

Product Fact Sheet

CA-620



Product name

Automated Blood Coagulation Analyser CA-620

Manufacture information

Sysmex Corporation www.sysmex-europe.com

Summary

The Sysmex® CA-620 is a compact, fully automated blood coagulation analyser for in vitro diagnostics. It incorporates latest technology, thus enabling analysis of multiple parameters with increased flexibility.

The CA-620 enables to measure coagulation samples with clotting method

It is able to measure up to five parameters simultaneously. The combination of Scattered Light Detection Method and End Point Detection Method for clotting tests ensures highly reliable test results.

An integrated barcode scanner enables positive sample identification and guarantees the exact assignment of results and patients. The analyser also comes standard with a reagent cooling unit.

Article numbers

Article no.	Item	Description	Qty		
Instruments					
BR142626	Coag Analyser CA-620	Measuring unit	1		
BT559640	CA-600 supply part (EXP)		1		
Accessories	Accessories				
CS073970	KIT NO.190 (SAMPLE BR)	Sample ID barcode reader to use with CA-620 main unit.			
CT904571	2D barcode reader (1900GSR-1)	2D barcode reader (1900GSR-1)	1		
BV088995	Kit No. 191 (CA- 600 series Serial cable)	Connection cable of 2D barcode reader	1		
AH492483	Kit No. 189 (CA- 600 SNCS kit)	Optional kit to add SNCS option to CA-600 analyzers	1		
07327520	Sample Rack (White)		1		
Consumables					
90407219	Reaction Tube (SU-40)	Reaction tubes for CA analysers	3.000 pcs		
42411608	Sample Cup Conical	Conical sample cups, 4 ml	100 pcs		
CW742798	Thermal Paper CL5840	Paper roles for integrated thermal printer	5 rolls		
96406313	CA Clean I	Detergent	50 mL		
BT565104	CA Clean II	Detergent	45 mL		
54113521	Push Vial PV-10	Reagent vial	10 pcs		
01317714	SLD Vial Assy	Reagent vial	10 pcs		
AJ046225	Reaction Tube Trash Box		1		



Spare Parts			
BC963426	Fuse 250V 4.0A		1
BX177453	Label No.966 (Reagent Indication Mark)		1
AS244534	Filter No.598		2
043-3581-4	Trap Chamber Complete		1
BP577416	Rinse Bottle Assy (5L)		1
AS977096	Waste Bottle Assy (5L)		1
AJ387179	Reagent Rack Assy		1

Technical Specifications

Feature	Description	
Data Storage Capacity		
Results	3000 test (600 samples)	
Reaction Curves	600	
Electrical specification		
Power Requirement	100-240 V AC	
Frequency	50 or 60 Hz	
Power consumption	300 VA or less	
Display	4.5 in x 3.4 in liquid crystal display (with color LCD backlight)	
	Touch panel type	
External Input/Output	RS-232C for Host Computer	
	RS-232C for external barcode reader	
	LAN port for SNCS connection	
Printer	Built-in thermal printer for analysis data and graphic prints	
Environmental specification		
Operating temperature	15°35 °C	
Humidity	30 % - 85 %	
Temperature Compensation Required	Approx. 1.365 BUT/h (344 kcal/h)	

Feature	Description
Dimension	
Width	566 mm
Height	490 mm
Depth	490 mm
Weight	Approx. 43 kg
Temperature Control	
Detector	37 °C ±1 °C
Sample Incubator	37 °C ±1 °C
Reagent Pipette	37 °C ±1 °C
Cooling Unit	15 °C ±2 °C
Start up	Within 30 min after switch on
Protection Type	Class I Equipment

EMC (Electro-magnetic compatibility)

This equipment is in conformity to the IEC (EN) standard: IEC61326-2: 2005 (EN 61326-2-6: 2006)

Electrical equipment for measurement, control, and laboratory use (EMI requirements)

- EMI (Class B)
- EMS (Immunity test requirements for equipment intended for use in industrial locations)



Analytical Specifications

Feature	Description
Analysis Parameters	Prothrombin Time (PT): sec.
	Activated Partial Thromboplastin Time (APTT): sec.
	Fibrinogen (Fbg): sec.
	Thrombin Time (TT): sec.
	Extrinsic Factors (II, V, VII, X): sec.
	Intrinsic Factors (VIII, IX, XI, XII): sec.
	Protein C, clotting: sec.
	Batroxobin (BTX): sec.
	Lupus Anticoagulant (Screening & Confirmation): sec.
Calculated Parameters	Prothrombin Time (PT): %, PT Ratio, INR, Derived Fbg (dFbg)
	Fibrinogen (Fbg): mg/dL or g/L
	Extrinsic Factors (II, V, VII, X): %
	Intrinsic Factors (VIII, IX, XI, XII): %
	Protein C, clotting: %
Analysis Principle	Coagulation Reaction Detecting Method (Scattered Light Detection Method)
	Coagulation Point Detection
	Method (Percent Detection Method)
Random Analysis	Simultaneous random analysis of 5 parameters
Detection time	Typical maximum detection time
	100 sec. for PT
	100 sec. for Fbg
	190 sec. for others (Clotting Method)
	Maximum detection time can be set 600 sec. for each parameter
STAT Sample	1 dedicated position. The routine analysis can be interrupted for preferential processing of a specified sample contained in a sample collection tube on a specific STAT sample rack.
Light Source	LED, 660 nm The light-emitting diode for photodetection is ON only during analysis.

Feature	Description
Positions	1 rack holding 10 sample tubes
	4 clotting channels (660 nm)
	6 sample incubation wells
	60 Reaction tube (30 tube rack x 2)
	10 reagents position with 4 Reagent Cooling Positions (15°C±2°C)
	3 Buffer position
Required sample volume 1)	PT 50 μL
volume ''	APTT 50 μL
	Fbg 10 μL
	TT 50 μL
	Extrinsic & Intrinsic factors 5 µl
	Protein C coagulometric 5 μL
	Batroxobin Time 50 µL
	Lupus Anticoagulant 100 μL
Quality Control	X control and L-J control
	180 data points x 6 files; 14 parameters
Standard curve	6 Points, 14 parameters
Throughput 2)	
Maximum (PT only)	60 tests/hour
PT/PTT/Fbg	Approx. 40 tests/hour
Analysis Range 3)	
Fibrinogen Concentration	With an applicable reagent, the range between 50 mg/dL and 1000 mg/dL can be analyzed However, over 500 mg/dL is analyzed via dilution in high concentration mode (+Fbg: 1:20 dilution). Under 90 mg/dL is analyzed via dilution in low concentration mode (-Fbg: 1:5 dilution).

¹⁾: The required sample volume might depend on the type of reagent used for the estimation; here Siemens reagents were used.

²⁾: The throughput might depend on the type of reagent used for the estimation; here Siemens reagents were used.

³⁾: The analysis range might depend on the type of reagent used for the estimation; here Siemens reagents were used.