

Puros[®] Cancellous Particulate Allograft & Puros Block Allograft



Puros Cancellous Particulate Allograft

The Natural Choice For Healthy¹ Bone Growth.

1. Proven, Predictable Regeneration

- Acts as an osteoconductive scaffold for new bone formation.²⁻³
- In large-volume applications, prospective studies have documented faster bone regeneration at 6 months than grafts containing sintered bovine bone matrix.⁴⁻⁵
- In small-volume applications, regeneration of hard bone has been reported as early as 3–5 months.⁶⁻⁸

2. Natural And Easy To Use

- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, and original porosity,²⁻³ enabling the ingrowth of vascular and cellular connective tissue.⁷
- Easy handling – quick hydration, five-year shelf life and room temperature storage.

3. Tutoplast[®] Process

- Sterilized and preserved using the proprietary Tutoplast process, Puros Cancellous Particulate is a high-quality allograft designed for large and small volume bone regeneration procedures.



Puros Allografts – Filling nature's void.
A comprehensive line of allografts for bone and soft tissue augmentation needs.

The Bone Grafting Material Of Choice For Many Clinicians Due To Its History Of Well-Documented Clinical Results.

Puros Cancellous Particulate Allografts have shown successful clinical results in:

- Regeneration of periodontal bone and furcation defects.²⁻³
- Osseous defect regeneration.^{2-3, 5-8}
- Regeneration of extraction sockets.⁶⁻⁷
- Regeneration of gaps around block grafts.⁶⁻⁹
- Horizontal alveolar crest augmentation.⁶⁻⁹
- Sinus augmentation.⁴⁻⁵

Take A Closer Look



Fig A
Bony defect region 21.

A



Fig B
Puros Allograft Cancellous Particles in place.

B



Fig C
Bone graft covered with CopiOs® Pericardium Membrane.

C



Fig D
Implant bed after 4.5 months healing time: recovered ridge width.

D

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Ordering Information

Catalog Number	Description
67210	Puros Allograft Cancellous Particulate, 0,5 cc, 0,25–1 mm
67211	Puros Allograft Cancellous Particulate, 1 cc, 0,25–1 mm
67209	Puros Allograft Cancellous Particulate, 2 cc, 0,25–1 mm
67212	Puros Allograft Cancellous Particulate, 0,5 cc, 1–2 mm
67213	Puros Allograft Cancellous Particulate, 1 cc, 1–2 mm
67214	Puros Allograft Cancellous Particulate, 2 cc, 1–2 mm
67215	Puros Allograft Cancellous Particulate, 3 cc, 1–2 mm
67216	Puros Allograft Cancellous Particulate, 3 cc, 2–4 mm

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- Noumbissi SS, Lozada JL, Boyne PJ, Rohrer MD, Clem D, Kim JS, Prasad H. Clinical, histologic, and histomorphometric evaluation of mineralized solvent-dehydrated bone allograft (Puros) in human maxillary sinus grafts. *J Oral Implantol*. 2005;31:171-179.
- Block MS, Finger I, Lytle R. Human mineralized bone in extraction sites before implant placement. Preliminary results. *J Amer Dent Assoc*. 2002;133:1631-1638.
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- Block MS, Degen M. Horizontal ridge augmentation using human mineralized particulate bone: preliminary results. *J Oral Maxillofac Surg*. 2004;62 (Suppl 2):67-72.
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Puros Block Allograft

Changing the concept of block grafting.

1. Documented Successful Bone Regeneration

- Documented graft and implant success rates make it a viable alternative to autogenous block grafting.¹⁰⁻¹¹
- Cortico-Cancellous structure retains the remodeling capabilities of cancellous bone with the strength advantages of cortical bone needed for dimensional ridge augmentation.¹²

2. Time-Saving

- Saves time, helps to reduce pain, and can shorten the patient's rehabilitation period by eliminating the need to harvest an autogenous graft.¹⁰

3. Tutoplast Process

- Sterilized and preserved using the proprietary Tutoplast process, Puros Block Allograft offers a high-quality option for successful bone regeneration.¹⁰
- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, original porosity.¹³



Puros Allografts – Filling nature's void.

