

## PENTAPHARM

# Pefachrome<sup>®</sup> FXa 8595 (corresp. S-2765)

**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:** Z-D-Arg-Gly-Arg-pNA · 2HCl

**Principle:** Z-D-Arg-Gly-Arg-pNA + FXa ==> Z-D-Arg-Gly-Arg-OH+ pNA+ FXa

**Solubility:** > 10 mM in dist. H<sub>2</sub>O

**MW:** 714.6 g/mol

**K<sub>cat</sub>:** 290 s<sup>-1</sup>

**K<sub>M</sub>:** 0.1 mol/L

**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 8595 (4 mM in water)  
=> Determination of ΔOD/min at 405 nm

**Package size:** Vial containing 25mg Pefachrome<sup>®</sup>FXa 8595

**Code:** 085-27

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