One Hemostasis System. Five Methodologies.

Infinite Possibilities.

Atellica COAG 360 System

siemens-healthineers.com/hemostasis







Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica® portfolio of laboratory products.

Control. Simplicity. Better Outcomes.

Hemostasis Labs Seek Control, Simplicity, and Better Outcomes.

When engineering its new breed of Atellica diagnostic solutions, Siemens Healthineers asked laboratory directors and managers like you to identify their top challenges. You told us that limited test menus and slow turnaround times hamper your ability to drive better outcomes for clinicians and patients. Manual processes add labor costs and, coupled with high supply costs, impact lab management. Meanwhile, increasingly stringent quality assurance documentation requirements complicate accreditation and compliance.

All of these factors hinder labs' competitiveness in the marketplace. Labs, therefore, are under continuous pressure to:

- Maximize service quality
- Improve cost efficiency
- Meet regulatory requirements
- Stay ahead of competitors

Siemens Healthineers engineered the Atellica® COAG 360 System* to address the obstacles of specialty hemostasis labs. The result is a next-generation coagulation analyzer that introduces a transformative array of capabilities to streamline and unify hemostasis testing.

The greater the range of tests in your lab's daily routine—and the faster you deliver reliable results—the better and more cost-efficiently you can support the clinicians and patients who rely on you.

The Atellica COAG 360 System enables simplicity, control, and better business and clinical outcomes as never before.

"Now prothrombin F 1+2 can be used as needed as an acute activation marker—routinely, with timely results and high reliability, on a random-access analyzer."

Dr. Munif Haddad Clinical Pathologist Labor Lademannbogen Hamburg, 2016



Lab Goals	Obstacles
Improve result quality	Preanalytical variables impact result integrity Ensuring sample quality is cumbersome and imprecise
Decrease turnaround time	 Increased demand for STAT sample processing Sample rejections/repeat tests Manual processes
Reduce costs	High skilled-labor costs Reagent management
Broaden test menu	High costs preclude low-volume specialty testing in-house
Simplify regulatory compliance	Growing quality assurance documentation requirements

^{*}Not available for sale in the U.S. Product availability varies by country.

Atellica COAG 360 System:

Transforming Care Delivery in Specialty Hemostasis Testing.

A world leader in hemostasis testing for more than 30 years, Siemens Healthineers once again has redefined what's possible in specialty hemostasis testing. The Atellica COAG 360 System is a fully automated high-volume coagulation analyzer that simplifies lab operations by unifying five methodologies on one platform, streamlining workflow, and delivering infinite possibilities by being the first to integrate LOCI® technology in specialty hemostasis testing. The system is engineered by Siemens Healthineers to deliver:

Control: Reduces manual interaction, extends walkaway time, and offers uninterrupted sample measurement through intelligent reagent and

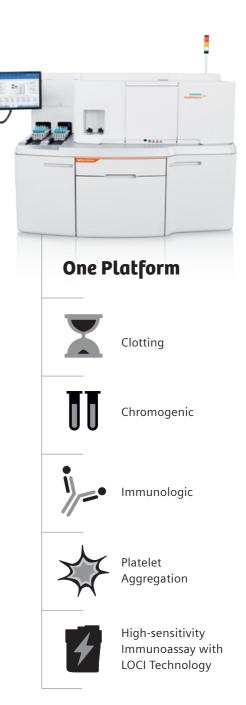
consumable management as well as continuous access to storage areas.

Simplicity: Integrates high-sensitivity immunoassay using LOCI technology and platelet aggregation testing, enabling labs to provide faster test results for all samples.

Better outcomes: With integration of platelet aggregation, Atellica COAG 360 System helps to save space, training costs, and lab tech time. Through the ability to process lower sample volumes than the traditional platelet aggregation testing method, the system allows standardized results for geriatric and pediatric samples and supports immediate diagnosis and improved patient outcomes.

Solution: Atellica COAG 360 System

 Advanced preanalytical screening for sample integrity (PSI™ checks) Automated processes minimize errors resulting from visual inspection 	во	
INNOVANCE® LOCI assays enable rapid turnaround time First-run test accuracy	во	Control
Vast system capacity, true continuous reagent and consumable loading enable uninterrupted sample measurement	С	
Five methodologies consolidated on one platform	S	
 Intelligent reagent and consumable management reduces manual interaction, extends walkaway time 	С	Simplicity
• Superior onboard reagent stability reduces waste, lowers reagent management costs, maximizes tests per vial	С	
Broad range of assays including easy-to-use INNOVANCE assays consolidate specialty and routine testing	S	Better
 In-depth audit and archive capabilities, detailed traceability of results, 21 CFR Part 11 compliance Full user-/role-based access management strengthens security 	С	Outcomes
	 Automated processes minimize errors resulting from visual inspection INNOVANCE® LOCI assays enable rapid turnaround time First-run test accuracy Vast system capacity, true continuous reagent and consumable loading enable uninterrupted sample measurement Five methodologies consolidated on one platform Intelligent reagent and consumable management reduces manual interaction, extends walkaway time Superior onboard reagent stability reduces waste, lowers reagent management costs, maximizes tests per vial Broad range of assays including easy-to-use INNOVANCE assays consolidate specialty and routine testing In-depth audit and archive capabilities, detailed traceability of results, 21 CFR Part 11 compliance 	• Automated processes minimize errors resulting from visual inspection • INNOVANCE® LOCI assays enable rapid turnaround time • First-run test accuracy • Vast system capacity, true continuous reagent and consumable loading enable uninterrupted sample measurement • Five methodologies consolidated on one platform • Intelligent reagent and consumable management reduces manual interaction, extends walkaway time • Superior onboard reagent stability reduces waste, lowers reagent management costs, maximizes tests per vial • Broad range of assays including easy-to-use INNOVANCE assays consolidate specialty and routine testing • In-depth audit and archive capabilities, detailed traceability of results, 21 CFR Part 11 compliance



