

Beckman AU680 Chemistry Analyzer



OVERVIEW

The newest member of the high-performance Beckman Coulter laboratory analyzer series is the AU680 Chemistry System. The benefits of the AU680 Chemistry System can be divided into three main categories – improved user convenience including automation options; extended analytical reach and reduced operating costs. Flexibility is assured with a menu capacity of up to 63 different assays on board. Triple reagent dispensing enables the AU680 Chemistry System to perform assays requiring up to three separate reagents. Finally, the AU680 Chemistry System offers a speed of up to 1200 tests per hour and an on-board capacity of up to 63 different tests in parallel.

FEATURES

- Handling of 3-shot reagents
- Minimized reagent volumes
- Eliminates need for multiple calibrators
- Applies to C3, C4, Transferrin and ASO
- Positive sample identification to eliminate any sample mix ups
- Beckman Coulter flexible racks to handle all commonly used tube sizes in parallel
- Barcoded racks to define different sample materials or other sample specifics
- 150 samples on board at any time for long walk away
- Reflex testing
- Priority re-run lane
- Real workstation consolidation with up to 60 different analytes in parallel
- Ready to use liquid stable reagents
- Automatic bottle switch capabilities
- Advanced calibration
- Liquid detection and remaining test number calculation
- High tech wash station to ensure a valid diagnostics
- Two different detergents to prevent any carry over
- Four fold water cleaning followed by a separate drying step to gain optimum system performance
- High precision mixer station to ensure excellent reaction conditions
- Standardized mixing procedures across the whole range of analyzers
- Different mixer positions for individual reaction steps
- Non disposable quartz cuvettes
- Software driven carry over elimination
- Total reaction volume as small as 120 μ l
- Environmental friendly
- High quality ISE for Na, K and Cl
- 6 months shelf life; 18 months shelf life for reference electrodes
- 600 tests/hour (if ISE mode only)
- Same technology across the whole range of analyzers
- Sample volume as small as 1.6 μ l
- Clot detection
- Crash prevention
- Sampling frequency of 4.5 seconds
- Dedicated STAT rotor with 22 positions and integrated barcode reader
- Full STAT capabilities during routine operation
- Refrigerated area for calibrators and controls
- Combined routine and emergency work area
- Tact frequency 4.5 seconds
- Reagent volume as small as 15 μ l
- Liquid detection with Calculation of remaining tests/vial

Contact Us for More Information:

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Beckman AU680 Specifications

Analytical system	Fully automated, random-access chemistry system with STAT capability	bichromatic measurements possible
Analytical principle	Spectrophotometry and potentiometry	Wavelength 13 different wavelengths between 340 – 800 nm
Analytical types	Endpoint, rate, fixed point and indirect ISE	Cuvette cleaning Comprehensive cleaning with detergents
Analytical methods	Colorimetry, turbidimetry, latex agglutination, homogeneous EIA, indirect ISE	Calibration Autocalibration, cooled calibrator positions; master calibration established by two-dimensional bar code of the reagent bottle (>3-point calibration)
Simultaneously processed analytes	60 photometric tests + 3 ISE	Quality control Auto QC, cooled QC positions
Throughput	800 photometric tests/hour; up to 1,200 with ISE	Test requisition Individual and profile test requisition via on line, mouse, functions keys or touch screen
Sample types	Serum, urine, whole blood (HbA1c), other 1, other 2	Safety Clot detection and crash prevention for sample and reagent dispenser
Sample feeder	Racks with 10 samples each (bar codes on primary tubes and on racks); capacity of 150 samples; continuous loading	Online Full uni- and bidirectional communication possible
Sample tubes	In primary and secondary tubes; diameter between 11.5 and 16.5 mm; height between 55 and 102 mm	Software Windows XP®
STAT samples	Up to 22 positions for STAT samples, bar-coded primary tubes	Data Storage Sample number 100,000 samples. Reaction Data 200,000 tests
Sample volume	1–25 µL in 0.1 µL increments (1–25 µL for repeats)	Dimensions (W x H x D) mm ANL 1,950 x 1,280 x 1,000
Reagent supply	60 positions for R1, 48 positions for R2; (refrigerated 4–12 °C), handling of 3-shot reagents	Power supply 200 V; 208 V; 220 V; 230 V; 240 V; 50 Hz; 60 Hz/3.8 KVA
Reagent volume	R1: 15–250 µL; R2: 15–250 µL; (in 1 µL increments)	
Total reaction volume	120–425 µL	
Reaction cuvette	Quartz cuvettes	
Reaction time	Up to 8 minutes, 40 seconds	
Reaction temperature	37 °C	
Mixing method	With rotating paddles after dispensing sample and reagent	
Photometry system	Direct assay through the reaction cuvette (0 – 3.0 OD) mono and	

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