

TREL-X PRESS™

DEMINERALIZED BONE MATRIX

Powered by *Accell* 

 **INTEGRA™**

TREL-XPRESS™

DEMINERALIZED BONE MATRIX

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Superior Handling

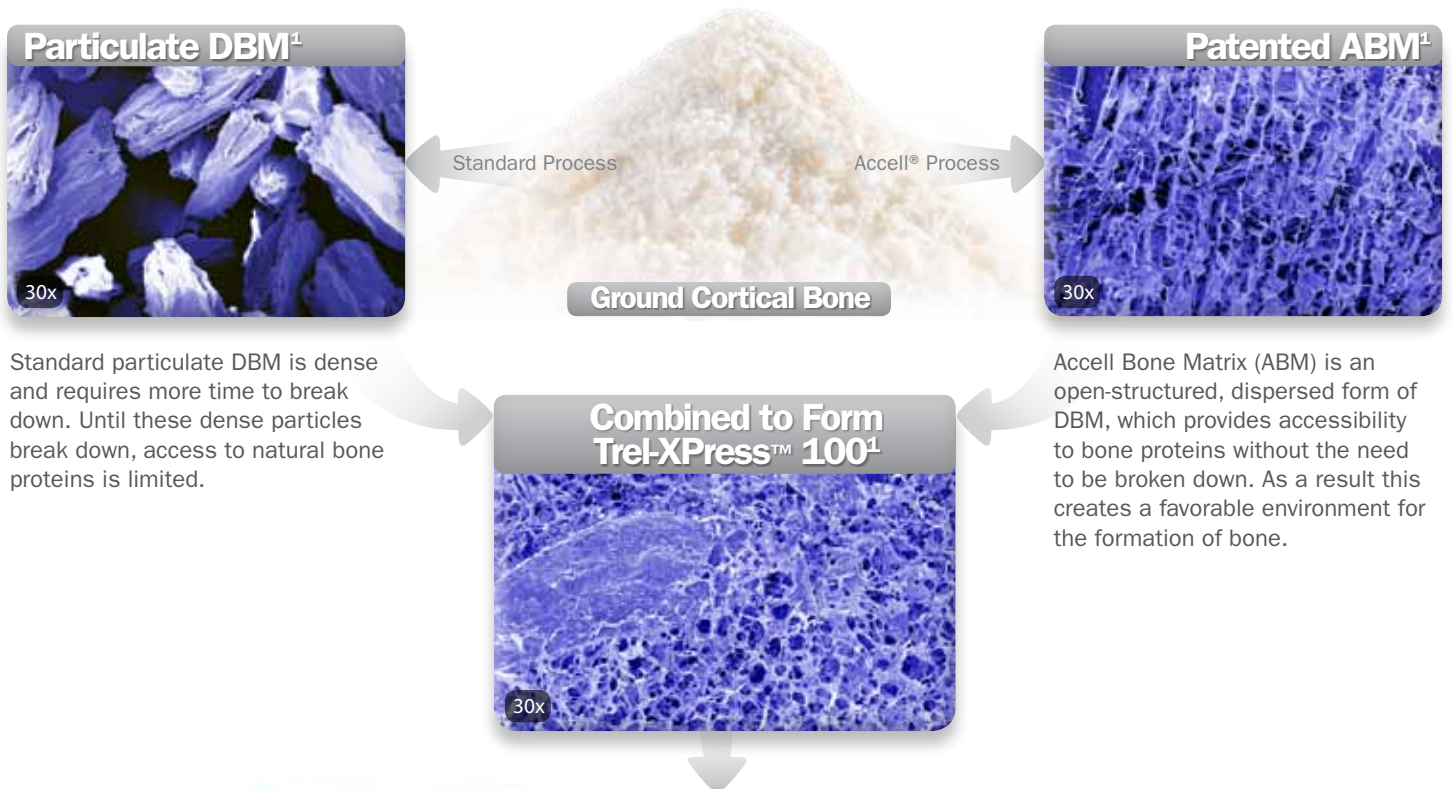
Trel-XPress™ 100 Demineralized Bone Matrix incorporates a poloxamer Reverse Phase Medium (RPM), a highly biocompatible carrier. This unique thermoreversible carrier allows Trel-XPress™ 100 to meet the needs of challenging surgical applications where robust handling is essential.

