



A Trusted Standard in Bone Grafting





DBX[®]: The Name You Trust in DBM— And for Good Reason

DBX Demineralized Bone Matrix

For decades, DBX has been a trusted name in DBM, earning its reputation through years of proven performance in both preclinical animal models and in clinical studies.¹⁻⁴ This legacy of success is built on MTF Biologics' premium DBM formulation, which combines high-quality donor tissue with a scientifically optimized sodium hyaluronate carrier.



bone content by volume

DBX Putty Formulation

Inductivity You Can Rely On: Every Lot Confirmed

The osteoinductive potential of DBX is consistently validated, thanks to rigorous lot-by-lot testing conducted by MTF Biologics to confirm osteoinductive potential. Given the inherent variability in donor tissue, this testing ensures every graft meets the highest clinical standards, providing confidence in the bone growth potential of DBX.

MTF's proprietary methods used to preserve the native matrix structure and bone forming proteins have been validated through in vivo models for osteoinductivity, such as ectopic implantation in athymic mice, and validated in vitro assays. This robust approach ensures the preservation and availability of key growth factors, including:



mtfbiologics 🖌 KOLOSIS

Clinical Confidence Backed by Evidence

DBX stands as a leader with over two decades of clinical experience and extensive published clinical data, and scientific data^{1-4, 6-8} reflecting a steadfast commitment to advancing the science of bone grafting. With studies demonstrating its effectiveness in spinal fusion and trauma applications, DBX has earned its place as a benchmark for published outcomes.

When you choose DBX, you're choosing a graft backed by decades of research and trusted by surgeons worldwide.

Aseptic Processing: The Key to Allograft Tissue Performance

MTF ensures that DBX is processed with a focus on preserving its biological integrity, avoiding the negative impacts of terminal sterilization with gamma or e-beam irradiation. Research demonstrates that terminal sterilization, while common in the industry, can significantly impair the structural and functional properties of DBMs.⁹



Figure 1. Scanning electron microscopy images at 60,000X magnification comparing three donor matched samples: non-irradiated demineralized bone matrix (DBM) (control), e-beam irradiated DBM, and gamma-irradiated DBM.

Matrix Stability: Terminal sterilization distorts the surface morphology of the collagen matrix, as observed under SEM imaging. These structural changes can compromise the matrix's ability to support cell attachment and retain osteoinductive factors critical for bone healing.⁹

Kolosis and MTF Biologics: A Proven Partnership in Bone Grafting

Partnering with MTF Biologics and Kolosis is an ideal choice for surgeons, health systems, and the sales professionals who support them. Together, we deliver best-in-class technologies rooted in MTF's 35+ years of excellence in bone graft science and pioneering advancements. Complementing this legacy, Kolosis brings a pure-play focus on biologics, driving innovation and delivering execution that supports the requirements of modern surgical care.



Product List

DBX Putty	
Size	Order #
1cc	423401
2.5cc	423402
5cc	423405
10cc	423410

DBX Mix	
Size	Order #
2.5cc	423602
5cc	423605
10cc	423610
20cc	423620

MTF Biologics Customer Service 1-800-433-6576

Orders: mtfop@mtf.org All other inquiries: mtfcs@mtf.org

MTF Biologics Reimbursement Support 1-866-369-9290

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Learn More



¹Becker VV, Nardone E, McDonnell D, et al. 109.Comparision of Autograft to DBX Demineralized Bone Matrix Putty Combined with Autograft used in Posterolateral Lumbar Fusion. The Spine Journal. July-August 2005; 5(4)S56-S57. cs)

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⁴Wildemann B, Kadow-Romacker A, Haas NP, Schmidmaier G. Quantification of Various Growth Factors in Different Demineralized Bone Matrix Preparations. 2006. J Biomed Mater Res A. Nov 21. ⁵Data on File (MTF Biologics).

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*Shankar, G., Tabbaa, S., Davidson, E., El Naga, A. (2024, December 11-14) Both Terminal E-beam and Gamma Irradiation Negatively Impact Biological Properties of Demineralized Bone Matrices [Virtual Poster]. Cervical Spine Research Society 52rd Annual Meeting. Chicago IL.

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