **4.** PEEK AccuraMesh IFU latest revision. **5.** PEEK AccuraPlate IFU latest revision. **6.** Parthasarathy J. Ann Maxillofac Surg (2014) 4:9-18. **7.** El Chaar E. et al. Int J Periodontics Restorative Dent (2019) 39:491-500. **8.** Data on file with ResDevMed

CopiOs Pericardium

Xenograft Membrane

Key Benefit:

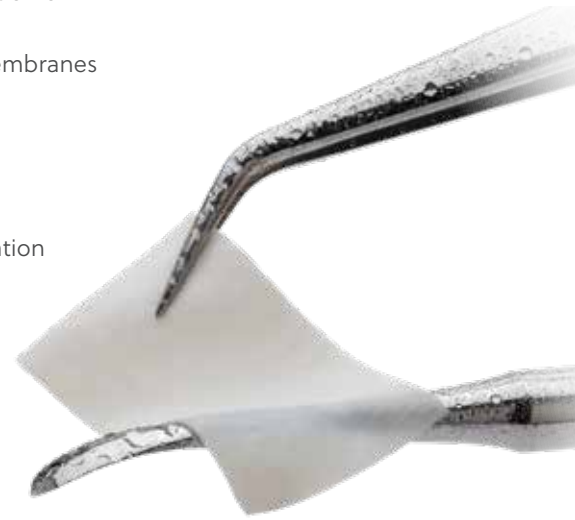
CopiOs Pericardium Membrane is a long-lasting, conformable barrier—strong enough to meet most clinical needs and supple enough to adapt to challenging graft contours.[1-4]

Clinical Advantages

- Made of bovine pericardium[5]
- Barrier time 8–24 weeks: for longer graft protection and stabilization[1,6,7]
- Not side specific for convenient handling[8]
- Retains the structure and composition of natural pericardial tissue due to the proprietary Tutoplast process[9,10]
- High tensile strength and suture pull-out force may be useful for guided bone regeneration techniques[7]
- Clinically demonstrated performance in guided bone regeneration procedures where ease of manipulation and adaptability to surface contours is essential[11-14]
- Shown to provide a stable, long-lasting barrier during healing and integration of bone graft materials, and staged or immediately placed implants[12,15-17]
- Significantly thicker buccal bone plate when using CopiOs Pericardium Membranes to cover bone graft during implant placement[12,18]

Shown Clinically Successful In:

- Guided tissue regeneration (GTR) in periodontology[5,19]
- Covering and protecting bone graft material, e.g. in guided bone regeneration procedures (GBR)[5,11,12]



COPIOS PERICARDIUM MEMBRANE

Catalog No.	Description
97002	CopiOs Pericardium Membrane, 15 x 20 mm
97003	CopiOs Pericardium Membrane, 20 x 30 mm
97004	CopiOs Pericardium Membrane, 30 x 40 mm

Shelf-life: Five (5) years

CE 2797

1. Rothamel D. et al. Clin Oral Implants Res (2005) 16:369-78. **2.** Data on file with RTI Biologics Inc, USA. **3.** Leong D.J. et al. Implant Dent (2015) 24:4-12. **4.** Berberi A. et al. J Maxillofac Oral Surg (2015) 14:263-70. **5.** CopiOs Pericardium Membrane IFU latest revision. **6.** Siar C.H. et al. Clin Oral Implants Res (2011) 22:113-20. **7.**Gasser A. et al., Mechanical stability of collagen membranes: an in vitro study, in AADR/CADR Meeting. 2016: Los Angeles. **8.** Data on File with Zimmer Biomet Dental. **9.** Marashdeh M.Q.M., Characterization and Development of Optimization Strategy for the Processing of Allogenic and Xenogenic Bone and Pericardium. 2007, Thesis, University of Erlangen-Nürnberg. **10.** Kasaj A. et al. Head Face Med (2008) 4:22. **11.** El Chaar E. et al. J Oral Implantol (2017) 43:114-124. **12.** Fu J.H. et al. Clin Oral Implants Res (2014) 25:458-67. **13.** Soardi C.M. et al. Clin Adv Periodontics (2013) 4:1-7. **14.** Fu J.-H. et al. Clin Adv Periodontics (2012) 2:172-177. **15.** Sterio T.W. et al. Int J Periodontics Restorative Dent (2013) 33:499-507.**16.** Le B. et al. J Oral Maxillofac Surg (2016) 74:1552-61.**17.** Laino L. et al. Biomed Res Int (2014) 2014:982104. **18.** Garaicoa C. et al. Clin Implant Dent Relat Res (2015) 17:717-23. **19.** Schlee M. et al. Head Face Med (2012) 8:6.

CopiOs Extend

Collagen Membrane

Key Benefit:

CopiOs Extend Membrane is a long-lasting, resorbable collagen membrane designed to allow implant placement while providing ample time[1] for regeneration.

Clinical Advantages

- Made of highly purified porcine dermis[1]
- Barrier time 6–9 months[1]
- Not side specific for convenient handling[1]
- Cell-occlusive – allows nutrients to permeate while occluding epithelial cells[2]
- Designed for convenient handling – conformable and easy to reposition in the defect
- Performs when primary closure has not been achieved[3]

Shown Clinically Successful In:

- Augmentation around implants placed in immediate and delayed extraction sockets[1]
- Localized ridge augmentation for later implantation[1]
- Alveolar ridge reconstruction for prosthetic treatment[1]
- Filling of bone defects[1]
- Guided bone regeneration in dehiscence defects[1]
- Guided tissue regeneration procedures in periodontal defects[1]

COPIOS EXTEND MEMBRANE

Item 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

1. CopiOs Extend Membrane IFU latest revision. **2.** Data on File with Collagen Matrix Inc. **3.** Data on File with ZimVie.

