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RANDOX

## Routine Coagulation Reagents

Activated Partial Thromboplastin Time (aPTT)

Antithrombin III (ATIII)

Prothrombin Time (PT)

Thrombin Time (TT)

Fibrinogen

# Coagulation

# Routine Coagulation Reagents

## Superior performance

Our range of coagulation products provides uniform and consistent results that your laboratory can depend on every time. Randox coagulation tests do not show any interference with heparin up to a level of 1.0 U/mL.

## Enhanced stability

Across our range of coagulation products Randox offer superior stability when compared to competitor products. Using Randox reagents allows laboratory technicians to minimise reagent waste and reduce costs.

## Flexibility

All coagulation assays are optimised for manual and semi-automated systems working on electro-mechanical or photo-optical principles.



## Applications

- Liver disease
- Septic shock
- Disseminated intravascular coagulation (DIC)
- Metastatic carcinoma
- Nephrotic syndrome
- Myocardial infarction
- Heparin/warfarin anticoagulant therapy
- Deep Vein Thrombosis
- Pulmonary embolism
- Vitamin K deficiency
- Deficiency in various blood clotting factors
- Heparin contamination
- Dysfibrinogenemia
- Hypofibrinogenaemia
- Thrombolytic therapy
- Malignancy
- Increased Fibrinogen Degradation Products (FDP)

## Fibrinogen

Fibrinogen is synthesised in the liver and is the most abundant clotting factor in human plasma. The Randox fibrinogen assay is based on the Clauss Method for the rapid and quantitative determination of clottable fibrinogen.

### Performance Data

- Assay Range 45.1 - 741 mg/dl
- Working reagent stable for 21 days at +2-8°C or 30 days at -20°C
- 60 tests per kit
- Limited interference from Heparin, Haemoglobin, Total & Direct Bilirubin, Triglycerides and Intralipid
- Highly precise; Intra assay precision <3.5% CV, Inter assay precision <5% CV
- Excellent correlation to competitor methods – a correlation coefficient of  $r = 0.99$  was obtained using a competitor method
- Optimised for manual and semi automated systems, working on electro-mechanical or photo-optical principle

## Activated Partial Thromboplastin Time (aPTT)

Activated Partial Thromboplastin Time (aPTT) is a measure of all the coagulation reactions that occur inside the body (intrinsic) except for platelet aggregation. The Randox aPTT assay is a clot based test for the determination of Activated Partial Thromboplastin Time in human plasma.

**Catalogue Number** – APT2749

### Performance Data

- Liquid ready-to-use reagents stable to expiry date when stored at +2-8°C
- 160 tests per kit
- Highly precise; Intra assay precision <4.5%CV, Inter assay precision <4%CV
- Excellent correlation to competitor methods – a correlation coefficient of  $r = 0.95$  was obtained using a competitor method
- Optimised for manual and semi automated systems, working on electro-mechanical or photo-optical principle

## Antithrombin III (ATIII)

The Randox Antithrombin III test represents a quantitative assay for the determination of ATIII in human plasma by Chromogenic method.

**Catalogue Number** – ANT2754

### Performance Data

- Minimum detectable activity of Antithrombin III was determined as 30%
- Linear up to 130% Antithrombin III activity
- Working reagent stable for 14 days at +2-8°C
- 80 tests per kit
- Limited interference from Total & Direct Bilirubin, Intralipid, Triglycerides or Haemoglobin
- Highly precise; Intra and Inter assay precision <4% CV
- Excellent correlation to competitor methods – a correlation coefficient of  $r = 1.00$  was obtained using a competitor method
- Optimised for manual and semi automated systems, working on electro-mechanical or photo-optical principle

## Prothrombin Time (PT)

Prothrombin is a protein substance that must be converted to thrombin in order for clotting to occur; the time this process takes to form a clot is referred to as the prothrombin time. The Randox Prothrombin Time (PT) is a clot based test intended for use in performing the one step PT test.

**Catalogue Number** – PTH2752

### Performance Data

- Liquid-ready-to use reagents stable to expiry date when stored at +2-8°C
- 150 tests per kit
- Highly precise; Intra and Inter assay precision <2.5% CV
- Excellent correlation to competitor methods – a correlation coefficient of  $r = 0.98$  was obtained using a competitor method
- Optimised for manual and semi automated systems, working on electro-mechanical or photo-optical principle

## Thrombin Time (TT)

Thrombin Time (TT) is a measure of the rate of conversion of fibrinogen into fibrin and is used to estimate haemostatically active fibrinogen. The Randox Thrombin Time assay represents a clot based test for the *In vitro* determination of TT.

**Catalogue Number** – TH2755

### Performance Data

- Working reagent stable for 21 days at +2-8°C or 45 days at -20°C
- 100 tests per kit
- Limited interference from Haemoglobin, Total & Direct Bilirubin, Triglycerides or Intralipid
- Highly precise; Intra assay precision CVs <2.2%
- Excellent correlation to competitor methods – a correlation coefficient of  $r = 0.99$  was obtained using a competitor method
- Optimised for manual and semi automated systems, working on electro-mechanical or photo-optical principle



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