

Systemex CS-2500 Hemostasis System

Excel with Confidence

siemens-healthineers.com/hemostasis



Transform care delivery through optimized clinical operations

Siemens Healthineers has a proven record of providing hemostasis solutions that help busy labs to automate processes.

In recent years, the Sysmex® CS family of systems has streamlined preanalytical sample quality checks using PSI™ technology to help labs manage unsuitable samples prior to analysis and provide reliable results on the first run. This feature is especially important because preanalytical errors and unsuitable samples account for up to 70% of mistakes in the lab.¹ In approximately 15% of the instances, these errors have a significant impact on patient care.²

An estimated 9–15% of diagnostic errors have an impact on patient care. Many of these errors are due to the inappropriate collection, handling, or processing of samples referred for testing.²

Siemens Healthineers is pleased to take hemostasis testing to the next level with the Sysmex CS-2500 System, built on proven PSI technology employed in the Sysmex CS family of systems.

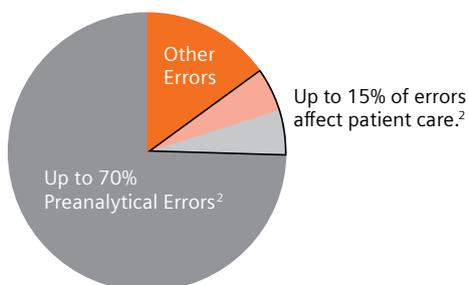


The Sysmex CS-2500 System's smartly designed technologies include assay-based preanalytical sample-quality checks using PSI technology, automated mixing studies, integrated platelet aggregation testing,* and clot waveform analysis (CWA)† for improved efficiency and reliable first-run results.

Designed to increase operational efficiency and streamline workflow, the Sysmex CS-2500 System uses advanced technology that enables labs to:

- Improve the quality of test results.
- Reduce the need for repeat testing.
- Achieve cost-effective method consolidation.
- Simplify operations and increase diagnostic confidence.

Diagnostic errors in the lab



*HYPHEN BioMed application. Not available for sale in the U.S.
†Research use only.

Excel with assay-based preanalytical checks that improve sample management for consistent results

The Sysmex CS-2500 System helps mid-volume labs achieve improved first-run reliability by identifying and automatically managing potentially problematic test samples prior to analysis. Simultaneous multiwavelength analysis and proven PSI technologies—including assay-based hemolysis, icterus, and lipemia interference (HIL), sample-volume checks for up to five different primary tube types, and clog detection—minimize repeat testing and manual reviews.

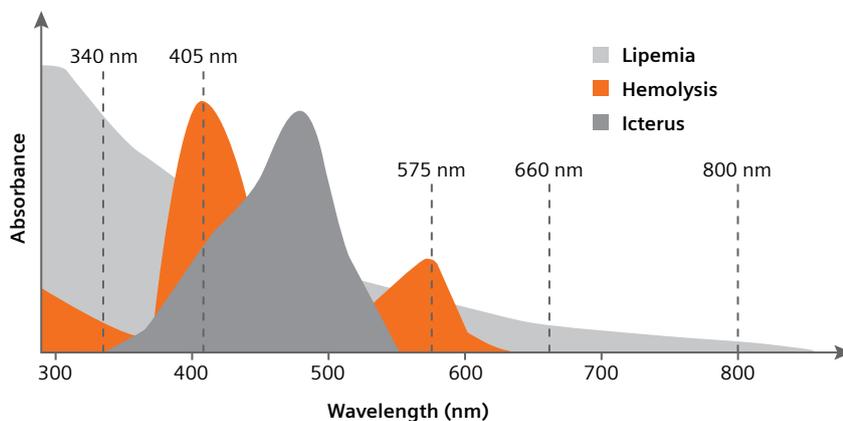
- Assay-based preanalytical sample-quality checks using PSI technology for HIL interference provide reliable results on the first run.
- Simultaneous multiwavelength scanning of clotting reactions at 340, 405, 575, 660, and 800 nm helps to reduce the effects of interfering substances by automatically selecting optimal wavelengths.
- Ten flexible reaction detectors enable high-capacity performance for a variety of test profiles to maximize productivity of the lab.

