



MediRox APTT liquid reagent is used for in vitro determination of the Activated Partial Thromboplastin Time (APTT). APTT is measured to obtain a global evaluation of the intrinsic pathway and for monitoring heparin anticoagulant therapy. The MediRox APTT reagent has been designed to provide an extra long reaction time in order to obtain a high resolution for clearest interpretation of results.

- » Liquid components, ready to use
- » Colloidal silicate contact activator
- » Insensitive to Lupus Anticoagulant
- » Sensitive to Heparin
- » Excellent factor sensitivity





Activated partial thromboplastin time (APTT) is a commonly used screening test for haemostatic defects in the intrinsic and common pathway of the coagulation cascade, as well as the contact activation system. Thus, FV, FVIII, FIX, FX, FXI, FXII, prekallikrein and high molecular weight kininogen deficiencies can result in a prolonged APTT. Moreover, APTT is also suitable to monitor heparin treatment and, depending on the design of the reagent, for detection of lupus anticoagulant (LA). Since there is no international standard for APTT to correlate against, each APTT on the market has its own composition of phospholipids and activator, giving reagents different characteristics. MediRox APTT MRX930 and 931 can be characterized as heparin, FVIII, FIX, FXI sensitive, while still being insensitive to presence of LA, since LA can cause a falsely pro-longed APTT. Thus it is suitable to monitor heparin treatment and for haemophilia screening, while less suitable to detect LA.

PERFORMANCE CHARACTERISTICS

MRX APTT reagent utilizes a contact activator to stimulate generation of FXIa by providing a surface for the interaction of high molecular weight kininogen, kallikrein and FXIIa. The contact activation is allowed to proceed at 37 °C for a period of time before calcium chloride is added to trigger further reactions and finally a formation of fibrin clot. The MRX APTT reagent contains phospholipids and silicate to ensure a highly consistent and stable product. The product is designed to be insensitive to LA and to have high sensitivity to heparin.

DETAILS & TYPICAL DATA

Parameters		Heparin Sensitivity	
Product form:	Liquid components	0 IU/mL	30 sec
Normal range:	<35 sec	0,2 IU/mL	70 sec
Abnormal range:	>35 sec	0,4 IU/mL	174 sec

Factor Sensitivity

Factor %	F VIII	F IX	F XI
<1%	86 sec	71 sec	92 sec
10%	46 sec	44 sec	51 sec
40%	34 sec	34 sec	34 sec
100%	29 sec	29 sec	29 sec

STABILITY & STORAGE

Storage:	2-8 °C
Shelf life:	24 months from date of manufacture in 2-8 °C
Opened vial stability:	30 days at 2-8 °C

ORDERING INFORMATION

Reference Number	Product Description	Pack Size
MRX930	Small APTT Kit	5x5 mL APTT reagent 5x5 mL CaCl ₂
MRX931	Large APTT Kit	5x10 mL APTT reagent 5x10 mL CaCl ₂
MRX171/172/173	Eximius Control Basic L1/L2/L3	10x1 mL pack per level
MRX181/182/183	Eximius Control PLUS L1/L2/L3	10x1 mL pack per level