BioMend and BioMend Extend

Resorbable Barrier Membranes

Key Benefit:

Resorbable collagen membranes that are rigid enough to create and maintain space.[1]

Clinical Advantages

- Made of bovine achilles tendon[2]
- Two different options of barrier time: 8 weeks max. (BioMend), 18 weeks max. (BioMend Extend)[2]
- Not side specific for convenient handling[3]
- Cell-occlusive – serves as barrier to prevent epithelial cell migration and allows passage of essential nutrients[2]
- Up to 54% more horizontal bone gain when using BioMend Extend membranes to cover bone graft during implant placement[4]

*Compared to a Porcine Membrane**

- Significantly higher tensile strength in wet and dry state may be useful for guided bone regeneration techniques[9]
- 34 % more new bone fill and 28 % more bone-to-implant contact when using BioMend Extend Membranes for treatment of implant dehiscence defects.[1]

Shown Clinically Successful In:

- Guided tissue regeneration procedures in periodontal defects[2]
- Periodontal surgery[2, 5, 6]
- Use in dental surgery procedures as a material for placement in the area of an implant, bone defect or ridge construction[2, 7]
- Sinus lift procedures[8]

BIOMEND MEMBRANE

Catalog No.	Description
0103Z	BioMend Resorbable Collagen Membrane, 15 x 20 mm
0105Z	BioMend Resorbable Collagen Membrane, 20 x 30 mm
0107Z	BioMend Resorbable Collagen Membrane, 30 x 40 mm

Shelf-life: Three (3) years

BIOMEND EXTEND MEMBRANE

Catalog No.	Description
0140Z	Biomend Extend Resorbable Collagen Membrane, 15 x 20 mm
0141Z	Biomend Extend Resorbable Collagen Membrane, 20 x 30 mm
0142Z	Biomend Extend Resorbable Collagen Membrane, 30 x 40 mm

Shelf-life: Three (3) years

*Bio-Gide Membrane, Edward Geistlich Sohne AG

1. Oh T.J. et al. Clin Oral Implants Res (2003) 14:80-90, **2.** BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision. **3.** Data on File with Collagen Matrix Inc. **4.** Park S.H. et al. Clin Oral Implants Res (2008) 19:32-41. **5.** Wang H.L. et al. J Periodontol (1994) 65:1029-36. **6.** Wang H.-L. et al. Periodontol 2000 (2012) 59:140-157. **7.** Saravanan P. et al. J Oral Implantol (2013) 39:455-62. **8.** Ranaan J. et al. Clin Oral Implants Res (2018). **9.** Coïc M. et al. Rev Stomatol Chir Maxillofac Chir Orale (2010) 111:286-290.

OsseoGuard and OsseoGuard Flex

Collagen Membranes

Key Benefit

Two levels of drapability for ease of use in various clinical procedures.[1]

Clinical Advantages

- Made of bovine achilles tendon (OsseoGuard)1 and highly purified bovine dermis (OsseoGuard Flex)[2]
- Barrier time 6–9 months[1-3]
- Not side specific for convenient handling[4]
- Can be trimmed, placed dry or hydrated and finally sutured in place[1,2]
- Performs when primary closure has not been achieved (OsseoGuard Flex)[4]
- Space maintaining (OsseoGuard)[5]

Shown Clinically Successful In (OsseoGuard):

- Periodontal and/or dental surgery procedures[1]
- In the area of periodontal defects, dental implant, bone defect or ridge reconstruction[1,6-9]

OsseoGuard

Shown Clinically Successful In (OsseoGuard Flex):

- Augmentation around implants placed in immediate extraction sockets, delayed extraction sockets[2,10-12]
- Localized ridge augmentation for later implantation[2,13]
- Alveolar ridge reconstruction for prosthetic treatment[2]
- Filling of bone defects[2]
- Guided bone regeneration in dehiscence defects[2]
- Guided tissue regeneration procedures in periodontal defects[2]

OsseoGuard Flex

OSSEOGUARD MEMBRANE

Item Number	Description
OG1520	OsseoGuard Resorbable Collagen Membrane, 15 x 20 mm
OG2030	OsseoGuard Resorbable Collagen Membrane, 20 x 30 mm
OG3040	OsseoGuard Resorbable Collagen Membrane, 30 x 40 mm

Shelf-life: Three (3) years

OSSEOGUARD FLEX MEMBRANE

Item Number	Description
OGF1520	OsseoGuard Flex Resorbable Collagen Membrane, 15 x 20 mm
OGF2030	OsseoGuard Flex Resorbable Collagen Membrane, 20 x 30 mm
OGF3040	OsseoGuard Flex Resorbable Collagen Membrane, 30 x 40 mm

Shelf-life: Three (3) years

1. OsseoGuard Membrane IFU latest revision. **2.** OsseoGuard Flex Membrane IFU latest revision. **3.** Data on File with Collagen Matrix Inc. **4.** Data on File with ZimVie. **5.** Block M.S. et al. J Oral Maxillofac Surg (2013) 71:1513-1519. **6.** Fischer K.R. et al. Int J Periodontics Restorative Dent (2018) 38:549-556. **7.** Tan-Chu J.H. et al. Int J Periodontics Restorative Dent (2014) 34:399-403. **8.** Block M.S. et al. J. Oral Maxillofac. Surg. (2012) 70:1321-1330. **9.** Nevins M. et al. Int J Periodontics Restorative Dent (2011) 31:227-35. **10.** Chasioti E. et al. Case reports in dentistry (2015) Article ID 439706:8pages. **11.** Castillo R.a.D. Inside Dent (2011) 7:94-96. **12.** Felice P. et al. Eur J Oral Implantol (2015) 8:375-84. **13.** Chasioti E. et al. Quintessence Int (2013) 44:763-71.

