

Instructions for Use

# Human Fibronectin Solution

An attachment factor that facilitates the attachment and cytoplasmic spreading of all types of anchorage-dependent cells.


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**SARTORIUS**

An attachment factor that facilitates the attachment and cytoplasmic spreading of all types of anchorage-dependent cells.

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<b>REF</b>	05-750-1H (5 mL)	05-750-1F (1 mL)
	2-8°C	

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# 1 Product Description

Fibronectin is an attachment factor that facilitates the attachment and cytoplasmic spreading of all types of anchorage-dependent cells. Fibronectin 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. Human Fibronectin (hFN) was tested and found suitable matrix for many cell types as well as for stem cells (e.g. mesenchymal stem cells). hFN is obtained by affinity purification on gelatine-sepharose from human plasma.

## 2 Features

- A complete ready-to-use solution
- Suitable for various animal cells
- Performance tested

## 3 Precaution and Disclaimer

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

## 4 Instructions for use

The recommended concentration of the hFN is 1–5  $\mu\text{g}/\text{cm}^2$ .

1. Determine the amount of hFN needed to coat culturewares by multiplying the total surface area ( $\text{cm}^2$ ) by the desired concentration ( $\mu\text{g}/\text{cm}^2$ ) of hFN.
2. Wet the surface of each cultureware to be coated with a minimum amount of sterile Dulbecco's PBS w/o Ca & Mg (Cat. No. 02-023-1) required to cover the entire area.
3. Add the calculated amount of hFN to each cultureware.
4. Allow hFN to adsorb to the surface of the vessel for at least 30 minutes in incubator ( $37^\circ\text{C}$ ).
5. Before seeding, wash the cultureware with Dulbecco's PBS or culture medium.
6. When the medium is replaced in the days following initial seeding no further hFN is required.

**NOTE:** Coated culturewares stored under sterile conditions at  $2-8^\circ\text{C}$  may be used within 1 month.

## 5 Quality Control

- Purity: hFN purity is  $>95\%$ , as determined by SDS-PAGE. A double band of 220 kDa is present under reduced conditions
- Biological performance: the ability to promote the attachment and spreading of BHK-21 cells in serum-free medium
- Sterility

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

## 6 References

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- Miekka SI al. Thromb Res. 1982 Jul 1;27(1):1-14.
- Mosesson MW And Umfleet RA. J Biol Chem. 1970 Nov 10;245(21):5728-36
- Vuento M and Vaheri A. Biochem J. 1979 Nov 1;183(2):331-7.

## 7 Auxiliary Products

Product	Cat. No.
Dulbecco's PBS (w/o Ca & Mg)	02-023-1
Cell Dissociation Solution (Non Enzymatic)	03-072-1
Crystalline Trypsin Solution	03-047-1
Soybean Trypsin Inhibitor (SBTI)	03-048-1

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