

# AmGraft<sup>®</sup>

**ENGINEERED WITH** HAPTOTECH ATRS

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## Dental Bone Regeneration



**V**ENTAS BIO<sup>®</sup>  
THINK BIOLOGY.

# AmGraft<sup>®</sup>

AmGraft marks a substantial stride in the field of regenerative materials, resulting from the meticulous processing of dentin matrix. It is characterised by four fundamental properties: **Biocompatibility, Hydrophilicity, Safety, and Volume Stability.**

AmGraft presents a noteworthy option in the realm of dental bone regeneration. It is designed to aid in new bone growth and aligns well with existing bone structures. Suitable for various dental regeneration processes, AmGraft is recognised for its consistent performance and contribution to dental bone regeneration.

The biocompatible nature of AmGraft plays a crucial role in its design, aiming to lessen the chances of inflammatory reactions and prioritising patient safety and comfort. Additionally, AmGraft is designed to provide an effective bone-to-implant contact rate, striving to enhance the healing process.

AmGraft is crafted with an emphasis on maintaining its structure and functionality over time, aiming for resilience in dental bone regeneration. Its designed slow resorption process is intended to support new bone formation while minimizing volume loss.

AmGraft is intended for a range of applications in dentoalveolar surgery, specifically for filling and augmenting bone voids or gaps. Its clinical applications are varied, including:

- Augmentation or reconstructive treatment of the alveolar ridge.
- Filling alveolar bone defects following root resection, apicoectomy, and cystectomy.
- Addressing alveolar defects after tooth extraction.
- Management of periodontal alveolar bone defects.
- Handling peri-implant alveolar bone deficiencies.

AmGraft is developed with the aim of meeting the diverse needs of modern dental bone regeneration, offering a choice for professionals in various dental scenarios.

**AmGraft** is not just a product; it's a beacon of quality and excellence in dental bone regeneration. It is the go-to choice for dental professionals seeking comprehensive and robust solutions for bone regeneration. AmGraft unites effective bone integration, slow resorption, and superior healing support.

**AmGraft<sup>®</sup>**  
Freeze Dried Dentin Matrix



## Calcium Phosphate Compositions

- Encompassing hydroxyapatite, octacalcium phosphate, and tricalcium phosphate, this amalgamation aids in promoting bone formation.

## Pore Interconnectivity

- Facilitates molecular transport through capillarity, with pore sizes ranging from 0.9-2.0  $\mu\text{m}$  and a volumetric porosity between 12-32%.

## Partial Collagen Matrix Exposure

- Provides an optimised substrate for cellular attachment, initiating cellular signalling pathways for osteogenesis.

## Surface Topography

- Augments cellular adherence and proliferation, characterized by a surface roughness (Ra) value of 0.67-0.88 $\mu\text{m}$ .



AmGraft in the form of chip size between 0.5mm to 1.0mm

| Part number | Volume     | Chip size      |
|-------------|------------|----------------|
| AM025       | 4 x 0.25cc | 0.5mm to 1.0mm |

HSA Product Notification No. CTGT0041N

Regulatory clearance or licensing status may vary across different countries. Please reach out to a Ventas Bio representative to obtain the most current information regarding product availability.

The images presented in this catalogue are for illustrative purposes only. The dimensions of the depicted products may not correspond precisely with the actual product size.

Ventas Bio retains the right to implement technical modifications without prior notification.

## About Ventas.Bio

### Ventas Bio: Pioneering the Future of Regenerative Medicine

Ventas Bio is an innovative medical device company that spearheads research, development, and manufacturing of state-of-the-art regenerative biomaterials. Specialising in tissue and bone regeneration, we are deeply invested in harnessing the power of biology to heal.

Our groundbreaking, patent-pending technology propels an efficient and cost-effective manufacturing process. This unique approach amalgamates naturally occurring growth factors with cutting-edge biomaterials, promising superior outcomes in tissue and bone regeneration that supersede conventional expectations.

We are driven by our defining mantra, "Think Biology," steering our focus towards exploiting the latest biological and scientific principles to shape our product development. Our diverse portfolio bears the hallmark of our commitment to pioneering solutions that not only address the significant unmet needs in orthopaedic and dental markets but also improve patient outcomes on a global scale.

The heart of Ventas Bio is a dynamic team of experienced scientists and industry experts. Their dedication to advancing the field of regenerative medicine fuels our momentum, driving us to develop accessible and effective solutions that cater to pressing medical needs worldwide.

As we forge ahead, our sights are set on expanding the horizons of our research and development efforts. We are excited to explore the realm of wound healing, aiming to leverage our biological expertise to create innovative solutions that significantly improve healing outcomes and patient experiences.

Our dedication extends beyond merely creating groundbreaking products; we strive to make them accessible. This commitment to affordability ensures our revolutionary solutions are within reach for patients across the globe, irrespective of geographical or socioeconomic constraints.

Ventas Bio proudly operates in strict compliance with all pertinent regulatory standards and guidelines, with our Quality Management System (QMS) aligning with ISO 13485:2016. This commitment to quality underscores every facet of our operations, from research and product development to customer service.

At Ventas Bio, we are more than just a medical device company. We are shaping the future of regenerative medicine, creating innovative solutions, and relentlessly pursuing the betterment of patient health and well-being. As we venture into the exciting frontier of wound healing, we continue to embody our role as a trailblazer in the global biotechnology landscape.