

Setting the Pace
**New Allografts that
Expand Your Reach**

Our
vallos[®]
portfolio of
granules & fibers
is growing!



Innovating to Meet Your Needs

vallos®

With more than 35 years experience in oral regeneration and the leader in the xenograft market worldwide, Geistlich understands that in certain clinical situations, rapid turn over of new bone is important. That's why we have expanded our bone substitute portfolio to allow you more options to set the pace for treatment success.

A comprehensive portfolio to meet your unique needs:

- > Single source supplier ensures consistent product quality¹
- > A full portfolio offering that includes, granules, fibers, demineralized, mineralized and blended allografts
- > Minimal tissue processing maintains the biointegrity and biochemistry of the graft, which provides a suitable scaffold for bone repair¹

Focused on your growing regenerative needs, our family of **Geistlich Select** products combines unique characteristics and compatibility with existing Geistlich biomaterials.



Extensive research and collaboration have created a partnership to bring you select allograft materials designed for clinical versatility and success. **vallos®** and **vallos®f** offer clinicians more options to enhance their ability to manage a variety of clinical situations.

The optimal allograft scaffold



vallos[®] allografts are natural bone graft substitutes, which due to the preservation of inherent biological properties, provides the optimal characteristics and scientific properties required for bone formation.¹ With our comprehensive allograft portfolio, you can be assured of the versatility required to meet your regenerative needs.

Osteoconductive:


This porous interconnected scaffold allows for the ingrowth of host capillaries and mesenchymal stem cells (MSCs). The scaffold has a similar structure to that of cancellous bone, in which large trabecular surface area encourages revascularization and incorporation into the graft.²

Osteoinductive:

Anatomical levels of growth factors present in demineralized bone are essential to healthy bone formation.³ Aseptic processing retains the endogenous growth factors found in the bone. Growth factors present in MTF demineralized bone are characterized as BMPs, FGFs and angiogenic growth factors¹ and are known to be beneficial to bone formation.³

Cell friendly structure:

The natural porous structures of **vallos**[®] allografts allow for cellular attachment and infiltration into the scaffold.¹



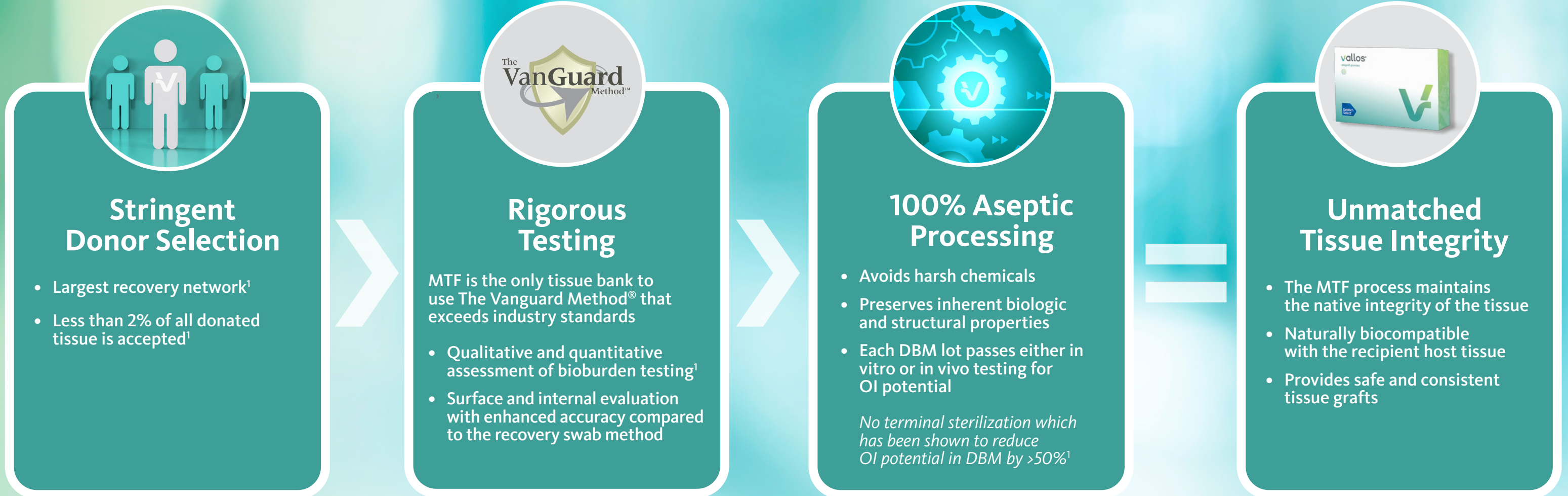
It Starts with a Trusted Partner

Geistlich is excited to introduce our partner MTF Biologics®, a non-profit service organization dedicated to providing safe and effective allograft tissue. Standards for safety and quality are set by a Medical Board of Trustees to ensure the same processes for donor recovery and processing – delivering you a consistent graft.



