

PRIME-XV® AFSC Expansion Medium

Human Amniotic Fluid Stem Cell Expansion Medium

Catalog # 91133

FEATURES & BENEFITS

- Supports robust expansion of human amniotic fluid stem cells (AFSCs)
- Maintain pluripotent characteristic of human AFSCs in extended culture
- Manufactured under cGMP conditions
- Available in 250mL complete component and ready-to-use
- Custom packaging available

RELATED PRODUCTS: PRIME-XV Hypothermic Preservation Solution - Catalog # 31003

PRIME-XV Cryogenic Preservation Solution - Catalog # 31004

PRIME-XV Osteogenic Differentiation SFM - Catalog # 91132

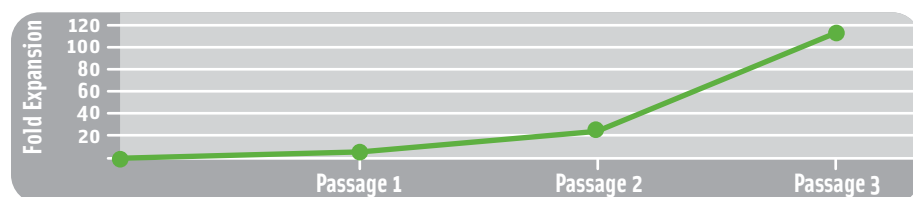


Figure 1

Human AFSCs grown in PRIME-XV® AFSC Expansion Medium over three passages. Fold expansion was calculated as the ratio of final viable cell count by the initial seeded viable cell count at passage 1.

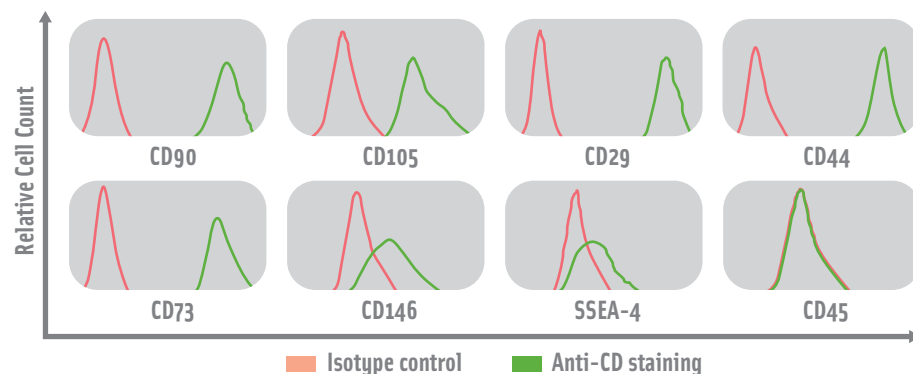
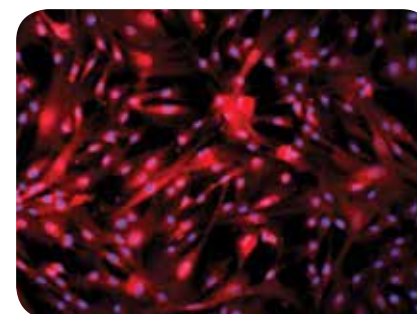


Figure 2

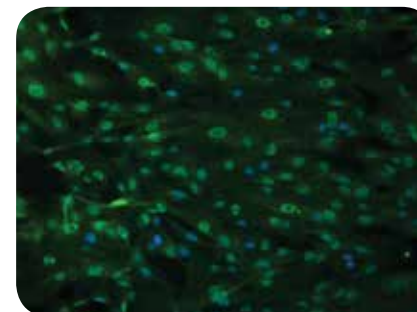
Flow cytometry analysis of human AFSCs after five passages of culture in PRIME-XV AFSC Expansion Medium showed positive stainings for typical mesenchymal markers (CD90, CD105, CD29, CD44, CD73, CD146), and stage-specific embryonic antigen 4 (SSEA-4), but negative for the hematopoietic marker (CD45).



NANOG

Figure 3

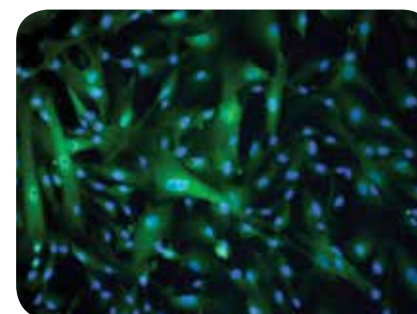
Immunofluorescence analysis of human AFSCs cultured in PRIME-XV AFSC Expansion Medium after six passages showed positive NANOG staining. Nuclei were counterstained with DAPI (blue).



OCT-4A

Figure 4

Immunofluorescence analysis of human AFSCs cultured in PRIME-XV AFSC Expansion Medium after six passages showed positive OCT-4A staining. Nuclei were counterstained with DAPI (blue).



SOX2

Figure 5

Immunofluorescence analysis of human AFSCs cultured in PRIME-XV AFSC Expansion Medium after six passages showed positive SOX2 staining. Nuclei were counterstained with DAPI (blue).

PRIME-XV® AFSC Expansion Medium

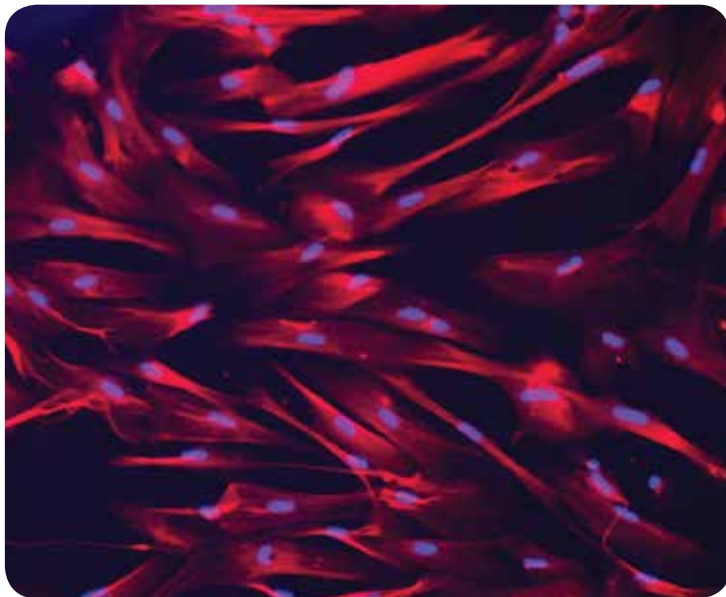


Figure 6

Human AFSCs cultured in PRIME-XV AFSC Expansion Medium for six passages maintained osteogenic differentiation potential. Immunocytochemistry results showed positive Osteocalcin (red) staining after 20 days of differentiation. Nuclei were counterstained with DAPI (blue).