



# MSC Attachment Solution

A xeno-free solution that facilitates the attachment and spreading of hMSCs cultured in MSC NutriStem® XF Medium

Cat. No.: 05-752-1H 5 ml  
05-752-1F 1 ml

Store at: 2-8°C

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## Instructions for Use

### Product Description

MSC Attachment Solution is a clear sterile solution containing human fibronectin (hFN) obtained by affinity purification on gelatine-sepharose from human plasma. This solution is particularly useful for the culture of cells that are not capable of synthesizing their own biomatrix or when culturing cells in serum-free medium. MSC Attachment Solution was qualified and optimized for the attachment and spreading of human mesenchymal stem cells (hMSCs) when cultured in MSC NutriStem® XF Medium (Cat. No. 05-200-1 and 05-201-1).

### Features

- Xeno-free
- Easy-to-use
- Qualified for various sources of hMSCs (such as bone marrow, adipose tissue, umbilical cord tissue).
- Optimized for the attachment of hMSCs to tissue culture dishes when cultured with MSC NutriStem® XF Medium

### Precaution and Disclaimer

1. For in vitro diagnostic use.
2. Do not use if a visible precipitate is observed in the MSC Attachment Solution.
3. Do not use beyond the expiration date indicated on the product label.

## Instruction for use

1. Dilute the MSC Attachment Solution 1:100 using sterile DPBS (without Ca<sup>++</sup> and Mg<sup>++</sup>, Cat. No. 02-023-1) and gently mix using a pipette.
2. Coat the desired culture dish with the 1:100 diluted MSC Attachment Solution.  
The volume should be adequate for covering the desired well or plate.  
Use Table 1 for the recommended volumes.
3. Gently agitate the coated dish. Verify full covering of the surface dish.
4. Incubate for at least 30 minutes in a humidified CO<sub>2</sub> incubator (37°C).  
Alternatively, wrap the coated dishes with Parafilm® and incubate at 2-8°C overnight.
5. Before seeding, gently wash the culture vessel with DPBS.

**Table 1. Recommended volume for the coating procedure**

Culture vessel	Surface area cm <sup>2</sup>	Volume of 1:100 MSC Attachment Solution
96-well plate	0.3	0.1 ml
24-well plate	1.9	0.40 ml
12-well plate	3.9	0.8 ml
6-well plate	9.6	2 ml
T 25 Flask	25	5 ml
T 75 Flask	75	15 ml

## Notes

1. Longer incubation (up to 72 hours) of culture vessel in a humidified CO<sub>2</sub> incubator (37°C) with MSC Attachment Solution will not decrease cell attachment and spreading performance.
2. Coated culture dishes stored under sterile conditions at +2-8°C should be used within 1 week.

## Quality Control

Each lot is tested for sterility as well as for biological performance (the ability to promote the attachment and spreading of cells in serum-free medium).

The human source material of this product have been tested negative for Hepatitis B virus, Hepatitis C virus, (HCV), HIV, HTLV, Parvovirus B-19 by NAT and TPHA.

## Auxiliary products

Product name	Cat. No.
MSC NutriStem® XF Basal Medium and Supplement Mix	05-200-1 and 05-201-1
MSC Dissociation Solution	05-075-1
MSC Freezing Solution	05-712-1
Non enzymatic MSC Dissociation Solution	03-077-1
Dulbecco's PBS (w/o Ca & Mg)	02-023-1



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