



MRX Thrombin time (TT) is a common clotting test used to detect fibrinogen abnormalities, and the presence of heparin and other thrombin inhibitors in human citrated plasma. In order to fulfil these features, MediRox TT reagent comes with two reconstitution volumes, 2 mL for heparin detection and 5 mL for the detection of fibrinogen malfunction.

- » High precision: CV  $\leq$ 2,1 % within and between runs
- » One vial reagent with multiple reconstitution volumes (2 or 5 mL of distilled water)
- » Suitable for optical and mechanical instruments





The TT assay is performed to study a patient's fibrin polymerization, for the evaluation of disseminated intravascular coagulation, and for hereditary fibrinogen abnormalities. A prolonged thrombin time is usually seen in patient plasma with low fibrinogen concentration, and in patient plasma with defect in fibrinogen cleavage. TT might be used for the evaluation of plasmas with prolonged APTT. MRX TT is affected by fibrinogen inhibitors such as heparin, hirudin etc.

### PERFORMANCE CHARACTERISTICS

Plasma fibrinogen is cleaved by thrombin to form fibrin, which polymerizes to form a fibrin clot. Fibrinogen present in the sample is converted to fibrin by the addition of purified bovine thrombin and the time (measured in seconds) to form a clot is reported as the thrombin time. MRX941 utilize equal parts of reagent and sample when screening for the presence of heparin as well as fibrinogen malfunction. An abnormal clotting time interval could indicate fibrinogen deficiency, hypofibrinogenemia, heparin therapy or dabigatran therapy.

### DETAILS & TYPICAL DATA

Product form: Lyophilised  
 Heparin sensitivity: 0,03-0,25 UI/mL when reconstituted in 2 mL  
 Normal range: 7,8 sec when reconstituted in 2 mL  
 17,1 sec when reconstituted in 5 mL  
 Interfering substances: Thrombin Time results may be affected (results in prolonged clotting time) by many commonly administered drugs. For example heparin, and direct thrombin inhibitors (DTI) such as hirudin and dabigatran, and other factor II inhibitor drugs. Thrombin Time is also affected by haemolysis and high bilirubin concentration.

### STABILITY & STORAGE

Storage: 2-8 °C  
 Shelf life: 24 months at 2-8 °C  
 Reconstituted solution: 8 days at 2-8 °C  
 3 days at 15-25 °C

### ORDERING INFORMATION

Reference Number	Product Description	Pack Size
MRX941-5	MRX Thrombin Time	10x5 mL
MRX171	Eximius Control Basic Level 1	10x1 mL
MRX181	Eximius Control PLUS Level 1	10x1 mL
GHI154	Diluent (purified water, reconstituting)	10x5 mL