

Antithrombin

24 months stability

Insensitive to
Heparin Cofactor II

FXa-based assay

Antithrombin (AT) is a liquid, functional, chromogenic assay based on the inhibition of FXa in the presence of heparin. The chromogenic AT assay measures the AT activity (functional AT) by a two-stage method as follows: An excess of FXa is added to the citrated plasma sample pre-diluted with saline and in the presence of heparin. The residual FXa cleaves the

peptide linked to the chromogenic FXa substrate, which results in the release of free p-nitroaniline (pNA). The amount of released pNA is measured at 405 nm and the absorbance is inversely proportional to the AT activity in the patient plasma, expressed as IU/mL or %.



- ▶ Liquid components, ready to use
- ▶ FXa-based assay
- ▶ Insensitive to Heparin Cofactor II (HCII)
- ▶ Detects both type I and type II AT deficiencies
- ▶ Excellent stability

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DETAILS

Product form	Liquid components, ready to use
Wavelength	405 nm

ANALYTICAL PERFORMANCE CHARACTERISTICS

ACL 9000 has been used for these measurements.

Measuring range	0.15–1.2 IU/mL		
	Sample	Repeatability	
Precision		Mean AT (IU/mL)	CV%
	Level 1	0.45	2.6
	Level 2	0.90	2.1
No interference with	<ul style="list-style-type: none"> ▶ Bilirubin <40 mg/dL ▶ Haemoglobin <150 mg/dL ▶ Triglycerides <500 mg/dL ▶ Unfractionated heparin <330 U/dL ▶ Low molecular weight heparin <330 U/dL 		

STABILITY AND STORAGE

Storage	2–8 °C
Shelf-life	24 months at 2–8 °C
Open-vial stability	4 weeks at 2–8 °C or 48 hours at 12–15 °C

ORDERING INFORMATION

PRODUCT NUMBER	PRODUCT NAME	CONTENT
C3105	Bovine Factor Xa 6 mL	6 mL
C3106	Factor Xa Substrate 3 mL	3 mL
C3235	Factor Xa Substrate 4.5 mL	4.5 mL
C3070	Bovine Factor Xa Bulk*	Bulk
C3071	Factor Xa Substrate Bulk*	Bulk

* Different filling volumes available upon request

ASSOCIATED PRODUCTS

PRODUCT NUMBER	PRODUCT NAME	CONTENT
C3122	Antithrombin Calibrator	1 mL
C3109	Routine Normal Control	1 mL
C3110	Routine Abnormal Control	1 mL
C3135	Sodium Chloride Diluent 5 mL	5 mL
C3137	Laboratory Water 5 mL	5 mL