- At room temperature, Trel-XPress™ 100 is malleable and easily extruded from the syringe.
- At body temperature, Trel-XPress™ 100 is more viscous, resists irrigation and minimizes graft migration.



The Accell Advantage — What's the Difference?

Trel-XPress™ 100 combines patented ABM and particulate DBM



Standard particulate DBM is dense and requires more time to break down. Until these dense particles break down, access to natural bone proteins is limited.

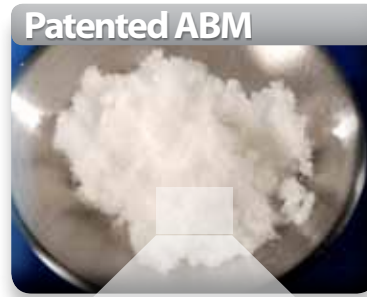
Accell Bone Matrix (ABM) is an open-structured, dispersed form of DBM, which provides accessibility to bone proteins without the need to be broken down. As a result this creates a favorable environment for the formation of bone.



The combination of ABM and particulate DBM provides for both immediate and sustained accessibility to bone proteins which are important for osteogenesis.²

What is Our Patented Accell® Bone Matrix?

Particulate DBM is formed by removing the mineral component of ground cortical bone.



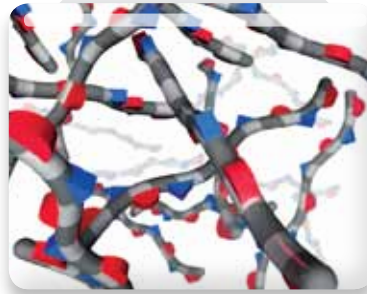
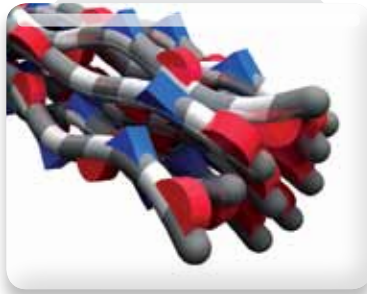
Accell® Bone Matrix is transformed from particulate DBM using the patented Accell Process.

At higher magnification, DBM can be seen as a dense matrix.



At higher magnification, ABM can be seen as a white, highly porous matrix.

Particulate DBM consists of a highly dense matrix of Type-I Collagen and naturally occurring growth factors, with limited accessibility.



ABM consists of an open pore structure with high surface area. The resultant scaffold provides accessibility to bone proteins, which creates a favorable environment for the formation of bone.

Graphically shown, wavy lines represent Type-I Collagen. The blue and red symbols denote naturally occurring growth factors in bone.

Accell® Bone Matrix's increased surface area provides access to natural bone proteins.

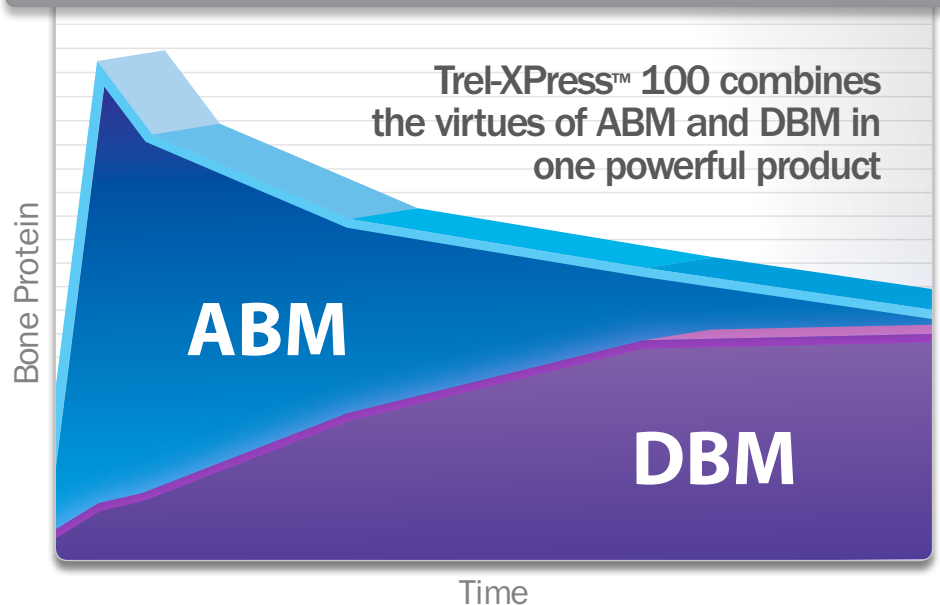
Natural bone protein content of ABM and particulate DBM was measured in vitro over time using an Enzyme Linked Immunosorbent Assay (ELISA). The results are shown graphically and indicate that bone protein was detectable in a saline solution containing ABM at earlier time points compared to that of particulate DBM.