A comprehensive line of allografts for bone and soft tissue augmentation needs.

A Clinically Proven Documented Solution For Restoring Volume To Severely Resorbed Ridges.¹⁰⁻¹¹

Clinical advantages of Puros Block Allografts:

- Outcomes¹⁰⁻¹¹ have been comparable to those generally reported for autogenous block grafting, but without the need for a second surgery to harvest native bone.¹⁴⁻¹⁵
- Clinical reports have documented the ability to stabilize implants 5–6 months after grafting.¹⁰⁻¹²
- Quick hydration, five-year shelf life and room temperature storage.

Take A Closer Look



Fig A
3D analysis of bony defect.

A



Fig B
Puros Allograft Block in place.

B



Fig C
Revascularized block graft after healing time.

C

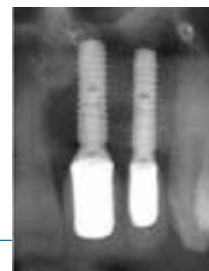


Fig D
Stable bone level 4 years follow-up.

D

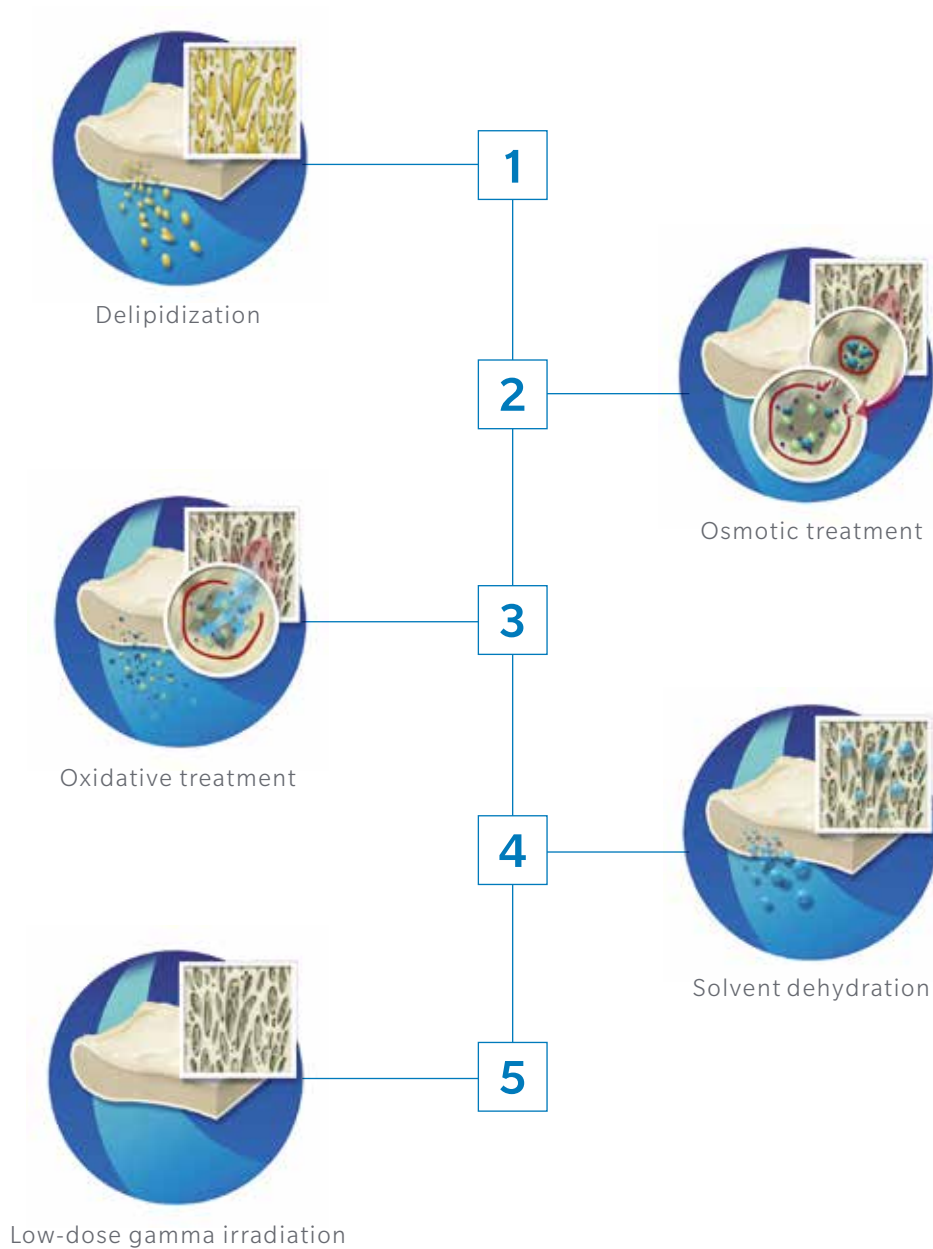
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Ordering Information

