



INNOVANCE Anti-Xa assay

Anticoagulant testing, simplified

Simplify your anticoagulant testing with one streamlined, ready-to-use assay for heparin and DOAC testing.

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One solution for streamlined, ready-to-use anti-Xa testing

New! INNOVANCE Anti-Xa assay has now been extended to test for apixaban.

To monitor and manage bleeding risks, labs are asked to safeguard anticoagulant therapies such as heparin or direct oral anticoagulants (DOACs) by testing patients for a growing number of agents. This testing often requires significant time from lab staff, as multiple reagents and steps are frequently required to perform testing.¹

Anticoagulant testing, simplified

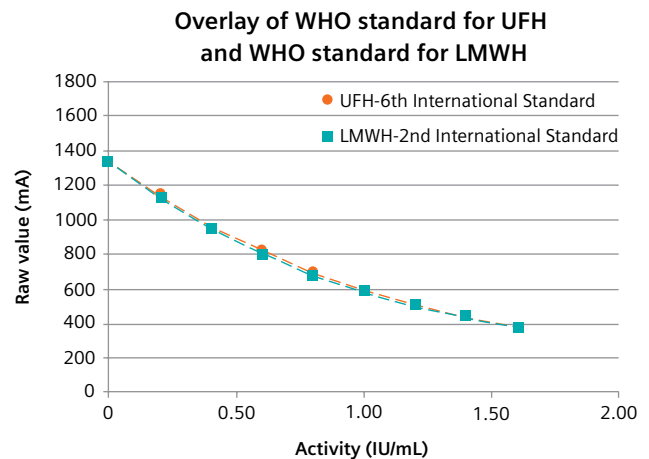
The INNOVANCE® Anti-Xa assay is an automated, chromogenic assay for the quantitative determination of the activity of unfractionated heparin (UFH) and low-molecular-weight heparin (LMWH) as well as apixaban concentrations in citrated human plasma. By combining heparin and DOAC testing into one simple and easy-to-use assay, the INNOVANCE Anti-Xa assay streamlines handling, reduces order complexity, and offers labs an economical testing outcome.

Available without the wait

The INNOVANCE Anti-Xa assay combines truly ready-to-use liquid reagent for heparin and DOAC testing, allowing 24/7 access to rapid and specific testing for anticoagulants. Unlike most other commercially available solutions, this assay requires no manual preparation or waiting time. These features not only help to control bleeding risk and balance drug dosing to prevent adverse patient outcomes, but accelerate your lab's anticoagulant testing workflow.

Why accurate DOAC assessment is imperative

Direct oral anticoagulants such as apixaban are direct anti-Xa inhibitor drugs that have evolved over time because of their convenient dosing and short half-life. Though the medication usually does not require monitoring, DOAC testing is needed to properly manage individuals with bleeding conditions, emergency situations that require unplanned surgery, and relevant comorbidities (e.g., renal insufficiency).¹



Measured with the INNOVANCE Anti-Xa assay on the BCS XP System.

Secure and precise result interpretation

The INNOVANCE Anti-Xa assay features a universal calibrator set that employs a single calibration curve for both types of heparin (UFH and LMWH), streamlining result interpretation and eliminating the risk of evaluation on the wrong curve. The universal calibrator set is traceable to the World Health Organization (WHO) standards for UFH and LMWH, helping to ensure that laboratory personnel can confidently and accurately interpret heparin results.

In addition, the INNOVANCE Anti-Xa assay features a drug-specific standard set for the DOAC apixaban allowing for accurate measurement of drug concentrations in ng/mL.

Why anti-Xa is the better choice for heparin testing

Heparin is a traditional anticoagulant drug and exists in two forms—UFH and LMWH—both of which considerably accelerate the inactivation of coagulation factor Xa by antithrombin. Clinical data shows that monitoring heparin with an anti-Xa assay has several advantages over APTT testing:²⁻⁶

- A smoother dose-response curve
- More-stable heparin levels during therapy
- Fewer blood samples required
- Fewer dosage adjustments

