

Factor XIIa Activity Assay Kit (Colorimetric)

Cat. No. Kit-1054 **Lot. No.** (See product label)

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Target Species	Mammalians
Detection method	Colorimetric (Absorbance 405 nm)
Features & Benefits	Simple, rapid & convenient assay to measure Factor XIa; Includes Positive Control and Factor XIIa and Factor XIIa Inhibitors

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