

Product Fact Sheet

CA-104



Product name

Sysmex CA-104 Semi-automated Blood Coagulation analyser

Manufacture information

LABiTec GmbH
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Germany

Sysmex Corporation
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Summary

CA-104 is an opto-mechanical coagulation analyser which applies the turbodensitometric measuring principle.

Productivity values

CA-104 is an opto-mechanical coagulation analyser which applies the turbodensitometric measuring principle. Despite the small footprint all routine clotting tests such as PT, APTT and Fibrinogen assays can be performed. Other assays are optional.

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

The CA-104 can perform 4 measurements in one 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-104 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. There is an internal printer, but also an external printer can be connected.

The CA-104 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
CP944871	CA-104 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
AC845489	CA-104 THERMAL PAPER	width: 57 mm outer diameter: 30 mm	10 rolls / pack
Optional			
AL310001	CA-101/104 printer cable	For external data printer, contact Sysmex Europe	1
	Thermal printer	Local purchased thermal printer. See the IFU for the specified model.	

Technical specifications

Feature	Description
Dimensions – Main Unit (appr.)	
Width	310 mm
Depth	270 mm
Height	95 mm
Weight	2.9 kg
Electrical rating	
Voltage	
• Main Unit	DC 24 V
• With AC adaptor	100 – 240 V

Power consumption	
• Main Unit	2 VA or less
• With AC adaptor	2.5 VA or less
Heat compensation required	Appr. 163 BTU/h
Protection type	
• Main Unit	Class III equipment
• With AC adaptor	Class I 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	4 wells
Reagent holder	4 positions for 37°C 1 position for room temperature For GW5 (with adaptor) and GW15 vials
Incubation positions	16 pre-warmed positions
Display	2 lines with 20 characters each LCD

Analytical specifications

Feature	Description
Simultaneous analysis parameters	1
Wavelength	870 nm
Detection time	Up to 420 seconds
Calibration curves	2 – 9 points / curve Scales linear / reciprocal / logarithmic Calculation of INR and ratio
Stored data	Depending on the SD-card capacity
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%