35 years experience
>150,000 tissue donors processed
>10 million grafts provided
Zero viral disease transmission

The MTF Difference™



If you start with better tissue, *you end with better tissue.*

Allografts to Power Your Regenerative Regimen

vallos® mineralized cortical & cancellous options:

- > Osteoconductive scaffold¹ which encourages bone formation and allows remodeling with the patient's own bone
- > 80% cortical and 20% cancellous bone ratio by weight which most closely represents the skeletal mass ratio in the human body⁴
- > Cortico-cancellous bone is known to provide a natural scaffold for cell attachment and infiltration²

Product Number	Product Description	Size
502108	S vallos® mineralized cortical allograft	0.25 cc
502110	S vallos® mineralized cortical allograft	0.5 cc
502112	S vallos® mineralized cortical allograft	1 cc
502114	S vallos® mineralized cortical allograft	2 cc
502109	L vallos® mineralized cortical allograft	0.25 cc
502111	L vallos® mineralized cortical allograft	0.5 cc
502113	L vallos® mineralized cortical allograft	1 cc
502115	L vallos® mineralized cortical allograft	2 cc

Product Number	Product Description	Size
502208	S vallos® mineralized cancellous allograft	0.25 cc
502210	S vallos® mineralized cancellous allograft	0.5 cc
502212	S vallos® mineralized cancellous allograft	1 cc
502214	S vallos® mineralized cancellous allograft	2 cc
502209	L vallos® mineralized cancellous allograft	0.25 cc
502211	L vallos® mineralized cancellous allograft	0.5 cc
502213	L vallos® mineralized cancellous allograft	1 cc
502215	L vallos® mineralized cancellous allograft	2 cc

Product Number	Product Description	Size
502308	S vallos® mineralized cortico-cancellous allograft	0.25 cc
502310	S vallos® mineralized cortico-cancellous allograft	0.5 cc
502311	S vallos® mineralized cortico-cancellous allograft	1 cc
502312	S vallos® mineralized cortico-cancellous allograft	2 cc

Every vallos® allograft provides:

- 100% bone with no synthetic carrier
- Excellent handling properties
- Stability at ambient temperature for 3 years



vallos®
allograft granules



S Small Granules
(212-850 µm)

S Small Granules
(200-1000 µm)

L Large Granules
(850 – 2000 µm)



vallos[®]f demineralized fibers:

- > Rapid rehydration with saline, blood and bone aspirate, ready for use in <2 minutes
- > Contains 100% demineralized bone, while retaining a putty-like consistency that is packable and conforms to the shape of the defect
- > Large surface area of elongated fibers creates an environment that allows for cell attachment and infiltration⁵
- > Fibers are consistently osteoinductive when compared to competing allografts

Product Number	Product Description	Size
503410	vallos [®] f demineralized cortical allograft	0.5 cc
503411	vallos [®] f demineralized cortical allograft	1 cc
503412	vallos [®] f demineralized cortical allograft	2.0 cc



vallos[®]f
allograft fibers



vallos[®] demineralized cortical:

- > 100% demineralized cortical bone
- > Processed to preserve native structural & biologic properties¹
- > Consistently osteoinductive¹

Product Number	Product Description	Size
503108	S vallos [®] demineralized cortical allograft	0.25 cc
503110	S vallos [®] demineralized cortical allograft	0.5 cc
503112	S vallos [®] demineralized cortical allograft	1 cc
503114	S vallos [®] demineralized cortical allograft	2 cc
503109	L vallos [®] demineralized cortical allograft	0.25 cc
503111	L vallos [®] demineralized cortical allograft	0.5 cc
503113	L vallos [®] demineralized cortical allograft	1 cc
503115	L vallos [®] demineralized cortical allograft	2 cc

Demineralized allografts

A demineralized bone matrix has the advantage of turning over natural bone more rapidly and has been shown to regenerate new vital bone after 18-20 weeks.⁶

vallos[®] demineralized cortico-cancellous:

- > 80% cortical bone, 20% cancellous
- > Osteoconductive porous scaffold that is demineralized to provide acute osteoinductive potential²
- > Pre-blended with no need to mix various graft materials

Product Number	Product Description	Size
503308	S vallos [®] demineralized cortico-cancellous allograft	0.25 cc
503310	S vallos [®] demineralized cortico-cancellous allograft	0.5 cc
503312	S vallos [®] demineralized cortico-cancellous allograft	1 cc
503314	S vallos [®] demineralized cortico-cancellous allograft	2 cc



Marketed by:

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EXACTLY
like no other.

For more information, please visit:

www.geistlich.us

CAUTION: Federal law restricts these devices to sale by or on the order of a dentist or physician.

For more information on contraindications, precautions, and directions for use, please refer to the Instructions for Use at: dental.geistlich-na.com/ifu

vallos®

allograft granules and fibers



vallos® granules – ideally suited for smaller routine defects.



vallos® fibers – for larger more complex defects.

To learn more, visit
www.geistlich.us



References

- 1 Data on file, MTF Biologics
- 2 Roberts TT and Rosenbaum AI. Bone grafts, bone substitutes and orthobiologics; The bridge between basic science and clinical advancements in fracture healing. 2012. Organogenesis 8 (114-124)
- 3 Gruskin E, et al. Demineralized bone matrix in bone repair; History and use. Advanced Drug Delivery Reviews, 2012; 64, pp. 1063-1077.
- 4 Metabolic Bone Disease and Clinically Related Disorders (Third Edition), 1998, Pages 237-273, 274e-280e
- 5 Abedi A, et al. J. Bone Joint Surg Am. 2020 Dec 16;102(24):e135.
- 6 Robert A Wood & Brian L Mealey: J Periodontol. 2012 Mar;83(3):329-36. (Clinical Study)



This tissue is provided as a generous gift from a donor and the donor's family.