Socket Repair
Membrane

Key Benefit

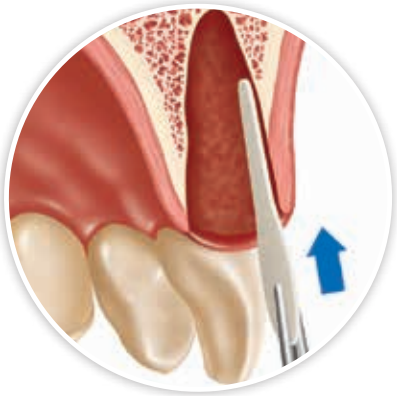
The Socket Repair Membrane is designed to assist wound healing in alveolar facial plate repair following atraumatic, flapless single-root tooth extraction.[1]

Clinical Advantages

- Made of bovine achilles tendon[1]
- Barrier time 26-38 weeks[1] (accelerated resorption will occur if exposed)
- Flapless approach preserves marginal soft tissue contours[2] and does not compromise buccal bone tissue as well vascularity important to achieve high aesthetic results[3]

Shown Clinically Successful In:

- 3-wall extraction sockets[3-5]



SOCKET REPAIR MEMBRANE

Catalog No.	Description
0154	Socket Repair Membrane, 10 x 20 mm

Shelf-life: Three (3) years

1. Socket Repair Membrane IFU latest revision **2.** Danesh-Meyer M. Australasian Dental Practice (2008) 150-158. **3.** Elian N. et al. Pract Proced Aesthet Dent (2007) 19:99-104. **4.** Eskow A.J. et al. J Periodontol (2014) 85:514-24. **5.** Hoang T.N. et al. J Periodontol (2012) 83:174-81.

OsseoGuard PTFE

Non-Resorbable Barrier Membranes

Key Benefit:

OsseoGuard PTFE Membranes are manufactured of 100% Dense (non-expanded) PTFE which are impervious to bacteria.[1, 2]

Clinical Advantages of Non-Textured, High-Density PTFE Membrane[3]

- Non-Resorbable: Won't resorb prematurely – you can better manage healing time
- 100% Dense (non-expanded) PTFE – Impervious to bacteria (pore size less than 0.3 µm)
- Can be left exposed – Less surgical time, preservation of soft tissue architecture and keratinized mucosa
- Soft tissue attaches, but doesn't grow through the membrane
- Most cost effective OsseoGuard PTFE membrane

Clinical Advantages of Textured, High-Density PTFE Membranes[3]

- Textured surface – Designed to increase membrane stabilization
- Non-Resorbable – Won't resorb prematurely – you can better manage healing time
- 100% Dense (non-expanded) PTFE – Impervious to bacteria (pore size less than 0.3 µm)
- Purposely leave the membrane exposed
- Soft tissue attaches but doesn't grow through the membrane

OSSEOGUARD PTFE NON-TEXTURED MEMBRANES

Item Number	Description	Units per box
NTXR1224-10	Non-textured small, 12 x 24 mm	10
NTXR2530-4	Non-textured large, 25 x 30 mm	4

Shelf-life: Four (4) years

OsseoGuard PTFE Non-Textured Membranes

OSSEOGUARD PTFE TEXTURED MEMBRANES

Item Number	Description	
TXR1224-1	Textured small, 12 x 24 mm	1
TXR1224-10		10
TXR2530-1	Textured large, 25 x 30 mm	1
TXR2530-4		4

Shelf-life: Four (4) years

OsseoGuard PTFE Textured Membranes

1. Barboza E.P. et al. Implant Dent (2010) 19:2-7. **2.** Hoffmann O. et al. J Periodontol (2008) 79:1355-69. **3.** Data on file with manufacturer and available upon request.

OsseoGuard PTFE

Non-Resorbable Barrier Membranes

Clinical Advantages of Titanium-Reinforced, High-Density PTFE Membrane[1]

- Grade 1 titanium, lightweight framework - easy to form in 3 dimensions and retains no memory
- Can be molded and shaped for tenting and space maintenance[2]
- Two different thicknesses (150 µm and 250 µm) resulting in two different handling options
- Demonstrated performance in horizontal and vertical grafting procedures[2, 3]

OsseoGuard PTFE Titanium-Reinforced Membranes

OSSEOGUARD PTFE NON-TEXTURED MEMBRANES

Item Number		Description	Units (per box)
TR250 (250 µm thick)	TR150 (150 µm thick)		
TR250AE-1	TR150AE-1	Anterior Extraction, 12 x 24 mm	1
TR250AE-2	TR150AE-2		2
TR250AEY-1	TR150AEY-1	Anterior Extraction, 14 x 24 mm	1
TR250AEY-2	TR150AEY-2		2
TR250LF-1	TR150LF-1	Large Facial, 17 x 25 mm	1
TR250LF-2	TR150LF-2		2
TR250PE-1	TR150PE-1	Posterior Extraction, 20 x 25 mm	1
TR250PE-2	TR150PE-2		2
TR250P-1	TR150P-1	Posterior, 25 x 30 mm	1
TR250P-2	TR150P-2		2
TR250SMT-1	TR150SMT-1	Small-T, 25 x 36 mm	1
TR250SMT-2	TR150SMT-2		2
TR250LGT-1	TR150LGT-1	Large-T, 30 x 41 mm	1
TR250LGT-2	TR150LGT-2		2
TR250RAX-1	TR150RAX-1	Ridge Augmentation X, 30 x 40 mm	1
TR250RAX-2	TR150RAX-2		2
TR250RAK-1	TR150RAK-1	Ridge Augmentation K, 30 x 40 mm	1
TR250RAK-2	TR150RAK-2		2
TR250RAKL-1	TR150RAKL-1	Ridge Augmentation K, 40 x 50 mm	1
TR250RAKL-2	TR150RAKL-2		2
TR250PN-1	TR150PN-1	Perio Narrow, 13 x 19 mm	1
TR250PN-2	TR150PN-2		2
TR250PW-1	TR150PW-1	Perio Wide, 13 x 18 mm	1
TR250PW-2	TR150PW-2		2
TR250TCS-1	TR150TCS-1	Trans Crestal, 24 x 38 mm	1
TR250TCS-2	TR150TCS-2		2
TR250TCL-1	TR150TCL-1	Trans Crestal, 38 x 38 mm	1
TR250TCL-2	TR150TCL-2		2
TR250PR-1	TR150PR-1	Posterior Ridge, 38 x 38 mm	1
TR250PR-2	TR150PR-2		2

Shelf-life: Four (4) years

1. Data on file with manufacturer and available upon request. **2.** Ronda M. et al. Clin Oral Implants Res (2014) 25:859-66. **3.** Ronda M. et al. Int J Periodontics Restorative Dent (2015) 35:795-801.

