

## Factor XIIa Activity Assay Kit (Colorimetric)

### Product Information

#### **Cat**

Kit-1054

#### **Common Name**

Factor

#### **Cat.No.**

Kit-1054

#### **Description**

Factor XII or Hageman factor (EC 3.4.21.38), is the zymogen form of factor XIIa, a serine protease involved in Coagulation Pathway. This single chain zymogen is activated by Kallikrein into a two-chain serine protease (XIIa) with a heavy chain (factor XIIa-alpha) and a light chain. Human Factor XII and Prekallikrein are thought to be involved in a reciprocal activation mechanism in which Factor XIIa activates Prekallikrein to Kallikrein, which in turn converts Factor XII to XIIa. Factor XIIa activates Factor XI to XIa thereby triggering the Contact Factor cascade. The defects in this gene do not cause any clinical symptoms but prolong the whole blood clotting time. Factor XIIa activity assay kit utilizes the ability of factor XIIa to cleave a synthetic substrate to release p-Nitroaniline (pNA) which can be quantitatively measured by a colorimetric assay (OD405 nm). The kit is easy-to-use and can detect Factor XIIa (as low as 1 mPEU) from plasma samples.

#### **Applications**

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

#### **Storage**

-20°C

#### **Shipping**

Gel Pack

#### **Size**

100 assays

## Factor XIIa Activity Assay Kit (Colorimetric)

### Kit Components

FXIIa Assay Buffer; FXIIa Activator; FXIIa Substrate; Human Factor XIIa; Human Factor XIIa Supplement; FXIIa Inhibitor; pNA Standard (0.1 M)

### Target Species

Mammilians

**Detection method** Colorimetric (Absorbance 405 nm)

### Features & Benefits

Simple, rapid & convenient assay to measure Factor XIIa;  
Includes Positive Control and Factor XIIa and Factor XIIa Inhibitors