

## KEL Biotech® MSC Xeno-Free Basal Medium SFM; with Phenol Red

### Faster growth rates and stronger cell yields

KEL Biotech® MSC Xeno-Free Basal Medium SFM;with Phenol Red is a defined, serum-free, xeno-free culture medium designed for optimal growth and expansion of human mesenchymal stem/stromal cells (hMSC) derived from a variety of sources, including bone marrow (BM-MSC), adipose tissue (AT-MSC) and umbilical cord matrix (UC-MSC). MSC Xeno-Free Medium supports long-term growth of hMSC while maintaining their self-renewal and multi-lineage differentiation potential.

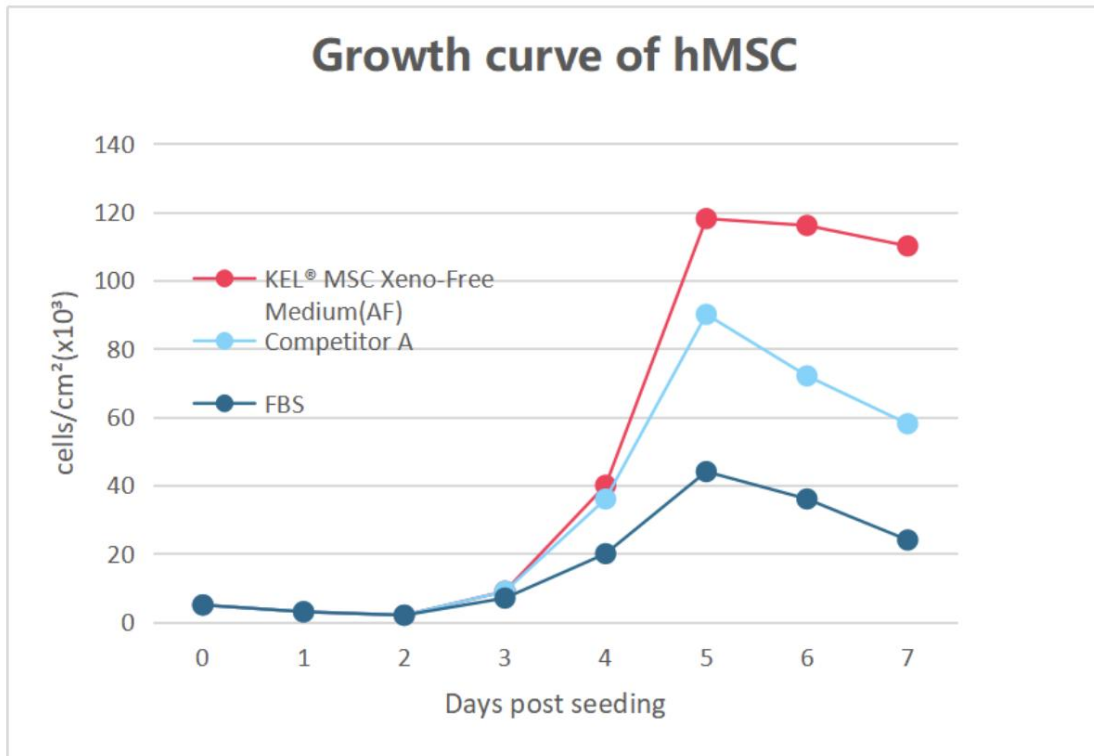


hMSCs cultured in MSC Xeno-Free Medium XF show superior proliferation and self-renewal potential in comparison to serum-containing media and other commercial serum-free media. In addition, hMSCs maintain their proper fibroblast-like cell morphology, tri-lineage differentiation potential, and demonstrate normal hMSC marker profiles, and karyotypic stability over long-term culture.

### Key advantages

- Serum-free, xeno-free, defined culture system
- Superior cell growth compared to serum-containing media
- Supports long-term growth and self-renewal of hMSCs from multiple sources
- Consistent, reliable MSC cultures
- Suitable for the harvest of high quality exosomes (EVs) for future clinical applications
- Eliminates the need to spend time and money pre-qualifying FBS lots
- Manufactured under cGMP

Cells cultured in serum-containing medium do not require an adaptation phase when transitioning to serum-free MSC Xeno-Free Medium.