Collagen Wound Dressings

Plug, Tape, and Patch

Key Benefit:

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

Clinical Advantages

- Made of porcine collagen[1]
- Holds up to 30x own weight in fluid[2]
- No removal needed – Resorbs in fewer than 30 days[2]
- Greater than 90% open pores[2]
- Protects wound bed – Adheres and provides coverage to oral wounds and sores
- Designed to aid healing – Porous, absorbable matrix supports delicate new tissue

Shown Clinically Successful In:

- Periodontal surgical wounds[1]
- Suture sites[1]
- Extraction sites[1]
- Surgical wounds[1]
- Traumatic wounds[1]

Collagen Plug
10 x 20 mm

Collagen Tape
25 x 75 mm, 1 mm thick

Collagen Patch
20 x 40 mm, 3 mm thick

COLLAGEN WOUND DRESSINGS: PLUG, TAPE, AND PATCH

Item Number	Description
0100Z	Zimmer Collagen Tape, 25 x 75 x 1 mm, 10 units/pk
0101Z	Zimmer Collagen Patch, 20 x 40 x 3 mm, 10 units/pk
0102Z	Zimmer Collagen Plug, 10 x 20 mm, 10 units/pk

Shelf-life: Three (3) years

1. Zimmer Collagen Absorbable Wound Dressings IFU latest revision. **2.** Data on File with Collagen Matrix Inc.

Puros Dermis

Allograft Tissue Matrix

Key Benefit:

Puros Dermis Allograft Tissue Matrix is a high-quality, natural, biocompatible dermal matrix for horizontal and vertical soft tissue augmentation.[1-3]

Clinical Advantages

- After 5 years follow-up, no statistical significant differences in tissue thickening and gain of clinical attachment level compared to autogenous connective tissue graft when used to treat multiple gingival recessions[1]
- Able to demonstrate gain in keratinized tissue which remained stable after 5 years post-surgery[1]
- Reduces morbidity and chair time by eliminating the need to harvest an autogenous graft[1]
- Provides an excellent healing environment and acts as a scaffold for the patient's own tissue to grow into and regenerate vital soft tissue[2,3]
- Maintains space to allow for angiogenesis and tissue remodeling, and increases the volume of attached gingiva and connective tissue[2,3]
- Superior tissue characteristics due to solvent dehydration processing compared to freeze dried products[4]
- Not cross-linked compared to a xenogeneic soft tissue graft[5]
- 100% free of antibiotics: Puros Dermis tissue matrix is not treated with antibiotics[6]
- Rehydration in a single bath reduces preparation time[7]

Shown Clinically Successful In:

- Horizontal and vertical soft tissue augmentation[1-3, 8]
- Periodontal soft tissue management[9-11]
- Peri-implant soft-tissue management[12,13]

PUROS DERMIS ALLOGRAFT TISSUE MATRIX - THIN

Catalog No.	Description - Thin
67794	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.3-0.8 mm
67795	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.3-0.8 mm
67796	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.3-0.8 mm
67797	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.3-0.8 mm

Shelf-life: Five (5) years

PUROS DERMIS ALLOGRAFT TISSUE MATRIX - THICK

Catalog No.	Description - Thick
67793	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.8-1.8 mm
67790	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.8-1.8 mm
67791	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.8-1.8 mm
67792	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.8-1.8 mm

Shelf-life: Five (5) years

1. Kroiss S. et al. Quintessence Int. (2019) 50:278-285. **2.** Petrungaro P. Inside Dent (2007) 3:2-4. **3.** Petrungaro P.S. Inside Dent (2010) 2-9. **4.** Hinton R. et al. Am J Sports Med (1992) 20:607-12. **5.** Geistlich Fibro-Gide® IFU 08/2017. **6.** Alloderm IFU 11/2017. **7.** Puros Dermis Allograft Tissue Matrix IFU 06/2017. **8.** Abou-Arraj R.V. et al. Int J Periodontics Restorative Dent (2017) 37:571-579. **9.** Aroni M.a.T. et al. Rev Odontol UNESP (2016) 45:78-84. **10.** Wang H.L. et al. J Periodontol (2014) 85:1693-701. **11.** Alasmari D.S. J Am Sci (2014) 10:97-99. **12.** Farina V. et al. Int J Oral Maxillofac Implants (2015) 30:909-17. **13.** Puisys A. et al. Clin Oral Implants Res (2015) 26:123-9.

Biotivity

Hyaluronic Acid

Key Benefit:

Biotivity Hyaluronic Acid is a non-cross-linked gel developed for intraoral use during regenerative or implant treatments.[1] Easily applied to the surgical site, Biotivity Hyaluronic Acid acts in the early stages of healing, reduces inflammation and lessens pain.[2-4]

Clinical Advantages

1. Facilitates Healing

- Attracts growth factors to the healing site[5] and accelerates formation of soft and hard tissue[6–8]
- Supports angiogenesis[9], cell proliferation, and differentiation[10]
- Shown to be as effective as platelet concentrates such as PRF[3,6,8,11]

2. Higher Patient Comfort

- Reduced swelling when used in recession coverage procedures[12]
- Lessened pain levels when applied to palatal donor sites[13,14]
- Documented lower pain levels when used during implant placement[4] and after molar extraction[15]

3. Ease of Use

- 5 ml vial can be used on multiple patients
- Allows application of the desired volume for varying procedures
- Opened vial can be stored for 5 weeks in the refrigerator[1]

