

Factor XIIIa (Human)

0.25 mg

Ref#: HF13A

Lot#: xxxxxx

Exp. Date: xxxx-xx



For Research Use Only
Not for Use in Diagnostic Procedures
For *in vitro* use only

Description:	Factor XIIIa (Human)
Format:	Frozen in 0.05 mM EDTA / 50% Glycerol / pH 7.4
Host:	Human
Storage:	Store between -20 and -30°C
Volume:	1 vial containing 0.195 mL
Total Protein:	0.25 mg
Concentration:	1.28 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 14.1$
Activity:	3125.00 Loewy Units/mg (about 28.9 Plasma Equivalent Units (PEU)/mg)
Molecular weight:	312,000 daltons

Human Factor XIII is a tetramer composed of two pairs of chains held together by noncovalent bonds. After activation of the zymogen via Thrombin to its active enzyme form, Factor XIIIa is responsible for catalyzing the formation of covalent bridges between fibrin units to increase the elasticity of the clot network. The resulting cross-linked fibrin is very insoluble and resistant to lysis.

Factor XIII is cleaved with purified human alpha Thrombin that is immobilized to a resin.

If diluting use physiologic Tris buffered saline containing 0.5 mM EDTA

The above protein was purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV 1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeld-Jakob Disease).