

# Fibrinogen (plasminogen depleted), Human Plasma

<b>CATALOG #:</b>	7692-1	1 g
<b>ALTERNATE NAMES:</b>	Factor 1	
<b>SOURCE:</b>	Human Plasma. The Human Fibrinogen is homogeneous as judged on a 4-20% gradient gel and is greater than 95% clottable. The plasminogen was depleted using affinity chromatography. Purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV1/2, 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 (Creutzfeldt-Jakob Disease).	
<b>MOL. WEIGHT:</b>	330.00 kDa	
<b>PURITY:</b>	≥ 95% by SDS-PAGE.	
<b>EXTINCTION COEFFICIENT (1%):</b>	15.1	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In 20 mM Sodium Citrate-HCl pH 7.4.	
<b>ACTIVITY:</b>	> 95% clottable by functional assays.	
<b>STORAGE CONDITIONS:</b>	Store at -60°C or lower. Avoid repeated freezing and thawing cycles. <b>Note:</b> Fibrinogen must be thawed in a 37°C water bath. Once thawed, do not chill. Remaining protein may be aliquoted into single use aliquot and stored at -60°C or lower.	

**DESCRIPTION:** Fibrinogen is an acute phase protein that is part of the coagulation cascade of proteins. The end result of the cascade is the production of thrombin that converts fibrinogen to fibrin. Thrombin rapidly proteolysis fibrinogen, releasing fibrinopeptide A. The loss of this small peptide is not sufficient to make the resulting fibrin molecule insoluble, but it

tends to form complexes with adjacent fibrin and fibrinogen molecules. Thrombin then cleaves a second peptide, fibrinopeptide B, from fibrin and the fibrin monomers formed then polymerize spontaneously to form an insoluble gel. The polymerized fibrin is held together by noncovalent and electrostatic forces and stabilized by the transamidating enzyme, factor XIIIa that is produced by the action of thrombin on factor XIII. The insoluble fibrin aggregates (clots) and aggregated platelets then block the damaged blood vessel and prevent further bleeding. The amount of fibrinogen in the plasma can serve as a nonspecific indicator of whether or not an inflammatory process is present in the body. Fibrinogen from any mammalian source will be cleaved by thrombin from any mammalian source.

**RELATED PRODUCTS:**

- Fibrinogen (Pg & vWF depleted), Human Plasma (**Cat. No. 7693-500**)
- Fibrinogen (Pg, Fn & vWF depleted), Human Plasma (**Cat. No. 7694-250**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**