PENTAPHARM

Hinweis/Note:
Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.
The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

Pefachrome® 6017 (article number 081-45)
Pefachrome® FXII/TH 5253 (article number 081-11)

Application: Highly sensitive chromogenic peptide substrate for factor XIIa. Determination of factor XIIa activity for research, in-process and quality control.

Formula: H-D-CHA-Gly-Arg-pNA·2AcOH **MW:** 624.7

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

K_M: 0.8 mM **v_{max}:** 3.14 µmol/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. H_2O, 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:

1.700 ml 50 m11	0.700 ml buffer 0.100 ml factor XIIa (0.2 units/ml) 0.200 ml Pefachrome®6017 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®6017 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®6017 2 mM ==> Determination of ΔOD/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 **Code:** 081-45
Bulk [g] 081-11

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