Differentiation potential

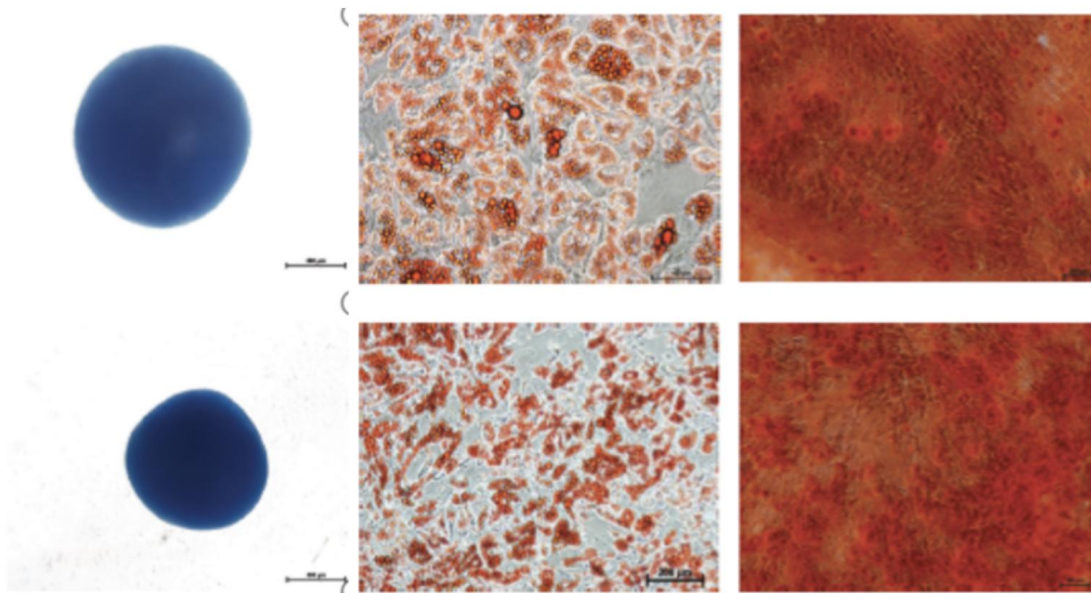
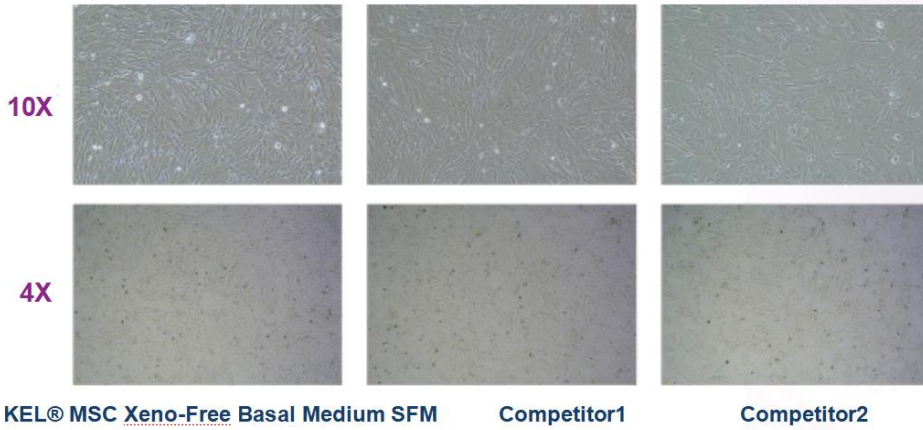


Figure: hMSC-BM (top panel) and hMSC-AT (bottom panel) expanded in MSC Xeno-Free Medium XF for 3-5 passages prior to trilineage differentiation. Representative images of stained adipocytes (Oil Red O), osteocytes (Alizarin Red) and chondrocytes (Alcian Blue). The cells maintain their multilineage differentiation potential.