Shown Clinically Successful In:

- Socket and ridge preservation *(immediate or delayed implants)*[1,16]
- Implant placement *(e.g. to activate implant surface)*[1]
- Treatment of peri-implant mucositis[1,17]
- Treatment of peri-implant infections[1,18,19]
- Periodontal defects, Recession coverage[20,21]
- Guided bone regeneration procedures[6,22]

BIOTIVITY HYALURONIC ACID

Item Number	Description
BHA5	Biotivity Hyaluronic Acid 5 ml vial, incl. 5 sterile syringes

Shelf-life: Three (3) years

CE 0373

1. Biotivity Hyaluronic Acid IFU. **2.** Data on file with manufacturer. **3.** Akyildiz S. et al. J Craniofac Surg (2018) 29:1794-1798. **4.** Alkhateeb W.H. et al. Cureus (2023) 15:e36575. **5.** Aya K.L. et al. Wound Repair and Regeneration (2014) 22:579-593. **6.** Abaza G. et al. Clin Implant Dent Relat Res (2024) 26:88-102. **7.** Salbach J. et al. J Mol Med (2012) 90:625-635. **8.** Faour N.H. et al. Cureus (2022) 14:e25104. **9.** Mast B.A. et al. Matrix (1993) 13:441-446. **10.** Fujioka-Kobayashi M. et al. BMC Oral Health (2017) 17:44. **11.** Mazloum T.A. et al. International Arab Journal of Dentistry (2023) 14. **12.** Pilloni A. et al. Clin Oral Investig (2019) 23:1133-1141. **13.** Yıldırım S. et al. J Periodontol (2018) 89:36-45. **14.** Khalil S. et al. Clin Oral Investig (2022) 26:2165-2174. **15.** Yilmaz N. et al. Nigerian Journal of Clinical Practice (2017) 20:1626-1631. **16.** Baldini A. et al. Ann Stomatol (Roma) (2010) 1:2-7. **17.** Lopez M.A. et al. J Biol Regul Homeost Agents (2017) 31:115-118. **18.** Rakašević D. et al. J Funct Biomater (2023) 14. **19.** Sánchez-Fernández E. et al. J Periodontal Implant Sci (2021) 51:63-74. **20.** Ramanauskaite E. et al. Clin Oral Investig (2023). **21.** Vanden Bogaerde L. Int J Periodontics Restorative Dent (2009) 29:315-23. **22.** D'Albis G. et al. Genesis (2022) 60:e23497.

OsseoGuard PTFE

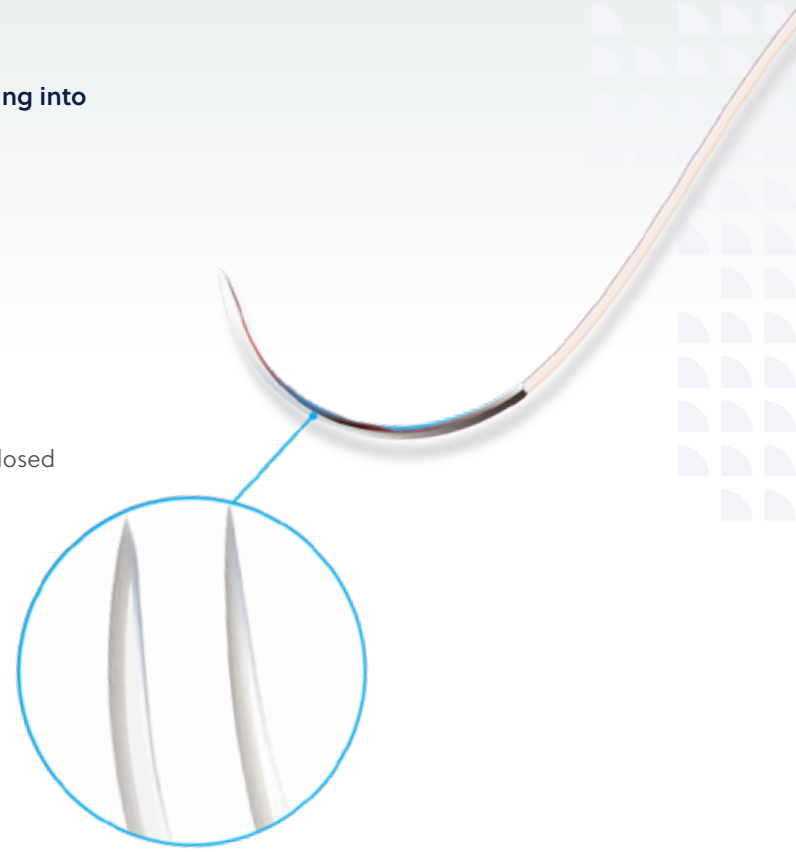
Non-Resorbable Sutures

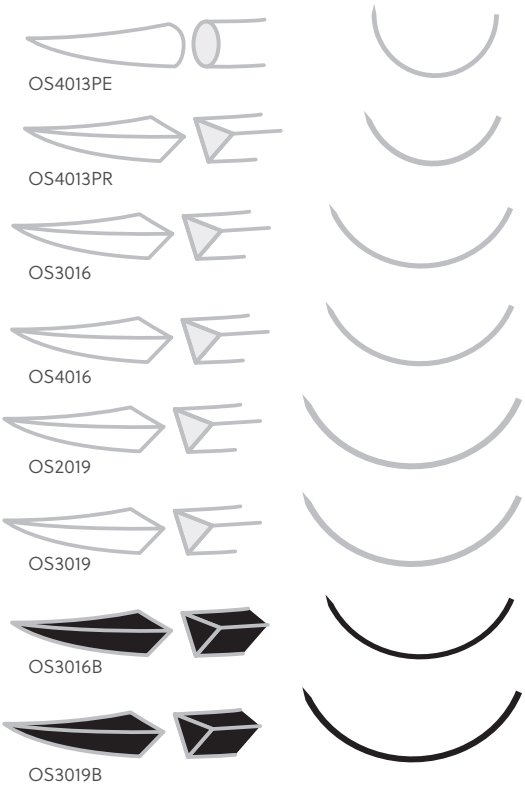
Key Benefit:

Monofilament construction prevents bacterial wicking into surgical sites.

