FACTOR V DEFICIENT PLASMA

(Haematologic Technologies, Inc. Catalog #FV-ID)

Intended Use

Haematologic Technologies' factor deficient plasmas are for research use or for further manufacture into *in vitro* diagnostic reagents.

Summary of Factor V

Factor V is a large, single chain, plasma glycoprotein, which is an essential component in the blood coagulation cascade (1). During coagulation, the procofactor, factor V, is converted to the active cofactor, factor Va, via limited proteolysis by the serine protease α-thrombin, and less efficiently by factor Xa. The active cofactor is composed of an NH_2-terminal derived heavy chain (Mr=94,000) and a COOH-terminal derived light chain (Mr=74,000), which remain non-covalently associated in the presence of calcium ions.

Reagent

Haematologic Technologies' factor V deficient plasma is prepared from citrated "coagulation normal" human plasma that has been immunodepleted of factor V so that the activity of factor V remaining is <1%. Other coagulation factor values along with PT, aPTT, and turbidity measurements are determined and reported on each lot's Certificate of Analysis.

Assay Ranges			
Fibrinogen	150-575 mg/dL	Factor X	>50%
Factor II	>50%	Factor XI	>50%
Factor V	<1%	Factor XII	>50%
Factor VII	>50%	Turbidity (reported)	A320, A400, A530, A650
Factor VIII	>50%	aPTT	reported
Factor IX	>50%	PT	reported

Storage and Handling

Haematologic Technologies' deficient plasmas have a five (5)-year expiration when stored continuously at –70°C.

This product is of human blood/plasma origin. Although the starting material has been tested and found negative for HIV-1 antigen(s), antibodies to HIV and HCV, and non-reactive for HbsAg, extreme caution should be used when handling this material.

Related Reagents from Haematologic Technologies

- Human Factor V (Cat. #HCV-0100)
- Human Factor Va (Cat. #HCVA-0110)
- Bovine Factor V (Cat. #BCV-1100)
- Bovine Factor Va (Cat. #BCVA-1110)
- Sheep anti-Human Factor V (Cat. #PAHFV-S)
- Sheep anti-Bovine Factor V (Cat. #PABFV-S)
- Horse anti-Human Factor V (Cat. #PAHFV-H)
- Various monoclonals (11 total)

1. Mann, K.G., et al., Ann. Rev. Biochem., 57, 915 (1988).

Haematologic Technologies, Inc., 57 River Road, Unit 1021, Essex Junction, VT 05452 USA

Tel: (802) 878-1777 Fax: (802) 878-1776 Email: hti@haemtech.com Web: www.haemtech.com