

Revolutionizing Joint and Bone Regeneration

Xerthra
BMAC
BONE MARROW CONCENTRATION KIT

Offering higher concentration of healing elements, enabling faster and effective recovery⁽¹⁾.



KEY APPLICATIONS OF XERTHRA™ BMAC

- Knee meniscus regeneration
- Biological reconstruction of articular cartilage
- Bone marrow edema treatment
- Intra-articular injections for patients with osteoarthritis
- Avascular Necrosis (AVN)⁽²⁾
- Fracture non-unions⁽³⁾

Why Choose Xerthra™ BMAC?

It delivers higher concentration of **Mesenchymal Stem Cells (MSCs)** and **Platelets**, as compared to unprocessed bone marrow aspirate



MESENCHYMAL STEM CELLS (MSCs)

possess strong self-renewal & differentiation potential towards chondrocytes, osteocytes and other joint tissues building cells.



PLATELETS

release PDGF*, VEGF*, CTGF*, and IGF*, enhancing cellular repair and adhesion.

*PDGF - Platelet Derived Growth Factor, VEGF - Vascular Endothelial Growth Factor, CTGF - Connective Tissue Growth Factor, IGF - Insulin-like Growth Factor.

Reference:

- 1) Biovico Research Report Series Volume II - Issue 102.
- 2) Schäfer R, DeBaun MR, Fleck E, Centeno CJ, Kraft D, Leibacher J, Bieback K, Seifried E, Dragoo JL. Quantitation of progenitor cell populations and growth factors after bone marrow aspirate concentration. J Transl Med. 2019 Apr 8;17(1):115.

MAY THE SPORT OF LIFE NEVER STOP®

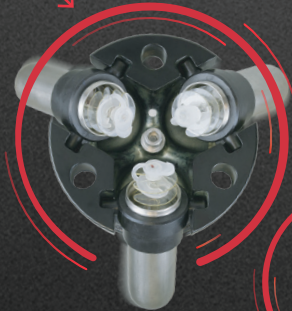
*Data on file

Quick and Reliable Processing



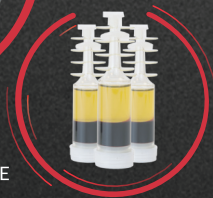
3 x 13.5 ml
of Bone Marrow Aspirate
INITIAL VOLUME

3 x 1.5 ml
ANTICOAGULANT



15 minutes
CENTRIFUGATION TIME

600 x g
CENTRIFUGATION
SPEED



CONCENTRATE
(3 x 2 ml)
6 ml enriched
BMAC

Xerthra™ BMAC PROVIDES⁽¹⁾

- Upto 3.8 X Platelets (PLT)
- Upto 5.3 X Mesenchymal Stem Cells (MSC)
- Upto 3.5 X Leukocytes
- Increased concentration of growth factors: VEGF*, PDGF*, CTGF*, IGF*

*PDGF - Platelet Derived Growth Factor, VEGF - Vascular Endothelial Growth Factor, CTGF - Connective Tissue Growth Factor, IGF - Insulin-like Growth Factor.

Reference:

3) Jäger M, Herten M, Fochtmann U, Fischer J, Hernigou P, Zilkens C, Hendrich C, Krauspe R. Bridging the gap: bone marrow aspiration concentrate reduces autologous bone grafting in osseous defects. J Orthop Res. 2011 Feb;29(2):173-80.



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*Data on file