

# AS-280 Auto Chemistry Analyzer



BIOELAB

## Technical Specifications

### General Information

Machine type	Random Access
Test speed	Constant 200 Tests/Hour (Mono or Double Reagent)
Test principle	Colorimetric Method, Turbidimetry
Test method	1 Point End, 2 Point End, Fixed-Time, Kinetics
Calibration type	Linear & Nonlinear

### Sample Unit

Sample tray	40 Sample Positions
Sample tube	Micro Cup & Test Tube & Blood Collection Tube (12-13 mm x 25 – 100mm)
Sample volume	2-30µl, step by 0.1µl
Sample probe	Liquid surface detection, Timely tracking for liquid volume, Collision Avoidance
Sample barcode	Sample barcode reader

### Reagent Unit

Reagent tray	40 Reagent Position, Non-stop Cooling System with Peltier pad inside, 24 hours 2°C - 14 °C
Reagent volume	20-300µl, Step by 1µl
Reagent needle	Liquid surface detection, Timely tracking for liquid volume, Collision Avoidance
Reagent barcode	Reagent barcode reader

### Reaction Unit

Reaction tray	44 Reaction cuvettes, New amorphous optical plastics reaction cups, perfect transmittance
Reaction volume	150-330µl
Reaction time	10 Minutes
Temperature	Peltier pad incubation system, Reaction temperature 37°C ± 0.1°C

### Mixer

Mixer	Paddle-Type Mixing, Effective reducing of Carry-Over
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### Optical System

Light source	Halogen Lamp
Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm
Absorbance range	0-4.0 Abs
Resolution	0.0001 Abs

### Operating System

Operation system	Window XP, Window 7, Window 8, Window 10
Data processing	Automatic calibration, Test combination, Effective time management of reagent, Serum index, Whole process detection, Linear expansion of enzyme, Blank deduction, Dirty cuvette memory, Cross infection prevention, Patient information memory and association input, Automatic report audit, Data fuzzy query, Report statistics and printing, Reference range grading, Alarm information classification, User operation privilege classification management
Report printing	6 Formats optional, Support custom pattern
Interface	TCP/IP Network Interface

### Working Conditions

Power supply	AC 110/220V ± 10%, 50/60 Hz, 650W
Water consumption	8 L/Hour (Maximum)
Dimension (LxWxH)	745mm x 540mm x 530mm
Weight	45.4 Kg



## AS-280 Auto Chemistry Analyzer

200 Tests/Hour, Double Reagent



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# AS-280

## Auto Chemistry Analyzer

- Constant Speed 200 Tests/Hour
- Independent Probe
- Independent Stirrer
- Reagent tray contains 40 reagent positions
- Sample tray contains 40 sample positions
- The reaction tray contains 44 UV Plastic reaction cuvettes
- 4-Stage x 2 times automatic washing systems



### Multifunctional Precision Sample Probe

- External & internal mirror polish
- External & internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor, timely feedback or reagent & sample residuals
- Collision protection, automatic probe depth adjusting



### Excellent Mixer Design

- Teflon coating mixer. No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure



### High Precision Ceramic Syringe

- Permanent ceramic piston
- Accurate dispensing as low as 0.1 μl



### Reagent Tray and Sample Tray

- 40 Reagent positions
- 40 Sample positions
- Non-Stop Cooling System with Peltier pad inside, 24 hours 2°C - 14 °C
- Barcode Reader



### Reaction Tray

- 44 reaction cuvettes
- Reaction as low as 150 μl
- Stable & Accurate temperature 37°C ± 0.1°C for reaction



### Advance Operating System

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution (decrease, increase, normal)
- Reaction result automatic checking and warning
- Calibration result automatic checking, Warning alarm log
- Linear & Nonlinear Calibration, Multi-point calibration up to 8 points
- Quality control apply to Westgard Rule (L-J Chart)