Clinical Advantages[1]

- 100% Medical Grade PTFE – Biologically inert
- Monofilament - does not allow bacteria wicking into the surgical site
- Soft and comfortable for patients
- Excellent handling and knot security
- Non-resorbable – keeps the the surgical site reliably closed





OSSEOGUARD PTFE NON-RESORBABLE SUTURES

Item Number	Description	Units per box
OS4013PE	USP 4-0, 13 mm, 1/2 circle round body taper point, L 45 cm	12
OS4013PR	USP 4-0, 13 mm, 3/8 circle precision reverse cutting, L 45 cm	12
OS3016	USP 3-0, 16 mm, 3/8 circle precision reverse cutting, L 45 cm	12
OS4016	USP 4-0, 16 mm, 3/8 circle precision reverse cutting, L 45 cm	12
OS2019	USP 2-0, 19 mm, 3/8 circle precision reverse cutting, L 45 cm	12
OS3019	USP 3-0, 19 mm, 3/8 circle precision reverse cutting, L 45 cm	12
OS3016B	USP 3-0, 16 mm, 3/8 circle precision reverse cutting black, L 45 cm	12
OS3019B	USP 3-0, 19 mm, 3/8 circle precision reverse cutting black, L 45 cm	12

Shelf-life: Four (4) years

1. Data on file with manufacturer and available upon request.

Screw Fixation

Instrument Kit

Key Benefit:

The Screw Fixation System provides a solution for the temporary fixation and stabilization of bone transplants, suitable resorbable and non-resorbable bone replacement materials, and membranes for ridge augmentation procedures.[1]

Clinical Advantages

- Titanium alloy fixation screws are biocompatible, corrosion-proof and non-toxic in the biological environment[1]
- Power grip connection for secure and stable transfer of the screws to the surgical site[1]
- Two color coded systems, Ø 1.5 mm MICRO (blue) and Ø 2.0 mm MINI (red) screws for easy and rapid identification of the parts possible and simplifies parts matching[1]
- Modular storage system permits individual configuration[1]
- Autoclavable metal storage tray[1]

ASSEMBLED START-UP KIT, ITEM 69.01.10Z

Item Number	Description
69.01.11Z	Tray
75.23.52Z	Screw Driver Handle
75.23.23Z	Screw Driver Insert, Micro, Short
75.23.19Z	Screw Driver Insert, Micro, Long
69.01.09Z	Pilot Drill, Micro, 14mmL
69.01.16Z	Pilot Block Drill, Micro

ADDITIONAL PARTS

Item Number	Description
75.23.21Z	Screw Driver Insert, Mini, Short
75.23.22Z	Screw Driver Insert, Mini, Long
69.01.15Z	Pilot Drill, Mini, Short
69.01.17Z	Pilot Block Drill, Mini

Please contact ZimVie for a full list of available replacement parts and optional items.

FIXATION SCREWS

Item Number	Description
68.85.83Z	Screws, Micro, 1.5 mmD Self Drilling, 3.5 mmL, 10 pack
68.85.84Z	Screws, Micro, 1.5 mmD Self Drilling, 4 mmL, 10 pack
68.85.85Z	Screws, Micro, 1.5 mmD Self Drilling, 5 mmL, 10 pack
68.85.87Z	Screws, Micro, 1.5 mmD Self Drilling, 7 mmL, 10 pack
68.85.49Z	Screws, Micro, 1.5 mmD Self Tapping, 9 mmL, 10 pack
68.85.51Z	Screws, Micro, 1.5mmD Self Tapping, 11 mmL, 10 pack

1. Screw Fixation System IFU latest revision.

Bone Scrapers

Cortical Bone Collectors

Key Benefit:

Effectively harvesting autogenous bone which contains viable bone cells which might contribute to the outcome of bone grafting procedures.[1]

Safescraper™ Twist - Cortical Bone Collector

Clinical Advantages

- Provides 160° cutting area to effectively harvest cortical bone[2]
- Available in curved and straight designs facilitating access to hard-to-reach donor sites
- Harvested bone is contained in a sterile chamber
- Harvested bone contains viable bone cells and shows high osteogenic potential[1,3]
- Higher cell viability, cell proliferation, osteogenic potential and release of growth factors compared to other harvesting methods[3,4]

Micross Bone Collector

Clinical Advantages

- Micro-blade, allows minimally invasive bone collection without raising a flap by using a tunnel technique
- Designed to access hard to reach areas
- Effective on any bone surface (plane, concave, convex)

BONE SCRAPERS

Item Number	Description
3598	Safescraper Twist Disposable Cortical Bone Collector, 3 units/pk, straight
3987	Safescraper Twist Disposable Cortical Bone Collector, 3 units/pk, curved
AD.4049	Micross Disposable Cortical Bone Collector, 1 unit/pk

Shelf-life: Three (3) years

CE 0123

1. Zaffe D. et al. Clin Oral Implants Res (2007) 18:525-533. **2.** Safescraper IFU latest revision. **3.** Miron R.J. et al. J Dent Res (2011) 90:1428-33. **4.** Miron R.J. et al. Clin Implant Dent Relat Res (2013) 15:481-489.

