



Puros® Cortical Particulate Allograft



Building bone, naturally.

Puros Cortical Particulate Allograft offers the density and strength of a cortical autograft¹ without the need for costly and invasive bone harvesting.

Long-Lasting Regeneration

- *Puros* Cortical Particulate can be used alone or as a composite graft in space maintenance and volume enhancement procedures²
- Slow-resorbing *Puros* Cortical Particulate maintains an open network for the proliferation of bone-forming cells²
- *Puros* Cortical Particulate is denser than cancellous bone and has been used in applications where cortical particulate is needed³
- Retains the natural collagen matrix and mineral structure of human cortical bone^{1,3}

Clinically Successful

- Cortical particles remodel into a dense lamellar structure without sacrificing ridge contour, and into natural viable bone with similar density to native bone⁴
- When used in a “sandwich” technique for the treatment of localized buccal dehiscence defects, Park and Wang⁵ reported an average gain of 1.8mm in bone thickness.
- Combining *Puros* Cortical Allograft with a combination “sandwich” and mucogingival pouch flap technique, one study achieved 1.5mm to 3.5mm gain in mean ridge thickness, and 84% to 100% gain in mean ridge height.⁶

Safe and Easy to Use

- Sterilized using the proprietary *Tutoplast*® Process.
- Over 35 years of history and more than 3 million documented cases³
- Easy handling, quick hydration, five-year shelf life and room temperature storage.

Puros Allografts – Filling nature’s void.

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

Clockwise from top left: Puros Demineralized Bone Matrix (DBM) Putty, Puros Pericardium Allograft Membrane, Puros Dermis Allograft Tissue Matrix, Puros Cancellous Particulate Allograft, Puros Cortical Particulate Allograft, Puros Block Allograft



Puros Cortical Particulate Allograft

The unique Tutoplast Process

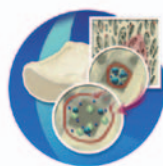
The proprietary *Tutoplast* Process assures the highest standard of tissue safety and quality with minimal risk of disease transmission.^{1,10}

The process preserves the valuable collagen matrix and tissue integrity while inactivating pathogens and gently removing unwanted materials, such as cells, antigens and viruses.^{1,10} The result is safe, biocompatible tissue.

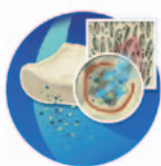
For over 35 years, *Tutoplast*-processed tissues have been safely used in more than 3 million procedures.³



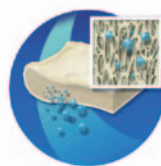
Delipidization



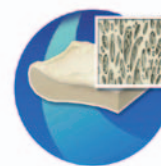
Osmotic treatment



Oxidative treatment



Solvent dehydration



Low-dose gamma irradiation

Clinical effectiveness of grafting with cortical particulates

Grafting with cortical particulates has been shown to produce successful clinical results in:

- Sinus augmentation⁷⁻⁸
- Regeneration of gaps around block grafts⁹
- Alveolar ridge augmentation⁴⁻⁶
- “Tent” and “sandwich” grafting techniques^{4,6}

Take a closer look



Figure A
Severely resorbed pre-operative ridge.

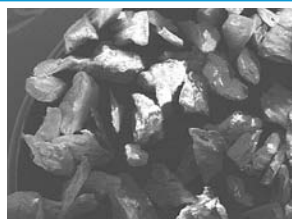


Figure B
SEM of Puros Cortical Particulate.



Figure C
Puros Cortical Particulate in place.



Figure D
3 months postoperative: ridge width restored to natural contours (4mm increase).

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Ordering information

Catalog Number	Description
8271R	Puros Cortical Particulate, 0.5cc, 250-1000
8272R	Puros Cortical Particulate, 1cc, 250-1000
8273R	Puros Cortical Particulate, 2cc, 250-1000
8274R	Puros Cortical Particulate, 0.5cc, 1000-2000
8275R	Puros Cortical Particulate, 1cc, 1000-2000
8276R	Puros Cortical Particulate, 2cc, 1000-2000

¹ Schoepf C. Allograft safety: efficacy of the Tutoplast® Process. *International Magazine of Oral Implantology*. 2006;1:10-15.

² Wang HL, Boyapati L. “PASS” principles for predictable bone regeneration. *Implant Dent*. 2006;15:8-17.

³ Data on file with RTI Biologics, Inc.

⁴ Le B, Burstein J, Sedghizadeh P. Cortical tenting grafting technique in the severely atrophic ridge for implant site preparation. *Implant Dent*. 2008;17:40-50.

⁵ Park SH, Wang HL. Management of localized buccal dehiscence defect with allografts and acellular dermal matrix. *Int J Periodontics Restorative Dent*. 2006;26:589-595.

⁶ Park SH, Wang HL. Mucogingival pouch flap for sandwich bone augmentation: technique and rationale. *Implant Dent*. 2005;14:349-356.

⁷ Schlegel KA, Schultze-Mosgau S, Wiltfang J, Neukam FW, Rupprecht S, Thorwarth M. Changes in mineralization of free autogenous bone grafts used for sinus floor elevation. *Clin Oral Implants Res*. 2006;17:673-678.

⁸ Rubio de Rezende ML, Nascimento de Melo LG, Hamata MM, Monteiro-Amado F. Particulate inlay nasal graft with immediate dental implant placement in a patient with repaired alveolar cleft: case report. *Implant Dent*. 2008;17:332-338.

^{9,10} References available upon request.

To learn more about **Puros Cortical Particulate Allograft**, please visit us online at www.zimmerdental.com or to speak to a sales representative, call 1 (800) 854-7019.

To receive our eNews visit us at http://www.zimmerdental.com/news_eNewsLetterSignUp.aspx

For more information about our Products, Regenerative Materials and Educational Opportunities, contact us:

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