

Pefachrome[®] FIXa3960

- Application:** Chromogenic peptide substrate for the determination of Factor IXa
- Formula:** H-D-Leu-PHG-Arg-pNA·2AcOH
- K_m:** 0.997 mM **V_{max}:** 23.8 μM/min
- Solubility:** Up to 4 mM in H₂O **MW:** 660.73
- Principle:** Peptide substrate pNA + F IXa → Peptide-COOH + pNA (yellow)
- 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, reference material

Buffer: 50 mM Tris, pH 7.4, 154 mM NaCl, 5 mM CaCl₂, 40 % (vol/ vol) ethylene glycole

Method: Spectrophotometer or microtiter plate reader, wavelength 405 nm

Procedure: For the measurement temperature can be selected but should be kept constant. Pre-warm all reagents to the actual test temperature. For the kinetic version 37°C may be used, especially when a thermostated cell holder is available.

Microtiter plate reader	Spectrophotometer
0.200 ml buffer	0.800 ml buffer
0.025 ml Pefachrome [®] FIXa3960 (4 mM)	0.100 ml Pefachrome [®] FIXa3960 (4 mM)
0.020 ml sample	0.080 ml sample
⇒ determination of optical density at 405 nm for 5 min	⇒ determination of optical density at 405 nm for 5 min

Evaluation: The activity of factor IXa is calculated according to:
F IXa activity = (OD sample – OD sample blank)

Limitations and Interferences:

If no ethylene glycol is used, results may be affected in lower/decreased reproducibility. Falsely elevated results can be caused by turbidity or by coloured samples. This can be prevented by running a blank.

Packing size: Vial containing 25 mg
Bulk [g]

Code: 095-01

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