

# FACTOR ASSAYS

## CHROMOGENIC ASSAYS

### FACTOR IX

COLORIMETRIC ASSAYS

## Rox Factor IX

Colorimetric assay



### Associated products

CRYOcheck™ Abnormal 1 Reference Control  
CRYOcheck™ Abnormal 2 Reference Control  
CRYOcheck™ Normal Reference Plasma  
CRYOcheck™ Reference Control Normal  
Very Low IX Control Plasma

### Auxiliary reagents

Tris BSA

### Informations

FIX is a vitamin K dependent glycoprotein synthesized by the liver.  
The FIX can be activated in FIX in FIXa by the FIXa or by FVIIIa in the presence of phospholipids and calcium.  
A person who is deficient in FIX has hemophilia B.

Reference	Presentation	Number of tests
5-900020	Kit	2 x 50

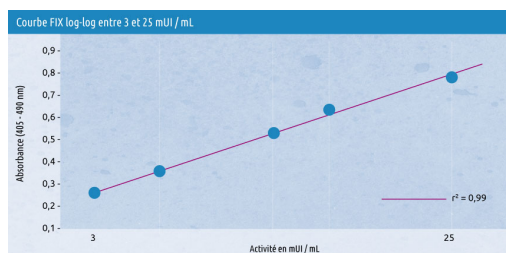
### Human Factor IX enzymatic assay kit.

The Rox Factor IX kit contains reagents for the colorimetric determination of Factor IX activity in plasma and in plasma derivatives.

Dilution buffer : additional bottles can be ordered under reference 5-9050, specifying the batch number of the box within the limit of available stocks.

### Components

- 2 vials x reagent A (human FVIII and FX, and bovine FV, lyophilized fibrin polymerization inhibitor)
- 2 vials x reagent B (lyophilized human FIXa and FII, CaCl<sub>2</sub> and phospholipids)
- 1 vial x FXa Chromogenic Substrate (6 mL)
- 1 vial x Tris BSA Dilution Buffer (20 mL)



### Method / Application

The ROX FACTOR IX is a chromogenic enzymatic assay kit for the determination of FIX in human FIX concentrates. FIX insufficiency as well as FIX replacement therapy can be monitored. (Specialized hemostasis)

This method is based on the activation of human FIX by human FIXa.  
The FIXa thus formed activates FX to FXa in the presence of FVIII, phospholipids and calcium ions. The amount of FXa generated is determined by hydrolysis of a chromogenic substrate for FXa. The quantity of para-nitroaniline released during this hydrolysis and measured at 405 nm is proportional to the concentration of FIXa in the reaction medium.

### Characteristics

- Linearity : 0.005-2 IU / mL
- Two possible curves : linearity between 3 and 25 mIU/mL and between 50 and 500 mIU/mL
- Excellent sensitivity around 0.001 IU / mL with a signal > 30 mAU at 405 nm
- No FIX-deficient plasma is used
- CE validated adaptation on STAR, CS5100, BCS XP and ACL Top

