

# Pefachrome<sup>®</sup> FXa (Pefa-5523)

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

**Formula:** CH<sub>3</sub>OCO-D-CHA-Gly-Arg-pNA·AcOH

**Principle:** CH<sub>3</sub>OCO-D-CHA-Gly-Arg-pNA + FXa ==> CH<sub>3</sub>OCO-D-CHA-Gly-Arg-OH + pNA + FXa

**Solubility:** Up to 4 mM in dist. H<sub>2</sub>O

**MW:** 622.7 g/mol

**K<sub>cat</sub>:** 140 s<sup>-1</sup>

**K<sub>M</sub>:** 0.106 mM

**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, 25 mM CaCl<sub>2</sub>

**Buffer:** 50 mM Tris-HCl pH 8.4

**RVV-X:** 25 AU/ml in 25 mM CaCl<sub>2</sub>

**Micro assay:** Suggested protocol for the determination of factor X in plasma:

0.100 ml RVV-X  
0.010 ml human citrated plasma  
⇒ incubate for 75 s at 37 °C - to activate factor X into factor Xa

0.790 ml buffer  
0.100 ml Pefachrome<sup>®</sup> FXa (4 mM in water)  
⇒ Determination of ΔOD/min at 405 nm

**Package size:** Vial containing 10 μmol  
Bulk [g]

**Code:** 085-20  
085-06

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