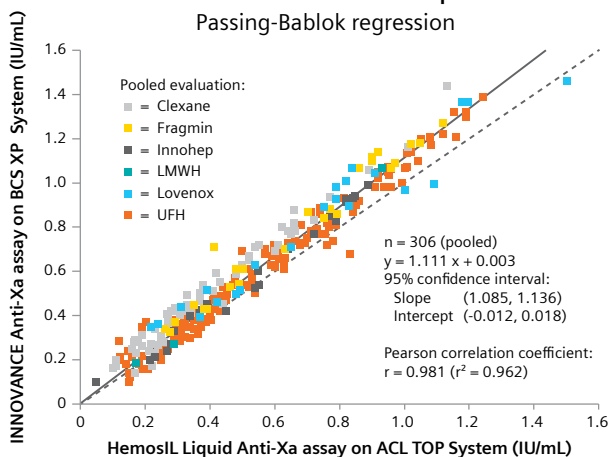
Robust performance across all parameters

- Single calibration curve for heparin testing that includes five levels for improved accuracy and precision
- Broad assay range of 0.10 to 1.50 IU/mL for UF and LMWH heparin, extendable up to 2.25 IU/mL by sample dilution, confirming consistency of single calibration curve concept

- Quantitative measurements of apixaban by using a drug-specific calibration curve
- Measuring range for DOACs of 20–350 ng/mL, extendable up to 700 ng/mL by sample dilution
- Robust assay design that reduces susceptibility to interferences

INNOVANCE Anti-Xa assay* method comparison study with UFH and LMWH samples

Passing-Bablok regression



Simplified workflow for labs of any size

With its compact and ready-to-use configuration, INNOVANCE Anti-Xa assay supports efficient anticoagulant testing. Applications are available for a wide range of systems, serving the needs of any-sized lab:

- Liquid reagents require no manual preparation or reconstitution, allowing staff to concentrate on high-value tasks
- Combined testing solution reduces handling, material, and ordering complexity for the lab
- Up to 36 tests per reagent vial across all systems, depending on test mix[†]
- Ready-to-use assay supports timely patient treatment
- Available on multiple platforms, including the BCS® XP,[‡] CA-660,[‡] CS-2500, CS-5100

INNOVANCE Anti-Xa assay* method comparison studies on CS-2500 System vs. HemosIL Liquid Anti-Xa on the ACL TOP for the measurement of apixaban.

	Number (n)	Correlation Coefficient (r)	Regression Equation	Predicted Bias at		
				30 ng/mL	50 ng/mL	100 ng/mL
NEW Apixaban	301	0.989	$y = 1.026x - 8.590 \text{ ng/mL}$	-7.8 ng/mL	-7.3 ng/mL	-6.0 ng/mL

[†]Test capacity ranges from 22–36 tests. DOAC tests only: 22 tests per vial; heparin tests only: 36 tests per vial.

[‡]Heparin applications only.

[§]UFH/LMWH, apixaban applications only.

Built on a proven principle: INNOVANCE Anti-Xa assay

The INNOVANCE Anti-Xa assay builds on the proven performance of the INNOVANCE Heparin assay. It leverages the same proven components used in the INNOVANCE Heparin assay, but now also includes DOAC testing capabilities. Further, it complements the Siemens Healthineers menu of hemostasis products that deliver the performance your lab needs to overcome the most difficult testing challenges.

Product Ordering Information

Product Name	Product Description	Siemens Material Number (SMN) REF
INNOVANCE Anti-Xa	5x Reagent 3.2 mL 5x Substrate 4.0 mL	SMN 10873681 REF OPPU05
INNOVANCE Heparin Calibrator	1x 5 Level for 1 mL	SMN 10873530 REF OPOB05
INNOVANCE Heparin LMW Control 1	5x for 1 mL	SMN 10873534 REF OPOE05
INNOVANCE Heparin LMW Control 2	5x for 1 mL	SMN 10873533 REF OPOF05
INNOVANCE Heparin UF Control 1	5x for 1 mL	SMN 10873531 REF OPOC05
INNOVANCE Heparin UF Control 2	5x for 1 mL 2x Standard 0 for 1 mL	SMN 10873532 REF OPOD05
INNOVANCE Apixaban Standards	2x Standard 1 for 1 mL 5x Control 1 for 1 mL	SMN 10873675 REF OPPW05
INNOVANCE Apixaban Controls	5x Control 2 for 1 mL	SMN 10873674 REF OPPV05



Contact your Siemens Healthineers representative today to simplify your anticoagulant testing with the INNOVANCE Anti-Xa assay.

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Further information is available at www.siemens-healthineers.com.

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