

# Human Plasma Fibronectin Solution (HPF)

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Catalog #cAP-42

## Product Description

Fibronectin is a 440-500 kDa glycoprotein found both as cell surface proteins and in plasma. It binds to cell membrane receptors and extracellular matrix components. Angio-Proteomie's Human Plasma Fibronectin is purified from Human plasma with affinity chromatography and supports cell adhesion and spreading. Donors tested negative for HBsAg, HCV, HIV1 and HIV2 antibodies.

## Specifications

Quantity: 1 mg      Concentration: 1 mg/ml      Storage buffer: 0.15 M NaCl, 50 mM Tris, pH 7.5

## Quality control

Fibronectin quality was assured with a 0.15mM NaCl, 50 mM Tris chloride, pH 7.5, fibronectin 1 mg/ml. Sterilized by 0.22 um membrane filtration. Under reducing conditions, fibronectin appeared as a doublet of 230 and 220 kDa. ELISA assay showed that absorbance was directly proportional to the logarithm of fibronectin concentration. Cell adhesion assays indicated that a coating with as low as 0.1  $\mu\text{g}/\text{cm}^2$  of fibronectin significantly promoted endothelial cell adhesion compared with non-coated controls.

## Storage/Handling

It is recommended to store the product as single use aliquots at  $-80^{\circ}\text{C}$ . Thawing should be done slowly at  $37^{\circ}\text{C}$  with no agitation. Material that fails to dissolve can be removed by centrifugation. Avoid repeated freeze/thaw cycles.

## Application

Recommended for use as a cell culture substratum at 1-5  $\mu\text{g}/\text{cm}^2$ . Optimal concentration depends on cell type.

## Coating Instructions

1. Dilute fibronectin in  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ -free phosphate buffered saline. Coat the culture surface at 1-5  $\mu\text{g}/\text{cm}^2$  with a minimal volume.
2. Incubate at  $37^{\circ}\text{C}$  incubator or at room temperature for at least 2 hours. Aspirate remaining fibronectin solution and rinse with DI  $\text{H}_2\text{O}$ . The culture vessels are now ready to use.

## THESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.