Preanalytical interferences associated with diagnostic errors in hemostasis²⁻⁴

| | Hemolysis | Icterus | Lipemia | Improper Tube Filling |
|---------------------------|---|----------------|--------------|-----------------------|
| Falsely Increased Results | PT, APTT, D-dimer, FV, FVII, FX | PT, Fibrinogen | Antithrombin | PT, APTT |
| Unaffected Results | APTT | | PT, APTT | |
| Falsely Decreased Results | APTT, Fibrinogen, Antithrombin, Thrombin Time | Antithrombin | Fibrinogen | D-dimer |

“The level of hemolysis causing clinically important changes is test-specific; therefore, test-specific thresholds should be used to assess patient samples that have hemolyzed during collection and/or processing.”⁵

Accurate test results from simultaneous multiwavelength scanning



Effect of preanalytical interferences vary. Please refer to instrument-specific reagent application/reference guide for more information.

Smartly designed technologies improve sample management, increase efficiency, and streamline lab workflow

Simultaneous multiwavelength analysis and proven PSI technologies identify and automatically manage potentially problematic test samples prior to analysis.

- Assay-based preanalytical sample-quality checks using PSI technology for HIL interference, sample-volume checks for up to five different primary tube types, and clog detection provide accurate and reliable results on the first run.
- Simultaneous multiwavelength analytical scanning detects and manages unsuitable samples to minimize retests and reflex testing.
- Ten flexible reaction detectors enable high-capacity performance for a variety of test profiles.
- Secure aliquot technology enables multiple tests per sample without the risk of debris from cap-piercing in the measurement system.



Get unlimited potential for high-capacity performance and extended walkaway time.

- Reagent capacity of up to 3000 tests,[§] with onboard capacity of up to 40 reagents and five additional buffer positions.
- Approximately 180 simultaneous PT/APTT tests/hour.**
- Anti-evaporation caps and refrigerated reagent table at approximately 10°C maximize onboard reagent stability.
- Tilted vials and SLD mini cups reduce reagent dead volume to maximize tests per vial.



Uninterrupted workflow delivered in compact, affordable footprint.

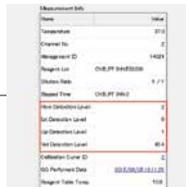
- Cap-piercing technology allows mix of capped and uncapped tubes and cups for dependable throughput.
- Simultaneous processing of primary samples and micro mode for precious pediatric samples increase productivity.
- Accessible reagent table enables convenient reagent loading without interrupting sample measurement.
- Continuous consumables and sample loading helps streamline workflows.
- Automated QC checks are performed at user-defined intervals, and daily maintenance requires less than 5 minutes.
- Ready-to-use cleaning solution simplifies daily maintenance.





Automated mixing studies, integrated platelet aggregation,* and CWA[†] deliver cost-effective instrument and staff consolidation.

- Automated mixing studies help clinicians make decisions regarding factor deficiencies and circulating inhibitor patterns.
- Integrated platelet aggregation testing* simplifies and automates assessment of inherited, acquired, or drug-induced platelet disorders.
- CWA[†] illustrates the optical reaction profile during PT or APTT measurement and provides qualitative and sensitive waveform patterns.
- Powerful, easy-to-use graphical analysis tools simplify operations.



Improve efficiency with a wide spectrum of assay parameters, testing methodologies, and sophisticated software.

- Optical methodology displays clot formation for evaluation of fragile clots.
- Mixing studies using multidilution analysis (MDA), automated repeat, redilution, and reflex testing are consolidated on one platform.
- 24-inch touchscreen and intuitive software provide an easily customizable and user-friendly interface.
- The system provides high test throughput using four measurement principles along with traceability of sample results and audit trails.



True lab-to-lab consistency enables confident multisite patient monitoring.

- Results correlate with the Sysmex CN-3000 and CN-6000, CS-5100, and CA-600 families of hemostasis systems.
- Seamless integration of instruments and standardized PSI technology optimize use across multisite labs.
- Standardized software, reagents, controls, and calibrators improve convenience, offer cost savings, and reduce waste for more efficient utilization of labor.

*HYPHEN BioMed application. Not available for sale in the U.S.

†Research use only.

§Test capacities: PT—3000; PT/APTT—2880; PT/APTT/Fbg—2840.

**Throughput values were determined by the time to first result using Siemens Healthineers study protocol with PT (Thromborel® S reagent), APTT (Pathromtin® SL reagent) test applications.