The higher surface area and more open pore structure of ABM provides accessibility to the bone protein, without the need to be broken down.

This analysis shows that while ABM provided early accessibility of natural bone protein, particulate DBM provides for accessibility of natural bone protein at later time points.

Osteoinductive Potential – *In Vitro* Measurement³

Accell® Bone Matrix (ABM) vs. Demineralized Bone Matrix (DBM)



TREL-XPRESS™

DEMINERALIZED BONE MATRIX

Powered by Accell



Contact Integra Customer Service

877.444.1122

www.ILSTraining.com



Description

Catalog Number

2.5 cc syringe
5 cc syringe
10 cc syringe

XPRES125
XPRES105
XPRES110

References

- 1 Data on file.
- 2 Lian J and Stein G, The Cells of Bone, (1999) Dynamics of Bone and Cartilage Metabolism (Ed Seibel J).
- 3 R&D Systems, Inc.: Quantikine(R) - BMP-2 Immunoassay, For the quantitative determination of bone morphogenetic protein 2 (BMP-2) concentrations in bone tissue extracts and cell culture supernates.

INDICATIONS FOR USE

Trel-Xpress™ 100 Demineralized Bone Matrix is intended for filling voids and gaps in the skeletal system that are not intrinsic to the stability of the bony structure. Trel-Xpress™ 100 Demineralized Bone Matrix is indicated for use as a bone graft extender in the spine, extremities and pelvis, or as a bone void filler in the extremities and pelvis. The voids or gaps may be surgically created defects or the result of traumatic injury to the bone.

WARNINGS AND PRECAUTIONS

Trel-Xpress™ 100 Demineralized Bone Matrix is sterile during the stated shelf life in an unopened and undamaged package. The product must be used prior to the expiration date. Do not use if the packaging has been damaged and/or the product has been contaminated. In the event of contamination, discard the product. Damaged packaging should be returned to Integra LifeSciences Corporation. Appropriate placement and/or fixation are critical factors in the avoidance of potentially adverse effects. As with all biological products, the tissue in Trel-Xpress™ 100 Demineralized Bone Matrix has the potential to transmit infectious agents despite processing treatments, extensive donor screening, tissue selection and laboratory tests. To date, there have been no reports of experimental or clinical viral seroconversion using demineralized bone powder. When filling a closed defect, care must be taken while extruding Trel-Xpress™ 100 Demineralized Bone Matrix from the syringe as possible pressurization of the device could result in fat embolization and/or embolization of the material into the blood stream. As with any surgical procedure, the possibility of infection exists. Although the production technique is designed to eliminate antigenic properties of the product, the possibility of such a reaction is present. Adverse outcomes potentially attributable to the product must be reported promptly to the manufacturer. If any dissatisfaction with the product performance or packaging occurs, notify Integra LifeSciences Corporation immediately and promptly return product and/or packaging. When introducing Trel-Xpress™ 100, care must be taken to avoid excessive compaction. Overfilling the implantation site must be avoided to achieve a tension-free closure of the wound. For further information refer to the product insert.


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