Ti-System

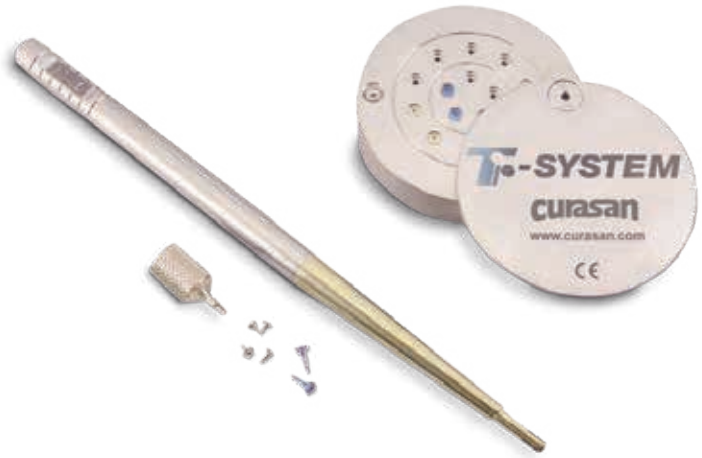
Membrane Fixation

Key Benefit:

Reliable fixation of GTR and GBR membranes.

Clinical Advantages

- Safe and fast[1,2] fixation of resorbable and non-resorbable membranes
- Effective immobilization of membrane and bone graft particulates for undisturbed healing[1]
- Tacks made of titanium grade 5
- Hex connection for secure pick up and stable transportation to the surgical site
- Designed for an easy to open tray thanks to one-hand mechanism
- For machine cleaning and sterilization[2]



TI-SYSTEM

Item Number	Description
CUR.9000810101	Titanium endpiece, straight
CUR.9000810103	Titanium tack handpiece
CUR.9000810104	Hex screw driver
CUR.9000810105	Sterilization tray (15 tacks max)
CUR.9000810106	Titanium Tack, length 3 mm - 5 units/pk

1. Fugazzotto P.A., Implant and regenerative therapy in dentistry: a guide to decision making. 2009: John Wiley & Sons. **2.** Ti-System IFU latest revision.

Product Decision Tree

Flapless Extraction Sites

Buccal Wall Intact

Immediate or Delayed Implant Placement

Bone Graft *(Select One Option)*

0.5 cc[1]

- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

+

Socket Sealing *(Select One Option)*

12 x 24 mm[1]

- OsseoGuard PTFE Textured Membrane[5]

Ø 10 mm[1]

- Zimmer Collagen Plug[6]

Preservation Without Further Implant Placement

Bone Graft *(Select One Option)*

0.5 cc[1]

- Endobon Xenograft[3]
- IngeniOs HA[7]

+

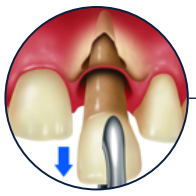
Socket Sealing *(Select One Option)*

12 x 24 mm[1]

- OsseoGuard PTFE Textured Membrane[5]

Ø 10 mm[1]

- Zimmer Collagen Plug[6]



25-50% Buccal Wall Loss

Immediate or Delayed Implant Placement

Bone Graft *(Select One Option)*

0.5 cc[1]

- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

+

Protective Barrier

10 x 20 mm[1]

- Zimmer Socket Repair Membrane[8]

Preservation Without Further Implant Placement

Bone Graft *(Select One Option)*

0.5 cc[1]

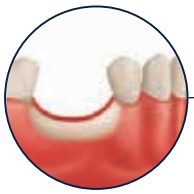
- Endobon Xenograft[3]
- IngeniOs HA[7]

+

Protective Barrier

10 x 20 mm[1]

- Zimmer Socket Repair Membrane[8]



>50% Buccal Wall Loss*

Localized Ridge Augmentation

Bone Graft *(Select One Option)*

1.0 cc[1]

- Puros Allograft Blend[2]
- RegenerOss Resorbable Xenograft[4]

+

Protective Barrier *(Select One Option)*

15 x 20 mm[1] **or 20 x 30 mm**[1]

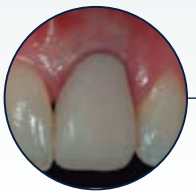
- CopiOs Pericardium Membrane[9]
- OsseoGuard Flex Membrane[10]
- CopiOs Extend Membrane[11]
- PEEK AccuraPlate[12] + Resorbable Collagen Membrane

* When >50% bone loss is present raising a flap for ridge augmentation may needed.

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller. **2.** Puros Allograft IFU latest revision. **3.** Endobon Xenograft IFU latest revision. **4.** RegenerOss Xenograft IFU latest revision. **5.** OsseoGuard PTFE Membrane IFU latest revision. **6.** Sclar A.G. Postgraduate Dentistry (1999) 6:3-11. **7.** IngeniOs HA Synthetic Bone Particles IFU latest revision. **8.** Zimmer Socket Repair Membrane IFU latest revision. **9.** CopiOs Pericardium Membrane IFU latest revision. **10.** OsseoGuard Flex Membrane IFU latest revision. **11.** CopiOs Extend Membrane IFU latest revision. **12.** PEEK AccuraPlate IFU latest revision.

Product Decision Tree

Extraction Sites With Flap



Thin Biotype

Bone Graft *(Select One Option)*

0.5 cc[1]

- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

+

Protective Barrier *(Select One Option)*

15 x 20 mm[1] or 20 x 30 mm[1]

- CopiOs Pericardium Membrane[5]
- OsseoGuard Flex Membrane[6]
- CopiOs Extend Membrane[7]

+

Soft Tissue Graft

10 x 10 mm or 10 x 20 mm[1]

- Puros Dermis Allograft (Thick)[8]

Thick Biotype

Bone Graft *(Select One Option)*

0.5 cc[1]

- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

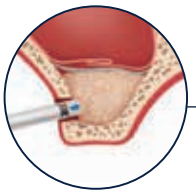
+

Protective Barrier *(Select One Option)*

15 x 20 mm[1] or 20 x 30 mm[1]

- CopiOs Pericardium Membrane[5]
- OsseoGuard Flex Membrane[6]
- CopiOs Extend Membrane[7]

Sinus Lifts



Lateral Approach

Bone Graft *(Select One Option)*

1.0–3.0 cc[1]

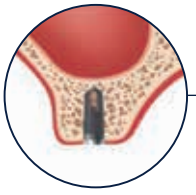
- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

