interchim

PENTAPHARM

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 **k_{vmax}:** 23.8 µM/min

Solubility: Up to 4 mM in H_2O **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 $CaCl_2$, 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 0.025 ml Pefachrome® FIXa3960 (4 mM) 0.020 ml sample ⇒ determination of optical density at 405 nm for 5 min	0.800 ml buffer 0.100 ml Pefachrome® FIXa3960 (4 mM) 0.080 ml sample ⇒ 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 Inteferences:

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

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