

ANTICOAGULANT MONITORING

ANTI-Xa

ANTI-Xa ASSAYS

COLORIMETRIC ASSAYS

TECHNOCHROM® anti-Xa

Colorimetric assay



Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

Measurement of anticoagulants by colorimetric method.

The Technochrom® anti-Xa kit is a one-step colorimetric assay for the assay of heparinoids and Factor Xa inhibitors in citrated human plasma under hemostasis.

Components

- 1 vial x 4 mL chromogenic substrate, lyophilized
- 1 vial x 4 mL bovine FXa, lyophilized
- 1 vial x 20 mL Tris-EDTA buffer, pH 8.4

Characteristics

The assay is based on the inhibition of FXa by antithrombin (AT) in the presence of heparins. The residual FXa hydrolyzes the chromogenic substrate which releases paranitroaniline (pNa).

The measurement is made at 405 nm. The patient's plasma is not supplemented with exogenous AT. The anti-FXa measurement is therefore related to the antithrombin in the patient's plasma.

Dosage	Gamme d'essai	Limite de détection
Fondaparinux (Arixtra®)	0,07 – 2,04 µg/mL	0,07 µg/mL
LMWH	0,05 – 1,62 IU/mL	0,05 IU/mL
UFH	0,06 – 1,49 IU/mL	0,06 IU/mL
Danaparoid (Orgaran®)	0,08 – 1,60 IU/mL	0,08 IU/mL
Rivaroxaban (Xarelto®)	10 – 700 ng/mL	10 ng/mL

