PENTAPHARM

Pefachrome[®]FXIIa

Application: Highly sensitive chromogenic peptide substrate for factor XIIa. Determination of factor XIIa

activity for research, in-process and quality control.

Formula: H-D-HHT-Gly-Arg-pNA·2AcOH MW: 640.7

Principle: H-D-HHT-Gly-Arg-pNA + FXIIa ==> H-D-HHT-Gly-Arg-OH + pNA + FXIIa

 \mathbf{K}_{M} : 0.8 mM \mathbf{v}_{max} : 3.14 μ mol/min

Solubility: Up to 4 mM in H_2O

Storage: May be used by the expiry date given on the label when stored unopened, protected from

moisture, in the dark, 2-8°C. Avoid contamination of the reagents by micro-organisms.

Shipment of product does not require cooling during the time of transportation.

Material required but not provided:

Buffer, NaCl, reference material, dist. H₂O, Pefabloc[®] PK, Kalliplastin[®]

Buffer: 50 mM Tris-imidazole buffer pH 7.9, 150 mM NaCl

Assay 1: Suggested protocol for the determination of factor XIIa activity:

0.700 ml buffer

0.100 ml factor XIIa (0.2 units/ml) 0.200 ml Pefachrome®FXIIa 4 mM

==> Determination of ΔOD/min at 405 nm

Assay 2: Suggested protocol for the determination of factor XIIa activity (FXII activated by Kalliplastin®) using Pefachrome®FXIIa and a selective synthetic inhibitor of plasma kallikrein (Pefabloc® PK):

0.100 ml citrated plasma (diluted 1:5 with NaCl)

0.200 ml Kalliplastin® (20 μg/ml, Pentapharm Ltd.)

⇒ incubate for 1 min at 37 °C

0.500 ml buffer

0.100 ml Pefabloc[®] PK 0.2 mM 0.100 ml Pefachrome[®]FXIIa 2 mM

==> Determination of AOD/min at 405 nm

Reference: Stürzebecher J, Svendsen L, Eichenberger R, Markwardt F.

A new assay for the determination of factor XII in plasma using a chromogenic substrate and a

selective inhibitor of plasma kallikrein.

Thromb Res 1989; 55: 709-15.

Package size: Vial containing 10 μmol

Bulk [g] 092-02

FOR RESEARCH USE ONLY, NOT FOR HUMAN USE OR DRUG USE.

[Data sheet / 5802] [Pefachrome FXIIa.doc]

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