

## Factor Xla Activity Assay Kit (Colorimetric)

**Cat. No.** Kit-1050    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

#### Description

Factor XI or plasma thromboplastin antecedent (EC 3.4.21.27), the zymogen form of factor Xla, is a serine protease. In humans, Factor XI is encoded by the F11 gene. Factor XI (FXI) circulates as a homo-dimer in its inactive form activated into factor Xla by factor XIIa (FXIIa) via the "contact pathway", thrombin, and self-activation by its active form (FXla). The deficiency of factor XI causes the rare hemophilia C which is an autosomal recessive disorder characterized by lower spontaneous bleeding, but excessive blood loss during surgical procedures. Low levels of factor XI also occur in many other disease states, including Noonan syndrome. High levels of factor XI have been implicated in thrombosis. Factor Xla also activates factor IX which, in turn, activates factor X in the coagulation cascade. Factor Xla activity assay kit utilizes the ability of factor Xla to cleave a synthetic substrate to release p-Nitroaniline (pNA) which can be quantitatively measured by a colorimetric assay (OD 405 nm). The kit is easy-to-use and can detect Factor Xla (as low as 1 mPEU) from plasma and purified protein samples.

#### Applications

Measurement of Factor XIIIa activity in plasma samples and purified/crude enzyme preparations

#### Storage

-20°C

#### Shipping

Gel Pack

#### Size

100 assays

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|                                |                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Kit Components</b>          | FXIa Assay Buffer; FXIa Activator; Inhibitor 1; Inhibitor 2; FXIa Substrate; Human Factor XIa; pNA Standard (0.1 M)            |
| <b>Target Species</b>          | Mammalians                                                                                                                     |
| <b>Detection method</b>        | Colorimetric (Absorbance 405 nm)                                                                                               |
| <b>Features &amp; Benefits</b> | Simple, rapid & convenient assay to measure Factor XIa;<br>Includes Positive Control and Factor Xia and Factor XIIa Inhibitors |

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