

Fully Automated Coagulation Analyser CS-1600

The Sysmex CS-1600 system is a fully automated coagulation analyser that is ideal for mid-sized coagulation laboratories requiring an easy-to-use, cap-piercing analyser capable of running clotting, chromogenic, and immunologic assays simultaneously.

Using novel technologies, the CS-1600 assured laboratories of consistent accuracy & reliability in their testing results. In addition, there are various high-end functionalities aimed at helping laboratory operators improve their work efficiency, and providing extra support to laboratory accreditation requirements and operations.



Reagent Test Menu	
PT	Dade Innovin, Thromborel S
APTT	Dade Actin, Dade Actin FS, Dade Actin FSL, Pathromtin SL
Fibrinogen	Dade Thrombin, Dade Fibrinogen Determination Reagent
Thrombin Time	Test Thrombin, Thromboclotin
Batroxobin Time	Batroxobin
Factor Deficiency	Factor II, V, VII, VIII, IX, X, XI, XII
Lupus Anticoagulant	LA1 screen, LA2 confirmation
Protein C Pathway	ProC Global, Protein C Reagent, Berichrom Protein C, Protein S Ac, Innovance Free Protein S
Antithrombin	Innovance Antithrombin, Berichrom Antithrombin III (A)
D-Dimer	Innovance D-Dimer
Von Willebrand Factor	vWF Ag, Innovance vWF Ac
Chromogenic	Factor VIII Chromogenic, Berichrom C-1 Inhibitor, Berichrom α 2-Antiplasmin, Berichrom Plasminogen

Design and specifications may be subject to change due to further product development.

Registered under Act 737
Registration No:
IVDC8264921-69696

Sysmex Asia Pacific Pte Ltd
Tel +65 6221-3629 Fax +65 6221-3687
www.sysmex-ap.com

Sysmex India Pvt. Ltd
Tel +91 (22) 6112-6666
www.sysmex.co.in

PT Sysmex Indonesia
Tel +62 (21) 3002-6688 Fax +62 (21) 3002-6699
www.sysmex.co.id

Sysmex (Malaysia) Sdn Bhd
Tel +60 (3) 5637-1788 Fax +60 (3) 5637-1688
www.sysmex.com.my

Sysmex New Zealand Ltd
Tel +64 (9) 630-3554
www.sysmex.co.nz

Sysmex (Thailand) Co., Ltd
Tel +66 (2) 032-2536 Fax +66 (2) 116-5396
www.sysmex.co.th

Sysmex Philippines Inc.
Tel +63 (2) 621-2460 Fax +63 (2) 621-2432
www.sysmex.com.ph

Sysmex Vietnam Co., Ltd
Tel +84 (8) 3997-9400 Fax +84 (8) 3997-9405
www.sysmex.com.vn

Sysmex Vietnam Co., Ltd (Hanoi Branch)
Tel +84 (4) 3776-7020 Fax +84 (4) 3776-7022
www.sysmex.com.vn

Sysmex Australia Pty Ltd
Tel +61 (2) 9016-3040
www.sysmex.com.au

Specifications

Measurement	
Principle	Multi-Wave Detection System: Transmitted Light Detection Method Clotting Assays: 405, 660, 800 nm (Percentage Detection Method) Chromogenic Assays: 405 nm (Rate Method) Immunoassays: 575, 660, 800 nm (Rate Method, VLIn Method)
Configuration	CS-1600 Cap-piercing Model
Detector	8 channels for clotting assays, chromogenic assays and immunoassays The transmitted light (or A/D value) is detected every 0.1 seconds Maximum reading time is 1800 seconds
Throughput	PT: 120 test/h PT/APTT: 110 test/h PT/APTT/Fbg/DD: 70 test/h
Random Access	20 simultaneous parameters

Sample Handling	
Type of Sample	Primary tubes and sample cups
Barcode Identification	Automatic positive sample identification
Handling	Handle racks with a mixture of closed and open tubes, and sample cups
Capacity	Continuous loading of maximum 5 racks of 10 tubes each
STAT	STAT sample can be analysed as priority by executing either sample or rack interruption
Aspiration	The sample probe, with a liquid surface sensor, quantitatively aspirates plasma from centrifuged whole blood samples

Reagent and Consumable Handling	
Reagent holder	28 reagent vial positions (15°C); 12 positions are tilted at 10° to reduce dead volume 5 positions (room temperature)
Barcode Identification	External 2-D handheld barcode reader for positive reagent identification; type, lot number, expiry, and calibrators, controls and reagents' assay values input
Handling	Mixture of different vial types with use of various adaptors
Monitoring	Real-time monitoring of on-board stability, remaining volume/tests
Reaction tubes	Automatically supplied from an internal hopper Continuous loading of max. 300 tubes

Quality Control	
Method	X-bar control, Levy-Jennings control Multi-rule (Westgard Rule) monitoring
File Capacity	300 data points x 40 files in memory

Calibration	
Multi Lot Reagent Management	Max. 5 reference curves per lot Max. 5 lots per parameter
Dilution Points	2-9

Data Management	
Memory Capacity	3,000 sample results with reaction curves
Output	Graphic or Data Printer (optional)

Software	
IPU	McAfee Embedded Security provided
Host Communication Interface	CA-500/1500 format, CS format, Coagrex800 format, ASTM format
Host Connection	Bi-directional RS-232C serial port or via Ethernet-TCP/IP
Operating System	Windows-based

Power Supply	
Operating Voltage	100 – 240V
Consumption	680 VA max
Frequency	50 or 60 Hz

Dimensions and Weight	
Main Unit	Approx. 760(W) × 690 (D) × 540 (H) mm, Approx. 85 kg

Operating Environment	
Ambient Temperature	15 - 30°C
Relative Humidity	30 - 85%
Heat Compensation	Approx. 2,205 BTU/h (556 kcal/h)
Noise Level During Analysis	60 dB or less