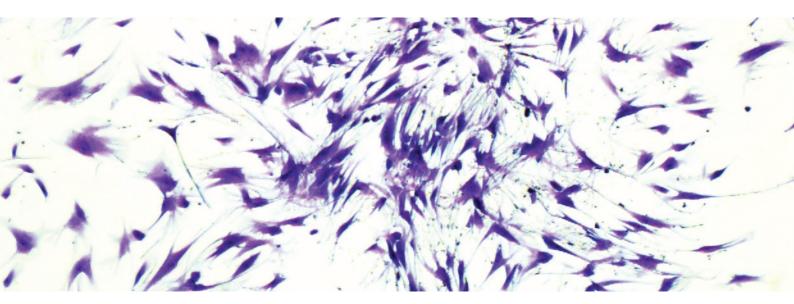


NutriCoat™ Attachment Solution

Cost-effective, efficient, standardized supplement designed for the attachment of human mesenchymal stem cells under serum-free and xeno-free culture condition.



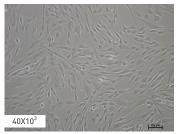
- Defined substrate containing clinicalgrade human Fibrinogen (xeno-free)
- Easy-to-use stock solution for easy handling
- cGMP Manufactured
- Suitable for both hMSC expansion and differentiation
- Supports long-term multi-potency of hMSC
- Validated for multiple sources of human MSC culture
- Allows quick transition from research to clinical applications

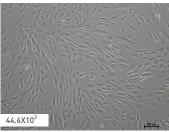
NutriCoat™ is a defined substrate based on clinical-grade human Fibrinogen, designed for the attachment of human mesenchymal stem cells (hMSC) in serumfree (SF) and xeno-free (XF) culture systems. NutriCoat™ Attachment Solution is optimal for adherence of hMSC's from multiple sources (e.g. AT, CT, BM, DP) when cells are cultured with MSC NutriStem® XF Medium (Cat. # 05-200-1).

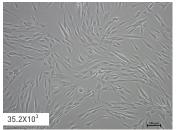
The substrate supports long term culturing of hMSC, as well as their enumeration using the colony forming unit–fibroblast (CFU-F) assay under SF and XF culture conditions. NutriCoat $^{\text{TM}}$ is a ready- to-use solution store at RT and offers a more affordable option when compared to other commonly used products.

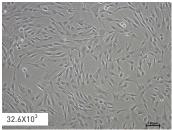
NutriCoatTM is part of BI's NutriTM product line, which reduces the burden of qualifying reagents during transition from research to clinical applications. NutriCoatTM is ideal for cell therapy research applications such as bone/cartilage diseases, bone marrow transplants/GVHD, cardiovascular disease, autoimmune disease, liver disease and cancer.

Suitable to hMSC from various sources









hMSC-AT hMSC-BM

hMSC-CT

hMSC-DP

Figure 1: Optimal growth in serum-free conditions. hMSC were cultured in MSC NutriStem® XF on plates coated with NutriCoat™. hMSC maintained typical fibroblast-like cells morphology.

A. FACS analysis

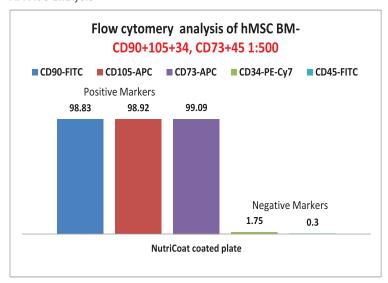


Fig.2. NutriCoat™ Attachement Solution supports long term expansion of hMSC in a serum-free, xeno-free environment. hMSC expanded in MSC NutriStem® XF using NutriCoat™ pre-coated cultureware. Flow cytometry analysis of hMSC-BM after 2P expression -CD90+105+34 1:250; CD73+45 1:500 (A). Representative images of colonies stained with 0.5% crystal violet (x100) (B). Normal karyotype of hMSC-BM P9(9)D16.5 (C).

B. CFU-F assay 18 days hMSC-AT hMSC-BM C. Karyotype analysis

Maintains trilineage differentiation potential

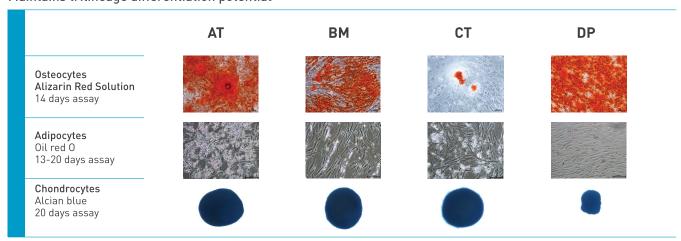


Figure 3: hMSCs from various sources (AT, BM, CT, DP) were cultured in MSC NutriStem® XF Medium on NutiCoat™, and were seeded into MSCgo™ Adipogenic / MSCgo™ Osteogenic / MSCgo™ Chondrogenic Differentiation Media for up to 20 days, revealing Adiopocytes (Oil Red O lipid stains), Chondrocytes (Alcian Blue glycosaminoglycan stain) and Osteoblasts (Alkaline Phosphatase cell surface glycoprotein stain).

Ordering Information

Cat. #	Product	Qty
05-760-1-15	NutriCoat™ Attachment Solution	1.5ml/vial
05-200-1A	MSC NutriStem® XF Medium	500ml
05-201-1U	MSC NutriStem® XF Supplement Mix	3ml
03-043-1A	Saline - Sodium Chloride 0.9% Solution	500ml

How to Order

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