

# MRX Antithrombin

- ▶ 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



MRX 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 %.

[sales@nordicbiomarker.com](mailto:sales@nordicbiomarker.com)  
[www.nordicbiomarker.com](http://www.nordicbiomarker.com)



For downloads, please visit [nordicbiomarker.com](http://nordicbiomarker.com)

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

## 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
K5033	MRX Antithrombin	3x6 mL FXa 3x4.5 mL Substrate

## ASSOCIATED PRODUCTS

PRODUCT NUMBER	PRODUCT NAME	CONTENT
K5041	MRX Antithrombin Calibrator	4x1 mL
K5039	MRX Routine Normal Control	10x1 mL
K5040	MRX Routine Abnormal Control	10x1 mL
K5046	MRX Sodium Chloride Diluent	10x5 mL
K5036	MRX Laboratory Water	10x5 mL