

Automated Blood Coagulation Analyzers

# CS-2500™

Less complexity,  
more confidence.



Together for a better  
healthcare journey

# Reliability and flexibility for complex testing

Sysmex hemostasis solutions bring together advanced technology, trusted reagents and award-winning service to provide laboratories with reliable results for diagnosing and treating their most critical patients. The CS-2500™ Automated Blood Coagulation Analyzer leverages PSI™ technology and advanced simultaneous multi-wavelength analysis to ensure high-quality routine and specialized testing for mid-volume and high-volume laboratories.

The CS-2500 is a fully automated coagulation analyzer that consolidates a wide range of hemostasis testing in a single instrument, allowing you to streamline your workflow. Employing transmitted light detection for clot analysis and chromogenic, immunoturbidimetric and aggregation\* technology for specialty testing, the CS-2500 delivers up to 60 selectable parameters, making it ideal for multi-functional laboratories with demanding diagnostic needs.

## Thoughtful design and features

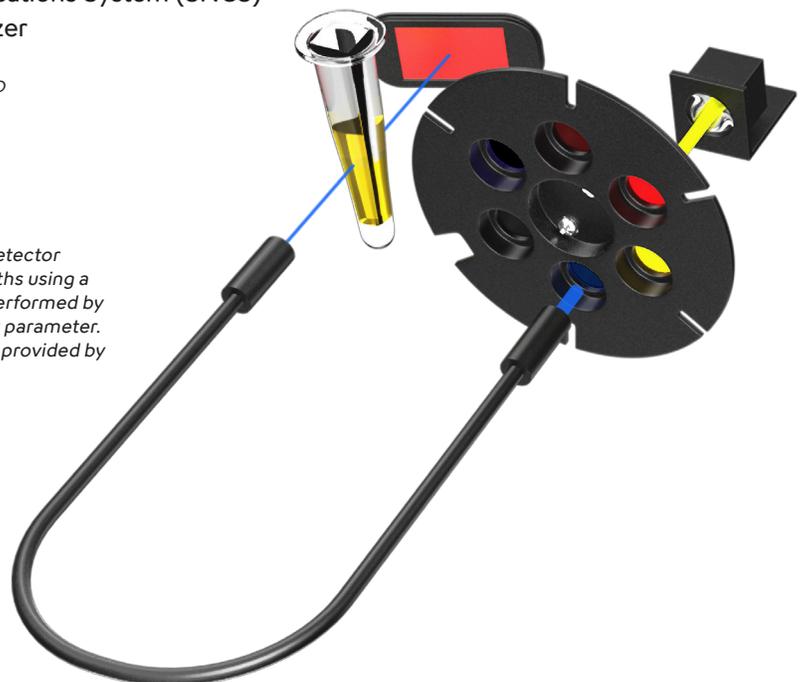
The CS-2500 offers many convenient features to provide ease-of-use while ensuring confidence in results:

- Cap piercing and the ability to process sample racks with mixed tube types
- Single bolus aspiration for all testing with continuous sample loading and random access
- Consolidation of routine and specialized testing in a single platform
- Preanalytical sample checks for hemolysis, icterus and lipemia as well as tube fill volume
- Utilization of simultaneous multi-wavelength technology for high-quality results
- Rule-based rerun and reflex testing to maximize walkaway capability
- Comprehensive reagent management ensures efficient identification, loading and use of reagents
- Access to Sysmex Network Communications System (SNCS) for proactive monitoring of your analyzer

*\*For research use only, not for use in diagnostic procedures. RUO assays must be validated before use in clinical practice.*

**Fig 1: Multi-wavelength technology principle**

*Dispersed light is transmitted by an optical fibre to the detector block. The reaction process is detected at five wavelengths using a multi-wavelength detection system. Measurement is performed by selecting the optimal wavelength for each measurement parameter. In the case of an abnormal waveform, reliable data is still provided by switching the primary and secondary wavelengths.*

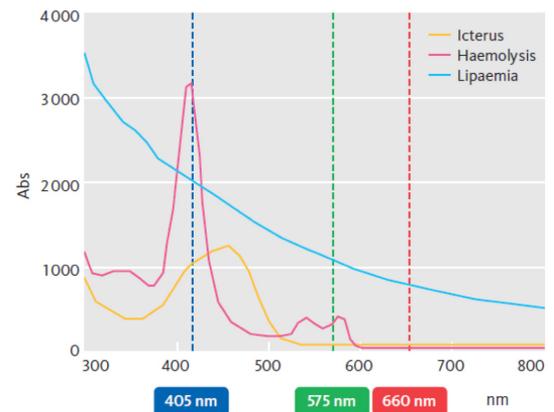


# Sample integrity checks for peace of mind

Unsuitable samples can be a source of incorrect results or lead to increased hands-on time for laboratory scientists. The Sysmex PSI (Preanalytical Sample Integrity) technology is able to identify when sample tubes are underfilled or overfilled and scans for interferences caused by hemolysis, icterus and lipemia. Simultaneous multi-wavelength technology determines the ideal wavelength for analyzing each sample, greatly elevating the quality of the results. Sample interference is graded and flagged by the analyzer and results can be accepted or rejected based on laboratory policies and procedures.

## High performance and diagnostic value

To ensure quality results, the CS-2500 employs photo-optical clot detection, which allows the display of the full clot signature. The CS-2500 also offers multiple patient sample dilutions for single coagulation factor analysis. Automated, rule-based repeat and reflex testing means you get the results you need with no additional intervention.



By performing premeasurement photometry on the initial bolus, the system can display hemolysis, icterus and lipemia status as a flag. The laboratory can set thresholds for each flag and measurement parameter.



# Key Specifications

<b>Model</b>	CS-2500™
<b>Detection Methodology</b>	Clotting, chromogenic, immunoturbidimetric, aggregometry*
<b>Wavelengths</b>	340 nm, 405 nm, 575 nm, 660 nm, 800 nm
<b>No. of Detector Channels</b>	10
<b>Throughput</b>	PT: 180 tests/hour PT/aPTT: 180 tests/hour
<b>Available Assays</b>	<ul style="list-style-type: none"><li>• PT</li><li>• APTT</li><li>• Fibrinogen</li><li>• Thrombin Time</li><li>• Reptilase Time</li><li>• Factor Activity</li><li>• Lupus Anticoagulant</li><li>• Thrombophilia</li><li>• Heparin</li><li>• D-Dimer</li><li>• von Willebrand factor</li><li>• Fibrinolysis</li></ul>
<b>Reagent Positions</b>	40
<b>Data Storage</b>	Up to 10,000 samples
<b>Quality Control</b>	Levey-Jennings; Westgard multi-rule
<b>Dimensions and Weight</b>	30.5" (W) x 35.2" (D) x 27.0" (H); 243 lbs 775 mm (W) x 895 mm (D) x 685 mm (H); 110 kg

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