Catalog Number	Description
67220	Puros Allograft Block, 15 x 10 x 9 mm
67221	Puros Allograft Block, 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

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- Laino L, Iezzi G, Piattelli A, Lo Muzio L, Cicciu M. Vertical ridge augmentation of the atrophic posterior mandible with sandwich technique: bone block from the chin area versus corticocancellous bone block allograft—clinical and histological prospective randomized controlled study. *Biomed Res Int* (2014) 2014:982104.
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- Data on file RTI
- Levin L, Nitzan D, Schwartz-Arad D. Success of dental implants placed in intraoral block bone grafts. *J Periodontol.* 2007;78:18-21.
- von Arx T, Buser D. Horizontal ridge augmentation using autogenous block grafts and the guided bone regeneration technique with collagen membranes: a clinical study with 42 patients. *Clin Oral Impl Res.* 2006;17:359-366.

The Unique Tutoplast Process



The proprietary Tutoplast process assures the highest standard of tissue safety and quality with minimal risk of disease transmission.¹³

The process preserves the valuable collagen matrix and tissue integrity while inactivating pathogens and gently removing unwanted materials, such as cells, antigens and viruses.¹³ The result is safe, biocompatible tissue.

For over 40 years, Tutoplast processed tissues have been safely used in more than three million procedures.¹³



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Name of the medicinal product: PUROS® ALLOGRAFT | **Composition:** Human cancellous tissue (with cortical component in the Puros® Allograft Blend version), preserved using the Tutoplast® process, sterilised by gamma irradiation. | **Therapeutic indications:** To cover or fill bone defects or to create bony structures in maxillofacial surgery. Therapeutic indications for which positive experience has been reported include the following: Regeneration of periodontal bone defects; Regeneration of furcation defects; Regeneration following cyst resection and apicoectomy; Regeneration of extraction sockets; Regeneration of gaps between the alveolar wall and dental implants; Regeneration of defects following block removal; Regeneration of gaps around block grafts; Horizontal alveolar ridge augmentation (particles); Sinus augmentation; Three-dimensional (horizontal and/or vertical) alveolar ridge augmentation (block augmentation). Further applications have been described in other surgical specialties. | **Contraindications:** None known. | **Undesirable effects** (frequency cannot be estimated from the available data): Graft rejection, implant site reaction, graft failure. As with every surgical procedure, there is the possibility of infection due to the procedure itself. | **Warnings:** Store dry, sunlight protected and not over 30 °C. Do not freeze. Discard any unused material; do not resterilise! See also instruction for use. Keep out of reach of children. | **General classification for supply:** Prescription only. | **Further information:** see package leaflet; | **Date of revision of the text:** 07/2017 „10“. | **Pharmaceutical Entrepreneur:** Tutogen Medical GmbH, Industriestraße 6, 91077 Neunkirchen am Brand, Germany | **Co-distributor:** Zimmer Dental GmbH, Wilhelm-Wagenfeld-Str. 28, D - 80807 München.

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