

## Factor IXa Activity Assay Kit (Fluorometric)

**Cat. No.** Kit-1053    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

**Description**

The coagulation Factor IX (or Chris;as factor) (EC 3.4.21.22) is a vitamin K-dependent serine protease. Factor IX is produced as an inactive precursor and is activated via cleavage by either factor XIa (contact pathway) or factor VIIa (tissue factor pathway). In the presence of calcium ions and negatively charged membrane phospholipids, activated factor IX (FIXa) then binds to the activated Factor VIII (FVIIIa) and proteolytically activates factor X (FX) to factor Xa (FXa). Factor IXa Activity Assay kit is based on the ability of FIXa to generate FXa. The generated FXa proteolytically cleaves a synthetic substrate and releases a fluorophore, AMC, which can be easily quantified by fluorescence microplate reader. The assay is simple, rapid and can detect activity as low as 10 pg of FIXa in a variety of samples.

**Applications**

Determine activity of purified Factor IXa  
Detect the activity of Factor IXa in plasma and serum samples

**Storage**                      -20°C

**Shipping**                     Gel Pack

**Size**                             100 assays

**Kit Components**

FIXa Assay Buffer; FXa Substrate-AMC; Enzyme Mix I; Enzyme Mix II; Phospholipids; FIXa Enzyme Standard (10 ng)

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|                         |                                   |
|-------------------------|-----------------------------------|
| <b>Detection method</b> | Fluorescence (Ex/Em = 360/450 nm) |
|-------------------------|-----------------------------------|

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|--------------------------------|---------------------------------------------------------------------------------|
| <b>Features &amp; Benefits</b> | Rapid and convenient; The assay can detect Factor IXa activity as low as 10 pg. |
|--------------------------------|---------------------------------------------------------------------------------|

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