Strengthen Control over Your Lab Operations.

Simplify Workflow. Improve Business and Clinical Outcomes.

"[The] systematic assessment of sample quality through the use of plasma indices on Atellica COAG 360 is a reliable and viable option for enhancing the quality in hemostasis testing."

Lippi, et al. Semin Thromb Hemost. 2017.



Control



1

Streamline workflow through reduced manual interaction, extended walkaway time, and uninterrupted sample measurement.

- Intelligent reagent and consumable management (true continuous loading, unloading, and real-time monitoring).
- Continuous access to all storage areas such as cuvettes, water, waste, reagents and stir bars. Direct plumbing of water and waste.
- Daily/weekly maintenance in less than 2/20 minutes, respectively, recorded at the touch of a button.
- User-defined automated start-up routine.
- Automated reflex, redilution, multidilution analysis, and repeat testing using customizable (lab-specific) rules.



2

Enhance operations through rapid throughput, superior reagent stability, and result traceability.

- Refrigerated chamber and anti-evaporation caps enable similar stability of once-opened and onboard reagents for many applications†—saving you more than 1.5 hours per week.† This lowers reagent-management costs, and maximizes tests per vial.
- Secure aliquot technology enables multiple tests per sample without the risk of debris from cap-piercing in the measurement system.
- Rapid throughput for specialty assays and profiles with multiple tests per sample. 24 flexible reaction detector positions and a dedicated LOCI reader enable high-capacity performance for a variety of test profiles. High specialty-testing throughput of 310 results per hour[§] delivers faster results.
- In-depth audit and archive capabilities allow thorough traceability of results, including >5 years' storage.
- Intuitive system interface leverages user-friendly software structure.

Simplicity





Unify hemostasis testing as never before possible.

- Combines five methodologies—clotting, chromogenic, immunologic, platelet aggregation, and high-sensitivity immunoassay (LOCI) testing—on one testing platform, speeding test results for all samples.
- Deploys fully automated reaction stirring enabling random access for special parameters (e.g. aggregation testing).
- Eases sample management with cap-piercing technology and the ability to process a large variety of primary and secondary sample tubes.
- Ready-to-use cleaning solution for simplified daily maintenance.





Leverage innovative assays and/or connectivity options to consolidate routine and specialty testing.

- Broad, easy-to-use specialty testing menu includes state-of-the-art INNOVANCE and INNOVANCE LOCI assays, consolidating routine and specialty testing onto one system.
- Flexible and multidisciplinary connectivity options allow customizable integration with point-in-space sample transfer design to our automation solutions: Aptio® Automation, FlexLab Automation, CentraLink® Data Management System.
- Designed to complement the proven Sysmex® CS-5100 System.

Better Outcomes



5

Reduce errors, minimize repeat testing with reliable test results.

- Advanced preanalytical capabilities using proven PSI technology and simultaneous multiwavelength scanning for reliable results on the first run.
- Primary-tube sample-volume checks, advanced assay-specific sample quality checks for hemolysis, icterus, and lipemia (HIL) interference.
- Nine predefined, assay-specific HIL interference warning levels used for all Siemens Healthineers applications.
- Simultaneous multiwavelength scanning reduces the effects of interfering substances on the absorbance spectra by automatically selecting optimal wavelengths.



6

Deliver infinite possibilities, focus on value-added services.

- First system to integrate LOCI technology and automate determination of prothrombin fragment F 1+2 into daily routine with a fast assay turnaround time of less than 15 minutes, four times faster than the current testing protocol.
- STAT results in less than 8 minutes allow fast and efficient handling of emergency samples.
- Gain time to shift lab focus from operational tasks to results interpretation, improved clinical outcomes.

†Please refer to instrument-specific reagent application/reference guide for more information.

‡Results based on a quantitative study comparing Atellica COAG 360 System and BCS® XP System.

§Throughput values were determined by the time to first result using Siemens Healthineers study protocol with cap piercing and HIL for PT/APTT/AT/DD (Thromborel® S, Pathromtin® SL, INNOVANCE Antithrombin, INNOVANCE D-Dimer reagents).

