

# Factor XIII (Human)

## 0.25 mg

Ref#: HF13  
Lot#: xxxxxx  
Exp. Date: xxxx-xx



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

<b>Description:</b>	Factor XIII (Human)
<b>Format:</b>	Buffered with 50 mM Tris / 100 mM NaCl / 1 mM EDTA / 10 u/mL Aprotinin / 20% Glycerol / pH 7.5
<b>Host:</b>	Human
<b>Storage:</b>	Store at $\leq -60^{\circ}\text{C}$
<b>Reconstitution:</b>	Frozen. Thaw in a $37^{\circ}\text{C}$ waterbath for 3 minutes
<b>Volume:</b>	1 vial containing 0.041 mL
<b>Total Protein:</b>	0.25 mg
<b>Concentration:</b>	6.11 mg/mL by Absorbance; Extinction Coefficient $E_{280}^{1\%} = 13.8$
<b>Activity:</b>	2619.00 Loewy u/mg (24.25 PEU/mg)
<b>Molecular weight:</b>	320000 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

The Human Factor XIII is >94% as judged by SDS-PAGE. One plasma equivalent unit (PEU) is equal to about 108 Loewy units.

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).