应用案例

**KEL<sup>®</sup> MSC Xeno-Free Basal Medium SFM**  
**细胞生长形态观测**



■ 使用KEL Biotech<sup>®</sup> MSC Xeno-Free Basal Medium SFM与国际一流品牌对比,细胞生长形态基本一致。

应用案例

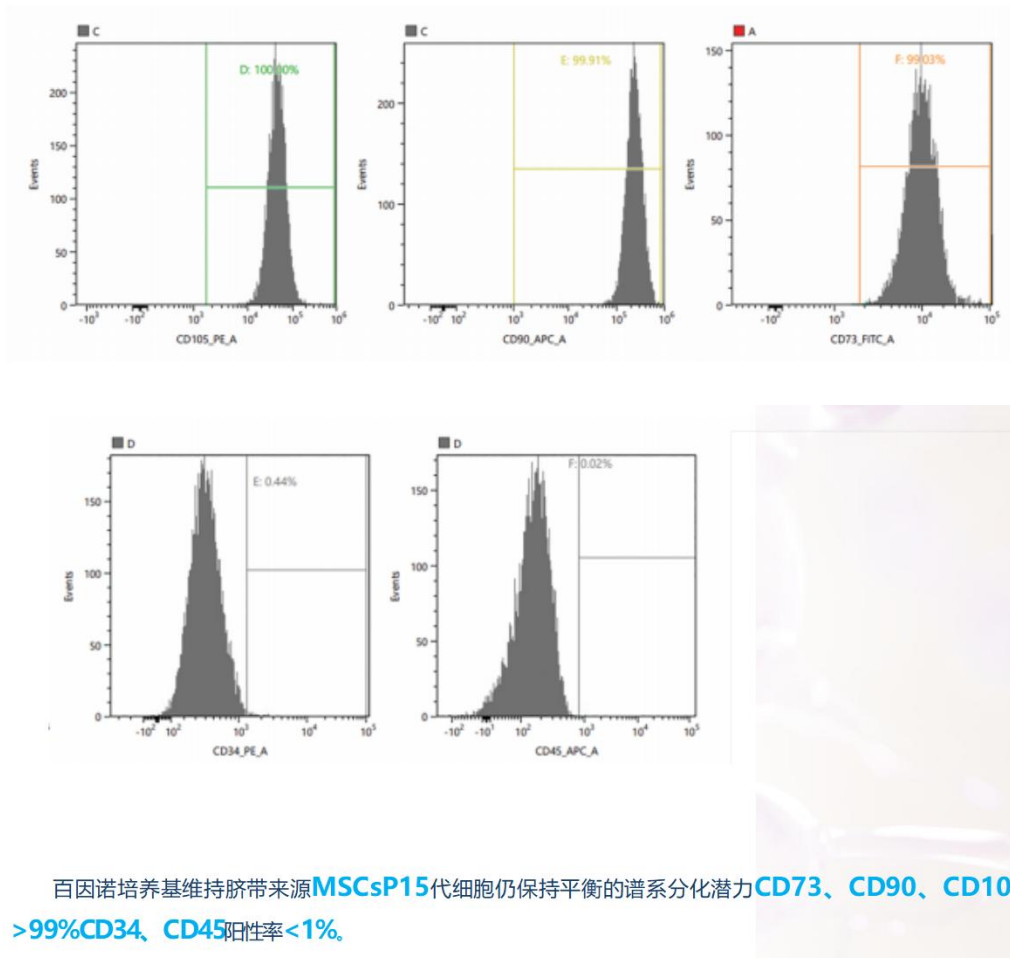
**KEL<sup>®</sup> MSC Xeno-Free Basal Medium SFM**  
**细胞生长形态观测细**  
**胞扩增速率**



■ 使用KEL<sup>®</sup> MSC Xeno-Free Basal Medium SFM与国际一流品牌对比, MSCs的扩增速率,倍数略高。

## 应用案例

### KEL® MSC Xeno-Free Basal Medium SFM细胞表面标志物检测 - P15



### KEL Biotech® MSC 培养基套装：

货号	产品名称	规格	保存温度	状态
KCM118-01	KEL Biotech® MSC Xeno-Free Basal Medium SFM;with Phenol Red	500ml	2-8℃	液体
KCHPL025R	间充质干细胞营养添加物	25ml	-20℃	状态