

# PRIME-XV<sup>®</sup> Chondrogenic Differentiation XSFM

Chondrogenic Differentiation Xeno-Free, Serum-Free Medium  
Catalog # 91138

## FEATURES & BENEFITS

- Supports robust induction of chondrogenesis from human mesenchymal stem/stromal cells (MSCs)
- Manufactured under cGMP conditions
- Available in 100 mL complete component and ready-to-use
- Custom packaging available

## RELATED PRODUCTS:

**PRIME-XV MSC Expansion SFM – Catalog # 91135**

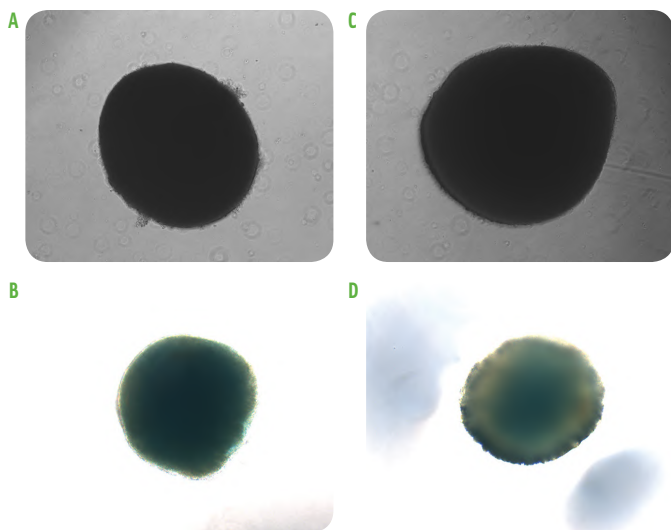
**PRIME-XV Matris F – Catalog # 31001**

**PRIME-XV Human Fibronectin – Catalog # 31002**

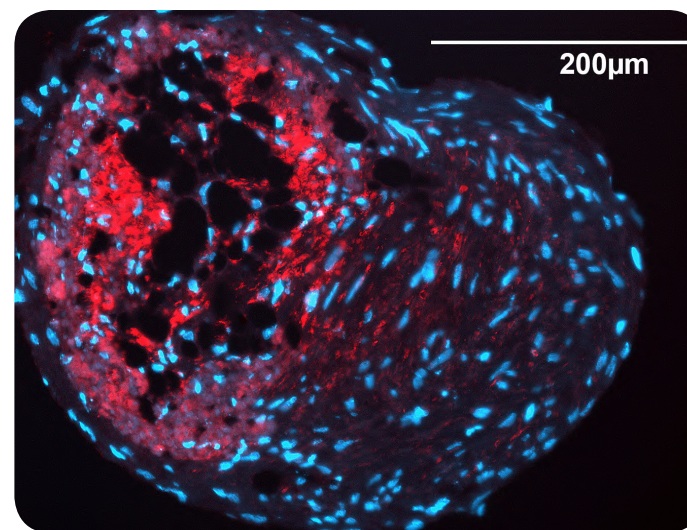
**PRIME-XV Freezis – Catalog # 91139**

**PRIME-XV Osteogenic Differentiation SFM – Catalog # 91132**

**PRIME-XV Adipogenic Differentiation XSFM – Catalog # 91137**



Phase images of human adipose-derived MSCs cultured in PRIME-XV MSC Expansion SFM and differentiated into chondrocytes using PRIME-XV Chondrogenic Differentiation XSFM (A and B) and leading competitor's medium (C and D). Images were taken at day 5 post-induction (A and C). Alcian blue staining of a chondrogenic pellet was performed at day 20 post-induction (B and D). Images were taken at 10X magnification.



Expression of cartilagenous extracellular matrix was verified post-induction. Human adipose-derived mesenchymal stem cells were centrifuged into a pellet and cultured into a compact spheroid with PRIME-XV Chondrogenic Differentiation XSFM. The spheroid was cryosectioned after 20 days. The sections were stained with goat anti-human Aggrecan polyclonal primary antibody followed by tetramethylrhodamine-conjugated rabbit anti-goat secondary antibody (red). Nuclei were counterstained with DAPI (blue).