

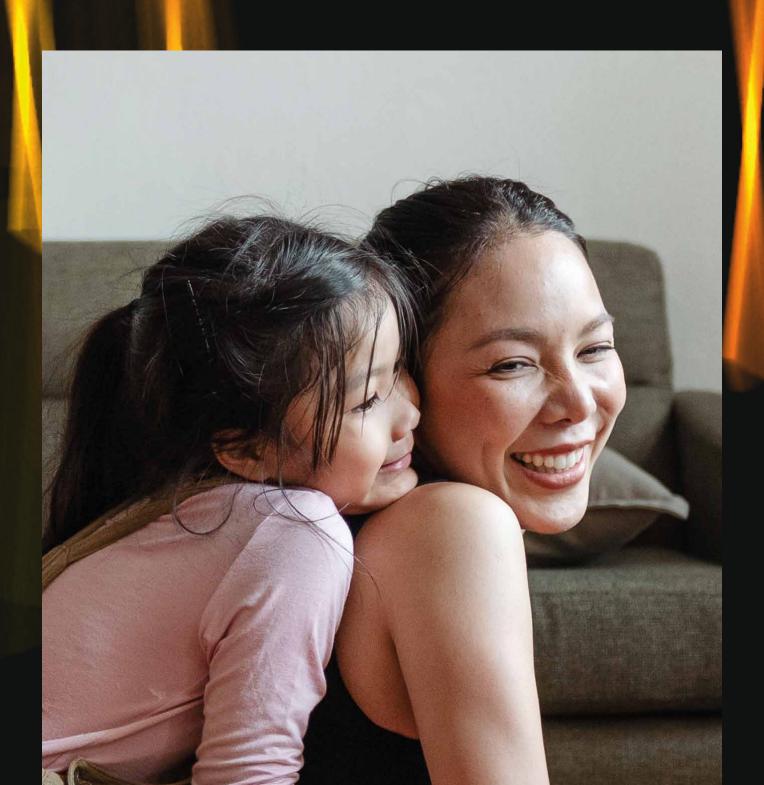
BioSystems

Automation and Flexibility

Clinical Chemistry Analyser

Clinical analysis

human - centred biotech













Technological innovation

The highest flexibility and compactness

A single rotor for samples and reagents allows maximum compactness without losing flexibility. The rotor layout is completely free to better fit the users' needs.

Highest performance, minimal maintenance

The optical bench is based on our patented LED technology, which requires the minimum maintenance and allows the longest lifespan. The LEDs performance also enables the throughput of 200 t/h.







Make your work easier

Automation saves time and avoids manual procedures. The new automatic hemolysis function guarantees more accurate results.

Reliable validated system

Reagents are specifically designed and validated to ensure robust and reliable results. The reagent barcodes and the volume detection system allow a completely control of the reagent used at any time.

Technical specifications

Highlights

- Throughput of 200 t/h (clinical chemistry and turbidimetry reagents).
- Maximum throughput of 300 t/h with ISE Module: Na⁺, K⁺, Cl⁻ and Li⁺ (optional).
- High reagent and sample capacity (88 positons) with barcode reader, the highest grade in flexibility.
- Automatic hemolysis on whole blood samples.
- Reaction rotor washing station and continuous evaluation of cuvette status.
- Dynamic baseline with SMART LED Technology.
- Photometric range up to 3.5 Abs and optical resolution of 0.0001 Abs.
- Full-capacity to integrate into LIS (ASTM, HL7).