Increase Insight into Hemostatic Disorders.

Advance Your Preanalytical Protocol. Simplify Testing.

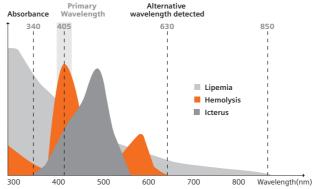


LOCI technology and INNOVANCE LOCI assays

An innovative homogeneous immunoassay technology developed by Siemens Healthineers, LOCI employs unique oxygen channeling technology and provides high precision with a small sample volume while reducing the risk of interference:

- Automate the determination of F 1+2 into your daily routine. The INNOVANCE LOCI F 1+2 assay* has a rapid turnaround time of less than 15 minutes four times faster than the current testing protocol.
- Enable single-sample measurement and STAT processing for emergency samples.
- Increase insight into hemostatic disorders with the new CE-marked INNOVANCE LOCI F 1+2 assay and INNOVANCE LOCI hs D-Dimer assay.**

Simultaneous Multiwavelength Scanning



Advanced preanalytical sample quality (PSI) checks

Preanalytical errors account for up to 70% of mistakes in laboratory diagnostics.³ Siemens Healthineers pioneered its proven PSI technology to deliver first-run test accuracy. The Atellica COAG 360 System significantly advances preanalytical capabilities:

- Detect underfilled or overfilled samples and efficiently identify assay-specific hemolytic, icteric, and lipemic (HIL) interferences using nine predefined levels.
- Reduce the effects of interfering substances and related re-testing by automatically selecting optimal wavelengths using simultaneous multiwavelength scanning at 340, 405, 630, and 850 nm.
- Manage problematic test samples, reduce repeat testing, and drive better outcomes with reliable results on the first test run.

You spoke, and Siemens Healthineers listened. The Atellica COAG 360 System delivers advantages never before available on a coagulation system.



Automated reaction stirring

For optomechanical and aggregation testing, the Atellica COAG 360 System enables random access for special parameters:

- Combine optical and optomechanical testing in a single instrument for greater efficiencies.
- Reduce your lab's acquisition costs, physical footprint, maintenance, consumable overhead, operator footsteps, and total cost of ownership.

^{*}Not available for sale in the U.S. Product availability varies by country.

^{**}Research use only. Not for use in diagnostic procedures. Not available for sale in the U.S. Product availability varies by country.

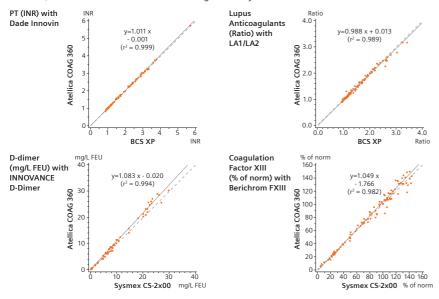
Scalable lab automation solutions.

Minimize Workflow Complexity. Gain Tighter Control of Your Lab.

The Atellica COAG 360 System is a powerful addition to Siemens Healthineers comprehensive portfolio of hemostasis systems delivering end-to-end capabilities and scalability to meet your lab's current and future needs. Flexible multidisciplinary connectivity options allow customizable integration with Siemens Healthineers automation solutions. For labs running both routine and specialty hemostasis tests, the Atellica COAG 360 System is designed

to complement the proven Sysmex CS-5100 System. For fully automated multidisciplinary testing, each system can connect to Aptio Automation Siemens Healthineers systems are backed by a broad assay-menu offering, and highly responsive maintenance and educational services. Siemens Healthineers is the only company that can serve as your single-source provider for complete automation of chemistry, immunoassay, hemostasis, and hematology workflows.

Figures 1–4. Correlation plots for Dade® Innovin®, LA1 screening, LA2 confirmation, INNOVANCE D-Dimer, and Berichrom® Factor XIII Chromogenic assays.



Simplify operations and gain greater insights with Atellica Diagnostics IT

Atellica Diagnostics IT leverages datadriven innovation to simplify workflows. Our scalable, easy-to-use solutions simplify tasks and maximize the effectiveness of the laboratory and its staff.

- Atellica Data Manager enables standardized testing protocols and result management throughout the lab and across lab networks.
- Atellica Process Manager provides centralized oversight and control of all systems,^{††} while also helping labs to standardize and optimize processes through built-in analytics.^{‡‡}

Enhance visibility, automate processes, and centralize management across instruments, automation, sites, and networks.



To learn more about how Siemens Healthineers solutions and services can bring control, simplicity, and better outcomes to your lab environment, please contact your local representative.

^{††}Instruments require virtual network computing (VNC) or Remote Desktop capability. Not available on all systems.

^{##}Functionality currently excludes real-time reagent status and real-time alerts. Remote system view and control features have not been validated and may not be supported. These features/functions are under development. Future development cannot be guaranteed.

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all made possible by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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