

Pefachrome® FXIa3371

Application: Highly sensitive chromogenic peptide substrate for the determination of factor XIa

Formula: Pyr-Phg-Arg-pNA·AcOH

K_m: 0.258 mM **k_{vmax}:** 8.77 μM/min

Solubility: Up to 4 mM in water **MW:** 598.62

Principle: Peptide substrate pNA + F XIa → 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 8.0, 154 mM NaCl

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 Substrate	0.100 ml substrate
0.050 ml enzyme	0.200 ml enzyme
⇒ 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 XIa is calculated according to:
F XIa activity = (OD sample – OD sample blank)

Package size: Vials containing 25 mg
Bulk [g]

Code: 090-40

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