

FULLY AUTOMATED BLOOD GROUP ANALYZER DX800

- ✓ Supports breakpoint operation, no need for repeated submissions
- ✓ Puncher supporting single-, triple- and six-hole punching
- ✓ Sample loading and card gripping at the same time
- ✓ Supports serial dilution and maternal self-efficacy experiments
- ✓ Supports Gel and Microbead cards



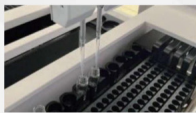
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Module introduction

01 Scanner  Synchronous scanning: samples are scanned upon loading; reagent cards are scanned simultaneously upon retrieval.	02 Sample adding  Independent operation for high efficiency. Liquid level sensing and clot detection ensure precise sampling.	03 Mechanical arm  Real-time card detection verifies slot occupancy to safeguard experimental continuity.	04 Card storage  Store unused reagent cards as required; automatic card type recognition facilitates seamless replenishment.	05 Centrifuge  Adaptive centrifugation for superior results. Automatic balancing ensures high-efficiency centrifugation.	06 Incubator  Incubation module with temperature deviation <0.5°C. Incubation time calculated separately for each batch.
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Product name Fully Automated Blood Group Analyzer	
Project Usage	ABO/Rh(D) forward blood grouping card, forward and reverse blood grouping card; Rh antigen (C, c, D, E, e) blood grouping card, cross-matching, Irregular antibody screening test, direct antiglobulin test (DAT) etc.
Supports	Glass Microbead cards and Gel cards
Requirements	Card's volume should be less than 55×65×9mm, temperature should be 2-25°C
Sample adding module	1 add sample arm, 2 sampling channels, disposable tip head, liquid surface detection function, needle loss detection, clot detection, bubble detection function
Adding sample repeatability and accuracy	Sample volume (uL): 100 Repeatability CV (%): ≤0.75% Accuracy (%): ≤±1%
Mechanical arm	Robotic arm used to transfer gel cards, with no card loss during power failure
Card storage	Test card storage warehouse can fit ≥120 cards
Sample rack	Loading cycle ≥144 samples directly from original containers; supports 9–12 mm test tubes
Scanner	Automatic scanning of tube racks, samples, gel cards, and reagent bottles; supports multiple barcode types with manual entry option.
Centrifuge	≥ 2 centrifuges, speed range: 0–3000 rpm
Incubator	≥ 24 incubation positions, temperature range: room temperature to 60°C
Pending position	≥18 independent pending card slots; reagent cards flagged as abnormal are retained for manual review and interpretation.
Reagent rack	12 reagent mixing positions, eccentric shaking for efficient cell homogenization
Card Puncher	Slider-assisted mechanism enables automatic lancing with selectable 1/2/3/6 holes
Serial dilution	Capable of performing sample serial dilution operations
Power-off renewal function	After a power cut and restart, the experiment resumes without resubmission
Interpretation module	CCD digital imaging preserves raw image files with exportable backup; software provides automatic recognition with quantitative and visual results, full traceability, and a dedicated review area for questionable outcomes.
Supply voltage	220V, 50 Hz
APP	Full English interface, supporting two-way integration with hospital management systems