

# MRX PT QUICK



PT Quick is internationally the most common method to measure Prothrombin Time (PT) and is normally the assay of choice to monitor oral anticoagulant therapy. Moreover, PT Quick is used as a fundamental screening test for acquired or inherited bleeding disorders. During oral anti-coagulant therapy, the activity of vitamin K-dependant clotting factors (FII, FVII, FIX, FX, protein C and protein S) is reduced and PT time is increased thereby enabling the quantitative determination of prothrombin activity.

MRX PT Quick reagent contains a source of rabbit tissue thromboplastin and calcium that specifically activate FVII in the extrinsic coagulation pathway. MRX PT Quick reagent is easy to reconstitute, calcium is already added to the reagent before lyophilisation. Calibration was performed against the most recent WHO thromboplastin standard, RBT/05, which is traceable to the first reference preparation of thromboplastins. The calibration assures low lot-to-lot variation and consequently results in reliable PT determination.

PT Quick results are expressed in either seconds, percent activity or international normalised ratio (INR). The international recommendations of reporting the PT time is INR and refers to the international sensitivity index (ISI) of thromboplastins.

INR is calculated from the quotient between the coagulation time for sample and the coagulation time for a normal plasma (MNPT) raised to the method's ISI-value.

$$\text{INR} = \left( \frac{\text{PT}}{\text{MNPT}} \right)^{\text{ISI}}$$

- » High sensitivity, ISI ~1
- » Calibrated against WHO international reference preparation RBT/05
- » Excellent stability

## DETAILS & TYPICAL DATA

Product form:	Lyophilised
Origin:	Rabbit brain thromboplastin
Additional products needed:	<ul style="list-style-type: none"> <li>• Diluent (GHI154) or CLSI CLRW type water or equivalent</li> <li>• Eximius Control Basic or Plus (L1/L2/L3) (MRX170-MRX173, MRX180-MRX183)</li> <li>• Multi Calibrator II (MRX1203) or PT 6-Level Calibrator (MRX1205)</li> </ul>
Expected ISI value:	0,9-1,2
No interference with:	UFH <2 U/mL, Triglycerides <5 g/L, Bilirubin <500 mg/L, Hemoglobin <5 g/L

## STABILITY & STORAGE

Storage:	2-8 °C
Shelf-life:	18 months at 2-8 °C
Reconstituted solution:	5 days at 2-25 °C

## ORDERING INFORMATION

Reference number	Product description	Size
MRX943-2	MRX PT Quick	10x2 mL
MRX943-4	MRX PT Quick	10x4 mL
MRX943-5	MRX PT Quick	10x5 mL
MRX943-10	MRX PT Quick	10x10 mL
GHI154-2	Diluent (CLSI CLRW type water)	10x2 mL
GHI154-4	Diluent (CLSI CLRW type water)	10x4 mL
GHI154-5	Diluent (CLSI CLRW type water)	10x5 mL
GHI154-10	Diluent (CLSI CLRW type water)	10x10 mL
MRX1203	Multi Calibrator II (AT, fibrinogen, PT Quick)	1x1 mL
MRX1203-10	Multi Calibrator II (AT, fibrinogen, PT Quick)	10x1 mL
MRX1205	PT 6-level Calibrator (INR 1-6)	6x1 mL
MRX170	Eximius Control Basic (L1+L2+L3)	4+4+2x1 mL
MRX171/172/173	Eximius Control Basic (L1/L2/L3)	10x1 mL pack per level
MRX180	Eximius Control Plus (L1+L2+L3)	4+4+2x1 mL
MRX181/182/183	Eximius Control Plus (L1/L2/L3)	10x1 mL pack per level