Excel with smartly designed technologies that simplify lab operations and allow cost-effective consolidation

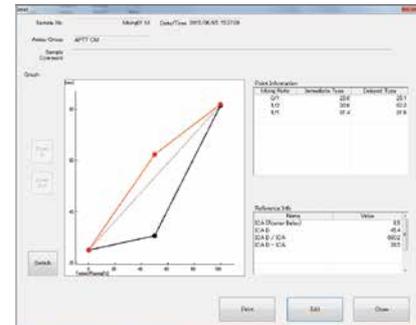
The Sysmex CS-2500 System streamlines workflow, saving valuable time and resources while enabling clinicians to make informed clinical decisions with powerful, easy-to-use graphical analysis tools.

- Automated mixing studies help clinicians make decisions regarding factor deficiencies and circulating inhibitor patterns.
 - Automated dilution of sample with graphical output allows easy analysis.
- Integrated platelet aggregation testing* provides cost-effective system consolidation for detection of inherited, acquired, or drug-induced platelet disorders.
 - Streamlined workflow with fewer instruments and less specialized staff leads to significant time and resource savings.
 - Standardized testing reduces variability of results and helps to minimize the need for retesting.
 - Ability to process low sample volumes (140 µL per test) enables testing for geriatric and pediatric patients.
- Clot waveform analysis† illustrates the optical reaction profile during PT or APTT measurement, providing qualitative information as well as sensitive, quantitative waveform patterns.
 - Clinicians can dig deeper into certain underlying clinical conditions such as disseminated intravascular coagulation (DIC), sepsis, antiphospholipid antibodies (LA), factor deficiencies, and presence of heparin.
- Intuitive system interface helps streamline lab operations with onboard help, configurable maintenance, quality control procedures, and real-time monitoring of reagents and consumables.

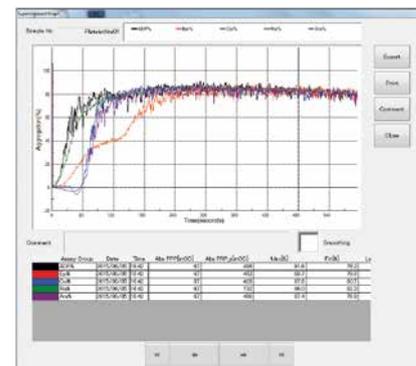
Simplify operations and gain greater insights with Atellica Diagnostics IT.

Atellica® Diagnostics IT complements our comprehensive portfolio of lab innovations and services by unifying data from your instrument and automation systems, combining sample, process, result, QC, and inventory data for greater insights. This gives you greater visibility into your lab's clinical, operational, and financial performance every step of the way, from sample collection to results reporting.

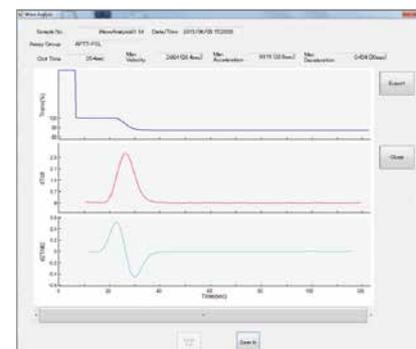
Automated mixing studies



Integrated platelet aggregation*



Clot waveform analysis†



Atellica® Data Manager

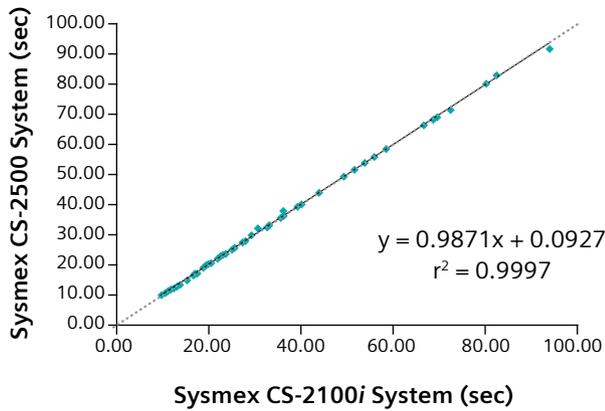


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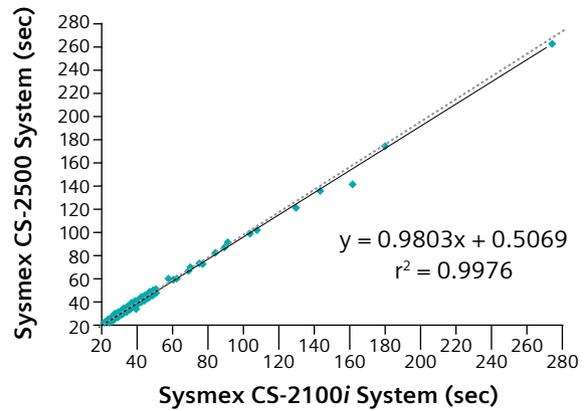
Excel with true lab-to-lab consistency for confident multisite patient monitoring

