

Cellnest

Cellnest recombinant peptide for optimal cell adhesion and proliferation in xeno-free conditions

Key benefits:

- Chemically defined and animal component free
- Validated for use with human derived MSCs
- Very reproducible and consistent quality
- Enriched with RGD-motifs to enhance cell binding

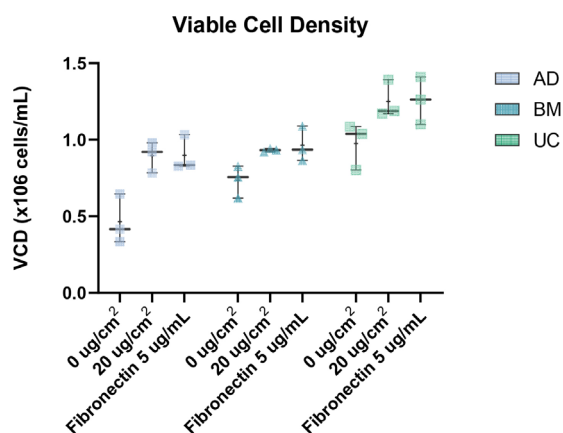


PRODUCT DESCRIPTION

Cellnest recombinant peptide is a chemically defined matrix polypeptide, based on human collagen type I. Because of its well-defined composition and the enrichment with RGD sequences, Cellnest gives optimal cell adhesion and proliferation results. Cellnest is free of animal derived materials and compatible for hMSC expansion in PRIME-XV MSC Expansion XSFM (FUJIFILM Irvine Scientific product catalog number # 91149).

CELL PROLIFERATION

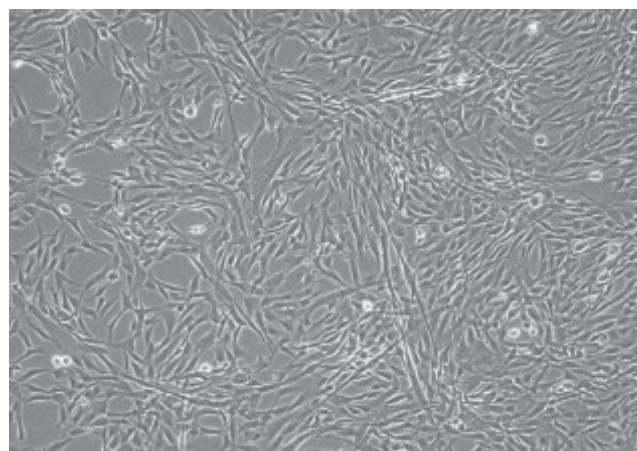
Cellnest supports optimal and reliable cell expansion of human AD-MSCs, UC-MSCs and BM-MSCs.



BM-MSC viable cell density cultured in PRIME-XV MSC Expansion XSFM on Cellnest coated substrate.

CELL MORPHOLOGY

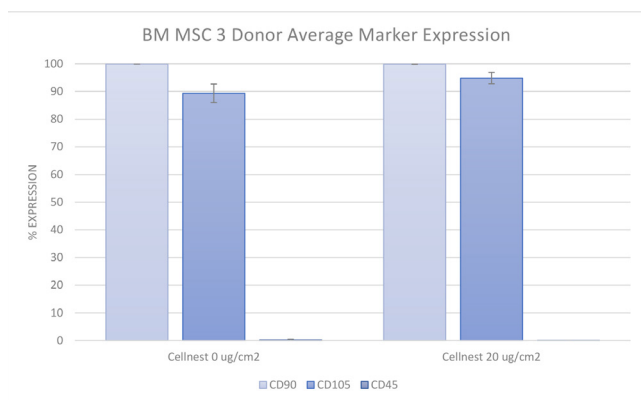
Cellular morphology is well maintained in hMSCs grown on Cellnest.



Morphology of human umbilical cord-derived MSCs cultured in PRIME-XV MSC Expansion XSFM on Cellnest. MSCs were plated and morphology was observed after third passage in PRIME-XV MSC Expansion XSFM.

STEMNESS

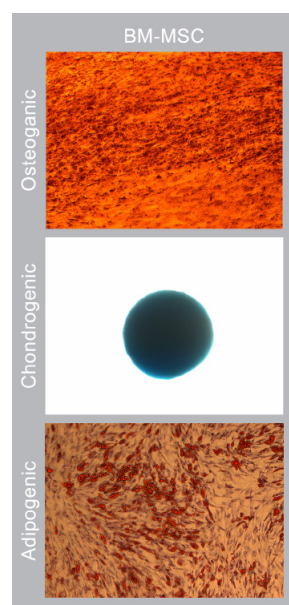
Cellnest preserves marker expression over multiple passages. Expression of mesenchymal stromal cell surface markers CD90, CD105 and the lack of the expression of marker CD45 Cellnest indicates stemness preservation of hMSC.



Flow cytometry analysis of stem cell markers of BM-hMSCs expanded in PRIME-XV MSC Expansion XSFM. BM-hMSCs were expanded for 3 passages and analyzed for a panel of cell stemness markers by flow cytometry.

DIFFERENTIATION POTENTIAL

Cellnest maintains three lineage differentiation potential of hMSCs into adipocytes, chondrocytes, and osteocytes.



BM-MSCs differentiation potential after being expanded using adipogenic, chondrogenic osteogenic inducing media.

ORDERING INFORMATION

This product is exclusively distributed by FUJIFILM Irvine Scientific under catalog number 1063967. For more information visit the website: www.irvinesci.com.

Item	Catalog #	Size	Additional information:	Available Documentation:
Cellnest Lyophilized	1063967	25 mg	Chemically defined	Product insert
			Animal component free	CoA
				SDS

Data provided courtesy of FUJIFILM Irvine Scientific