

Product Fact Sheet

CA-101



Product name

Sysmex CA-101 Semi-automated Blood Coagulation analyser

Manufacture information

LABiTec GmbH
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Germany

Sysmex Corporation
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Summary

CA-101 is an opto-mechanical coagulation analyser which applies the turbodensitometric measuring principle.

Productivity values

CA-101 is an opto-mechanical coagulation analyser which applies the turbodensitometric measuring principle. Despite the very small footprint all routine clotting tests such as PT, APTT, Fbg, TT, and single factor assays can be performed.

The analyser operates according to the opto-mechanical measuring principle. This measuring principle is especially suited for lipemic and/or icteric coloured samples.

This one-channel analyser measures one test per run.

The instrument incubates and mixes sample and reagent automatically and indicates when to add starting reagent. The auto-start function automatically detects when reagent is added (pipetting is done manually) and triggers mixing and clot detection. This procedure requires only little manual intervention, is easy to perform and ensures consistent, high quality results.

Clinical values

CA-101 uses turbo-densitometry and combines the best of both mechanical and optical detection principles. The lamp intensity automatically adjusts to sample turbidity, which means all samples are properly analysed with constant high quality results. Results are automatically calculated for PT and Fibrinogen. They can be output to an optional external printer.

The CA-101 uses the same Siemens reagents as on the other Sysmex automated blood coagulation analysers with pre-programmed protocols.

Article number

Article no.	Item	Description	Qty
AE340532	CA-101 COMPLETE	Semi-automated Blood Coagulation analyser for hemostasis testing. (1)Main unit (2)Supply parts with main unit.	1
AG405069	SUL-400A CUVETTE FL COMPLETE	Cuvettes FL in Dispo System (5x100), filled with Mixer 1x4mm & CuvCARD	500
Optional			
AL310001	CA-101/104 printer cable	For external data printer, contact Sysmex Europe	1
	Thermal printer	Local purchased thermal printer. Refer to the IFU for the specified model.	

Technical specifications

Feature	Description
Dimensions – Main Unit (appr.)	
Width	130 mm
Depth	205 mm
Height	60 mm
Weight	0.65 kg
Electrical rating	
Voltage	
• Main Unit	DC 12 V
• With AC adaptor	100 – 240 V
Power consumption	
• Main Unit	0.8 VA or less
• With AC adaptor	0.4 VA or less
Heat compensation required	Appr. 32.6 BTU/h
Protection type	
• Main Unit	Class III equipment

• With AC adaptor	Class II equipment
Operating environment	
Ambient temperature	10 – 30°C
Relative humidity	Up to 85%
Temperature control	
Detector and incubator	37.4°C ± 0.3°C
Detector	1 well
Reagent holder	1 position for 37°C For GW5
Incubation positions	4 pre-warmed positions
Display	1 line with 8 characters LCD

Analytical specifications

Feature	Description
Simultaneous analysis parameters	1
Wavelength	870 nm
Detection time	Up to 6,000 seconds
Calibration curves	2 – 9 points / curve Scales linear / reciprocal / logarithmic Calculation of INR and ratio
Stored data	No
QC data	No

Parameters, performance data and reagents

Analysis parameter		Reagent name	Reagent volume (µl)	Sample volume (µl)	Incubation time (seconds)	Manufacturers reproducibility data (CV%)
PT-Innovin	CE-marked	Dade Innovin	100	50	30	≤ 5% appr. 2%
APTT	CE-marked	Dade Actin CaCl ₂	50 50	50	180	≤ 5% appr. 2%
		Dade Actin FS CaCl ₂	50 50	50	180	
		Dade Actin FSL CaCl ₂	50 50	50	180	
		Pathromtin SL CaCl ₂	50 50	50	120	
Fibrinogen	CE-marked	Multifibrin U	100	50	60	≤ 10% appr. 5%
PT Thromborel S	CE-marked	Thromborel S	100	50	60	≤ 5% appr. 2%