“The inclusion of innovative functionality in new analyzers is highly desirable, in addition to the prerequisites of sample throughput, result precision, and comparability. The Sysmex CS series of analyzers has made significant advances in addressing these issues.”⁶

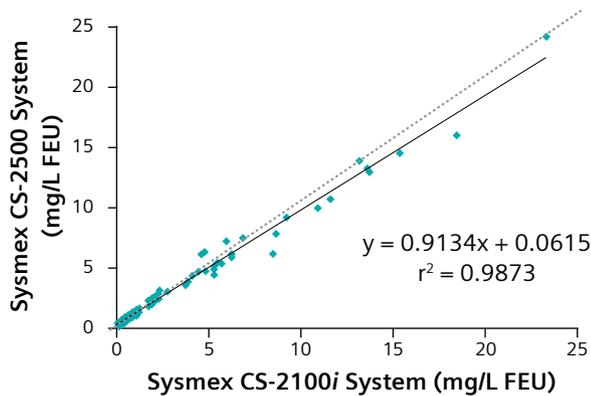
PT with Dade® Innovin® assay⁶



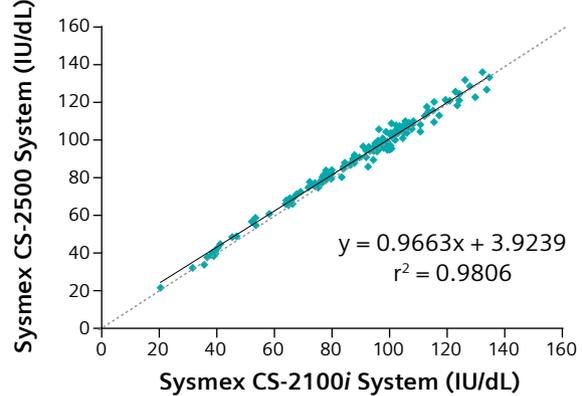
APTT with Dade Actin® FS assay⁶



D-dimer with INNOVANCE® D-Dimer assay⁶



AT with INNOVANCE Antithrombin assay⁶



Sysmex CN-3000 and CN-6000 Systems^{††}
Mid- and high-volume, fully automated solutions featuring a small footprint, high throughput, smart workflows and flexible configurations



Sysmex CS-5100 System
High-volume, fully automated solution featuring PSI technology, full automation connectivity, and third-generation cap-piercing technology



Sysmex CA-600 Systems
Compact, fully automated coagulation analyzers offering a variety of configurations for clotting, chromogenic, and immunologic methods

^{††}The products/features/applications mentioned here are not commercially available in all countries and are subject to local regulations. Their future availability cannot be guaranteed. Not available for sale in the U.S.

At Siemens Healthineers, we pioneer breakthroughs in healthcare. For everyone. Everywhere. By constantly bringing breakthrough innovations to market, we enable healthcare professionals to deliver high-quality care, leading to the best possible outcome for patients.

Our portfolio, spanning from in-vitro and in-vivo diagnostics to image-guided therapy and innovative cancer care, is crucial for clinical decision-making and treatment pathways. With our strengths in patient twinning, precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the biggest challenges in healthcare. We will continue to build on these strengths to help fight the world's most threatening diseases, improving the quality of outcomes, and enabling access to care.

We are a team of 66,000 highly dedicated employees across more than 70 countries passionately pushing the boundaries of what's possible in healthcare to help improve people's lives around the world.

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Sysmex CS-2500 System refers to Automated Blood Coagulation Analyzer CS-2500. Sysmex CS-2100i System, CN-3000 System, CN-6000 System, CA-620 System and CA-660 System refer to Automated Blood Coagulation Analyzer CS-2100i, -CN-3000, -CN-6000, -CA-620, -CA-660 respectively.

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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References:

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