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Attachment Substrates

Attachment matrices for optimal growth of primary cells in serum-free conditions

PRIME-XV Attachment Substrates and Cellnest support cell adhesion and spreading for the culture of human stem and primary cells under serum-free condiitons.

CELLNEST
Recombinant Peptide

- 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

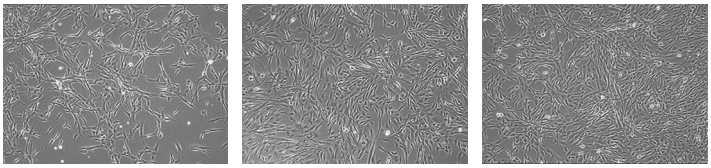

Figure 1. Morphology of human umbilical cord-derived MSCs cultured in PRIME-XV MSC Expansion XSFM on tissue culture plastic with no coating, PRIME-XV Human Fibronectin coating, or Cellnest coating. Morphology was observed after the third passage. Images were taken at 10X magnification. MSC morphology on Cellnest-coated plates is comparable to those attached to fibronectin.

PRIME-XV FIBRONECTIN
Human Plasma-derived Fibronectin, Carrier-Free

- Validated for use in a variety of primary cell attachment and spreading applications
- Carrier-free forumula
- Processed under cGMP conditions

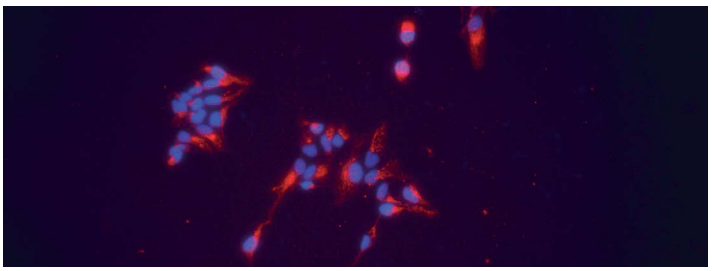

Figure 2. Supports a variety of cell types. Human neural progenitor cells plated on PRIME-XV Human Fibronectin substrate retained NESTIN expression (red). Nuclei were counterstained with DAPI (blue).

PRIME-XV MATRIS F
Recombinant Human Matrix Protein

- Proprietary, recombinant coating substrate to support optimal growth in serum-free conditions
- Defined, recombinant human matrix protein provides lot-to-lot consistency

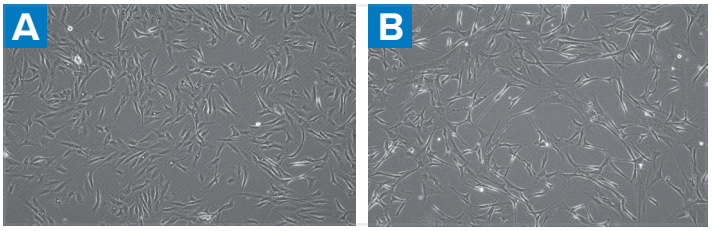

Figure 3. Achieve optimal growth in serum-free conditions. Human BM-MSCs were cultured in PRIME-XV MSC Expansion XSFM in plates coated with PRIME-XV MatrIS F or uncoated plates. The use of MatrIS F gave rise to a higher number of MSCs during *ex vivo* expansion (A) than the uncoated plates (B).

Ordering Information

Item	Catalog #	Size*	Additional Information
Cellnest	1063967	25 mg	Attachment substrate. Recombinant peptide based human collagen I. Lyophilized.
PRIME-XV Human Fibronectin	31002	1 mg	Attachment substrate. Human plasma-derived. Carrier-free.
PRIME-XV MatrIS F	31001	200 µg	Attachment substrate. Recombinant human matrix protein. Lyophilized.

Related Products

Item	Catalog #	Size*	Additional Information
PRIME-XV MSC Expansion XSFM	91149	250 mL 1 L	Xeno-free medium for MSC culture
PRIME-XV MSC Expansion SFM	91135	250 mL 1 L	Serum-free medium for MSC culture
PRIME-XV Stem FreezIS DMSO-Free	91140	10 mL 100 mL	Protein-free, chemically-defined, animal component-free cryopreservation medium. Does not contain DMSO.
PRIME-XV FreezIS	91139	10 mL 100 mL	Chemically-defined, free from animal components and proteins. Contains 10% DMSO.
PRIME-XV Osteogenic Differentiation SFM	91132	100 mL	Serum-free osteogenic differentiation medium
PRIME-XV Chondrogenic Differentiation XSFM	91138	100 mL	Xeno-free, serum-free chondrogenic differentiation medium
PRIME-XV Adipogenic Differentiation SFM	91137	100 mL	Serum-free adipogenic differentiation medium

*Custom sizes and packaging available on request.

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