+

Protective Barrier *(Select One Option)*

15 x 20 mm[1] or 20 x 30 mm[1]

- CopiOs Pericardium Membrane (Lateral Wall)[5]
- BioMend Extend Membrane (for Tears in Schneiderian Membrane)[9]



Crestal Approach

Bone Graft *(Select One Option)*

0.5 cc[1]

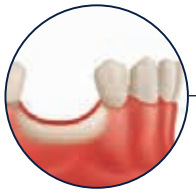
- Puros Allograft Cancellous or Blend[2]
- Endobon Xenograft[3]
- RegenerOss Resorbable Xenograft[4]

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller. **2.** Puros Allograft IFU latest revision. **3.** Endobon Xenograft IFU latest revision. **4.** RegenerOss Xenograft IFU latest revision. **5.** CopiOs Pericardium Membrane IFU latest revision. **6.** OsseoGuard Flex Membrane IFU latest revision. **7.** CopiOs Extend Membrane IFU latest revision. **8.** Puros Dermis Allograft Tissue Matrix IFU latest revision. **9.** BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision.

Ridge Reconstruction

Horizontal Bone Defect

	Bone Graft	Protective Barrier *(Select One Option)*
	0.5cc – 2.0cc[1]	15 x 20 or 20 x 30 mm[1]
Immediate Implant Placement	· Puros Allograft Cancellous or Blend[2]	· CopiOs Pericardium Membrane[5] · OsseoGuard Flex Membrane[6] · CopiOs Extend Membrane[7]
	Bone Graft *(Select One Option)*	**Protective Barrier** *(Select One Option)*
	0.5cc – 2.0cc[1]	15 x 20 or 20 x 30 mm[1]
Delayed Implant Placement	· Puros Allograft Cancellous or Blend[2] · Endobon Xenograft[3] · RegenerOss Resorbable Xenograft[4]	· CopiOs Pericardium Membrane[5] · OsseoGuard Membrane[8] · CopiOs Extend Membrane[7] · OsseoGuard PTFE Titanium-Reinforced Membrane[9] · PEEK AccuraPlate[10]
	· Puros Allograft Pre-shaped Blocks[2] · Puros Allograft Customized Blocks[2]	· CopiOs Pericardium Membrane[5] · CopiOs Extend Membrane[7]



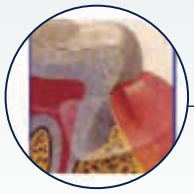
Horizontal and Vertical Bone Defect

	Bone Graft *(Select One Option)*	Protective Barrier *(Select One Option)*
	0.5cc – 3.0cc[1]	15 x 20 or 20 x 30 mm[1]
Immediate Implant Placement	· Puros Allograft Cancellous or Blend[2] · RegenerOss Resorbable Xenograft[4]	· CopiOs Pericardium Membrane[5] · CopiOs Extend Membrane[7] · OsseoGuard PTFE Titanium-Reinforced Membrane[9]
	Bone Graft *(Select One Option)*	**Protective Barrier***(Select One Option)*
	0.5cc – 3.0cc[1]	15 x 20 or 20 x 30 mm[1]
Delayed Implant Placement	· Puros Allograft Cancellous or Blend[2] · RegenerOss Resorbable Xenograft[4]	· OsseoGuard PTFE Titanium-Reinforced Membrane[9] · Titanium/PEEK AccuraMesh[11,12] + Resorbable Collagen Membrane
	· Puros Allograft Pre-shaped Blocks[2] · Puros Allograft Customized Blocks[2]	· CopiOs Pericardium Membrane[5] · CopiOs Extend Membrane[7]

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller. **2.** Puros Allograft IFU latest revision. **3.** Endobon Xenograft IFU latest revision. **4.** RegenerOss Xenograft IFU latest revision. **5.** CopiOs Pericardium Membrane IFU latest revision. **6.** OsseoGuard Flex Membrane IFU latest revision. **7.** CopiOs Extend Membrane IFU latest revision. **8.** OsseoGuard Membrane IFU latest revision. **9.** OsseoGuard PTFE Membrane IFU latest revision. **10.** PEEK AccuraPlate IFU latest revision. **11.** Titanium AccuraMesh IFU latest revision. **12.** PEEK AccuraMesh IFU latest revision.

Product Decision Tree

Periodontal Defects

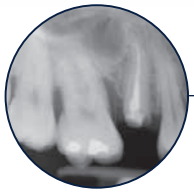


Pocket Depth - Small

Protective Barrier

15 x 20 mm or 20 x 30 mm[1]

- BioMend Membrane[2]
- Biomend Extend Membrane[2]



Pocket Depth - Large

Bone Graft

0.5 cc[1]

- Puros Allograft Cancellous[3]

+

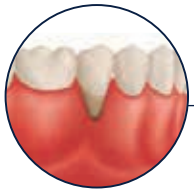
Protective Barrier

15 x 20 mm or 20 x 30 mm[1]

- CopiOs Pericardium Membrane[4]

Clinical photograph courtesy of Dr. D. Engler-Hamm. Individual results may vary

Soft Tissue Augmentation

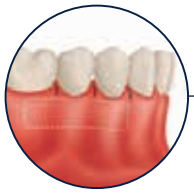


Recession Coverage

Soft Tissue Graft

Thin or Thick, Different Sizes May Be Needed[1]

- Puros Dermis Allograft Tissue Matrix[5]



Soft Tissue - Thickening at Implant Sites or Natural Tooth/Teeth

Soft Tissue Graft

Thin or Thick, Different Sizes May Be Needed[1]

- Puros Dermis Allograft Tissue Matrix[5]

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller. **2.** BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision. **3.** Puros Allograft IFU latest revision. **4.** CopiOs Pericardium Membrane IFU latest revision. **5.** Puros Dermis Allograft Tissue Matrix IFU latest revision.

Notes

For more information, visit ZimVie.eu

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The NB number applicable to each device can be found on the product label, if applicable.