Revision -



Intended Use

Diagen Fibrinogen Standard Plasma may be used as a Reference in the quantitative determination of fibrinogen in citrated human plasma. The value has been defined against the SSC/ISTH Secondary coagulation standard Lot #3 using the Clauss method ⁽¹⁾.

Summary and Principle

Fibrinogen is an essential plasma protein that is synthesised in the hepatocyte. It comprises of three different polypeptide chains (A α , B β and γ) linked by disulphide bridges, of which there are two. Thrombin cleaves the A α and B β chains releasing fibrinopeptides A and B, respectively, from the amino-terminal ends. Once the fibrinopeptides are released, the resulting fibrin monomers undergo polymerization and form an insoluble fibrin clot (²⁾. The clotting time of a dilution of plasma with a standard concentration of thrombin is inversely related to the fibrinogen concentration.

Reagent

Standard Fibrinogen Plasma

10 vials

Lyophilised, buffered plasma, collected from a pool of donors to give a reference plasma with fibrinogen levels in the normal range. For reconstitution remove cap and stopper, add 0.5 mL of distilled water, replace stopper and swirl gently. Please allow 5 to 10 minutes for complete solution.

Warnings and Precautions

POTENTIAL BIOHAZARD MATERIAL.

Diagen Fibrinogen Standard Plasma is of human origin. All donor units used in production of this product have been found negative for anti HIV, anti HCV, HBsAg and Syphilis by approved methods. However, all plasma of human origin should be considered as potentially infectious and handled appropriately. Please refer to the relevant SDS Sheet for handling and safety procedures. Dispose of all waste materials according to the stated international, national, and local regulations.

Collection of Blood Samples

Blood (9 parts) is collected into 1 part of 3.2% trisodium citrate and the plasma obtained by centrifugation at 2500 g for 15 minutes. The plasma should be stored in stoppered tubes. The use of 3.2% citrate containing 5% HEPES buffer improves the stability of both fresh and deep-frozen plasma.

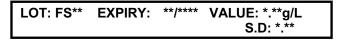
Procedure

For the relevant procedure and method, please refer to the pack insert provided with the test reagent or kit. Diagnostic Reagents Ltd manufactures a Fibrinogen Determination Kit that uses the Clauss method of determination (FIBC440), for more information please contact <u>sales@diagen.co.uk</u>.

Expected Values

The normal range for Fibrinogen using the Clauss technique is: 1.7 – 4.0 g/L

Using the Clauss method of determination, the value obtained is detailed below.



Storage and stability

The unopened freeze-dried vials are **best stored deep frozen** but may be stored for up to 3 years at $2 - 8^{\circ}$ C without deterioration. Once reconstituted, the contents of the vial are stable for up to 8 hours when held at $2 - 8^{\circ}$ C.

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Packaging

10 x 0.5 mL vials

References

1. Clauss A. Gerinnungsphysiologische Schnellmethode zur Bestimmung des Fibrinogens, Acta Haemat. 1957;17: 237.1.

2. Hantgan, R.R., Francis, C.W. & Marder, V.J. (1994) Fibrinogen structure and physiology. In: Hemostasis and Thrombosis: Basic Principles & Clinical Practice (ed. by R.W. Colman, J. Hirsh, V.J. Marder & E.W. Salzman), pp. 277–300. JB Lippincott, Philadelphia.



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