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## TECHNICAL INFORMATION

Catalog Number: 151126, 194072, 194931

### Fibronectin

**Description:** Human fibronectin (HFN) is suitable for use as an attachment factor in the propagation of cells *in vitro* when used to coat cell culture surfaces, including plasticware, glassware, and microcarrier beads. HFN is purified from Cohn fraction I of human plasma by a modification of the procedure.<sup>1</sup> This material has been pasteurized to reduce the possibility of viral contamination, and filtered through a 0.22 micron filter prior to lyophilization.

**Source:** *Human plasma*

**Applications:** Cell attachment and proliferation assays on human endothelial cells, human keratinocytes and human dermal fibroblasts

### Suggested Procedure for Coating Cell Cultureware

- Determine the amount of HFN needed to coat culture vessels by multiplying the total surface area (cm<sup>2</sup>) by the desired concentration (mg/ml) of HFN. Recommended amount is 2-10 mg/cm<sup>2</sup>.
- Reconstitute HFN at 1mg/ml and dilute to the desired concentration with physiological buffer. Wet the surface of each culture vessel to be coated with a minimum amount of sterile balanced salt solution (serum and protein free) required to cover the entire area.
- Introduce the proper CO<sub>2</sub> atmosphere, if required.
- Add the calculated amount of HFN to each culture vessel.
- Allow HFN to adsorb to the surface of the vessel for 5-20 minutes.
- Remove residual balanced salt solution before proceeding with standard cell culture procedures.

**Presentation:** Lyophilized from sodium citrate buffered saline, pH 7.3.

**Reconstitution:** Reconstitute in physiological buffer or urea for best results. After reconstitution, store in convenient aliquots at -20°C for up to one year. Avoid repeated freeze/thaw cycles.

**\*\*\*\*Note: The final concentration of the reconstituted protein must be verified by a spectrophotometric reading at 280 nm. Divide the OD<sub>280</sub> by 1.3 to determine the mg/ml of the protein solution.**

### Availability:

Catalog Number	Description	Size
151126	Fibronectin, Tissue Culture Grade, Purity: > 95%, purified from the Cohn Fraction I of human plasma by a modification of the procedure of Engvall and Ruoslahti. White powder	1 mg
194072	Fibronectin, purified protein containing < 1 ug of factor VIII and fibronectin.	500 ug
194931	Fibronectin, white lyophilized powder	2 mg

### References:

- Engvall and Rouslahti, *International Journal of Cancer*, v. **20**, 1-5 (1977).
- Mosesson, M.W., and Umfleet, R.A., *J. Biol. Chem.*, v. **245**, 5728 (1970).
- Mosesson, M.W., *Blood*, v. **56**, 145-58 (1980).