Ordering Information

Item	Code	Quantity
BA200 analyser/BA200 analyser with ISE module	83200/83200ISE	=
Wheeled table + computer support	AC17346	1 unit
Wheeled table	AC17345	1 unit
Reaction rotor	AC11485	10 units
Concentrated washing solution	AC16434	500 mL
Acid washing solution (WS1)	AC17201	4 x 20 mL
Alkaline washing solution (WS2)	AC17205	4 x 15 mL
Sample wells (pediatric cups)	AC10770	1000 units
Reagent bottles 60 mL + caps	AC16362	10 units
Reagent bottles 20 mL + caps	AC16363	10 units
Amber reagent bottles 60 mL + caps	AC16364	10 units
Amber reagent bottles 20 mL + caps	AC16365	10 units
ISE Module*		
Sodium Electrode (Na ⁺)	5201	1 unit
Potassium Electrode (K*)	5202	1 unit
Chloride Electrode (Cl ⁻)	5207	1 unit
Reference Electrode	5204	1 unit
Lithium Electrode (Li*)	5205	1 unit
Spacer Electrode	5206	1 unit
Reagent pack Na ⁺ /K ⁺ /Cl ⁻ /Li ⁺	5420	1 unit
Urine diluent 125 mL	5412	125 mL
Urine diluent 500 mL	5408	500 mL
ISE Cleaning solution Kit	5421	1 unit
Bi-level quality control kit (Na+/K+/Cl-/Li+)	2814	1 unit
Tri-level quality control kit (Na*/K*/Cl-/Li*)	2815	1 unit

^{*}If you want information about the ISE module consumables, contact us at customersupport⊠biosystems.es.

Throughputs		Optical system	
Throughput without ISE modul	lo 200+/h	Light Source	LED
Throughput with ISE module	300 t/h	Wavelengths	340 - 405 - 505 - 535 - 560 - 600
ISE module (optional)		Photometric range	635 - 670 nm -0.2 to 3.5 A
Sample type	Serum, plasma or urine	Internal resolution	0.0001 A
Electrode type	Na ⁺ , K ⁺ , Cl ⁻ , Li ⁺ (optional)	Measurement accuracy	CV <1% at 0.1 A
Sample volume	Serum: 100 µL / Urine: 200 µL	(for 340 nm, 405 nm	CV <0.1% at 2 A
Sample handling		and 505 nm)	0 V 1011/10 dat 2 / V
		Dimensions	
Sample rotor capacity	Up to 88 flexible positions	Size (w., d., h.)	1070 x 690 x 680 mm
Barcode reader	Yes	Weight	166 Kg
Size of primary tubes	Diameter 12 mm to 16 mm (max. height 100 mm)	Electrical and	
Sample well	13.5 mm diameter	environmental requirements	
Sample types	Serum, plasma, urine, whole blood,	Main voltage	115 to 230 V
	cerebrospinal liquid, semen and biological fluids	Main frequency	50 or 60 Hz
Dispensing mode	Ceramic piston pump with	Electric power	500 VA max.
	low maintenance	Room temperature	From 10 to 35 °C
Pipetting volume	From 2 µL to 40 µL		From 10 to 30 °C (with ISE module
Pipetting resolution	0.1 µL	Relative humidity	<85% without condensation
Predilution ratio	From 1:1 to 1:200	Altitude	<2500 m
Clot detector	Yes	Fluidic requirements	
Tip wash	Inside and outside	Water inlet	External tank or mains water supp
Reagent handling		Water type	Purified type II
Volume of reagent bottles	20 mL, 60 mL	Water consumption	<9 L/h
Cooled reagent	Yes	Bottle of high	2.4 L
Temperature range of refrigerator	From 6 to 11 °C (measured at 21 °C)	concentration waste Bottle of washing solution	2.4 L
Barcode reader	Yes	Minimum computer	
Reagent volume R1	90 μL to 300 μL	requirements	
Reagent volume R2	10 μL to 100 μL	Operating system	Windows® 10 64 bit (x64)
Dispensing mode	Ceramic piston pump with low maintenance	CPU	Equivalent to Intel Core i3 @3.10 GHz or higher
Pipetting resolution	0.1 μL	RAM	4 GB
Γip wash	Inside and outside	Hard Disk	40 GB or higher
Reactions rotor		Monitor minimum resolution	1024x768
Reaction volume range	From 180 µL to 440 µL	Connector of serial channel	USB
Number of wells	120	Laboratory Information	
Well material	UV methacrylate	Systems (LIS)	
Type of incubation	5 min. (fixed)	Connectivity to LIS	HL7 and ASTM protocols
Temperature	37.0 °C	Regulations and Standards	
Temperature accuracy	± 0.2 °C	Compliance	
Number of mixers	1	IVD Regulation (EU)	2017/746
Cuvette washing system	8 steps washing station		

Intended use: automated analyser for the measurement of analyte concentrations in human clinical specimens using *in vitro* diagnostics reagents. For *in vitro* professional use in the clinical laboratory only.



690 mm



