AS–280

Auto Chemistry Analyzer

Technical specifications

General information

Machine type	Random access, open reagent & locked reagent (optional)
Test speed	Constant 200 tests/hour (Mono reagent 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 can be used. (Φ 12 -13)mm * (25 – 100)mm
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 (optional)

Reagent unit

Reagent tray	80 reagent positions (40 for R1 & 40 for R2), Non-stop cooling system with peltier pad inside, 24 hours 2℃-14℃, open system, could accept any reagent.
Reagent volume	20-300μl, step by 1μl
Reagent needle	Liquid surface detection, timely tracking for liquid volume. Collision avoidance.
Regent barcode	Regent barcode reader (optional)

Reaction unit

Reaction tray	44 reaction cuvettes, new amorphous optical plastics reaction cups, perfect transmittance.
Reaction volume	150μl-330μl
Reaction time	10 minutes
Temperature	Peltier pad incubation system, reaction temperature (37℃ ± 0.1 ℃)

Mixing system

Mixer	paddle-type mixing, effective reducing of carry-over

Optical system

Light source	Halogen lamp
Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm(4 more options)
Absorbance range	0-4.0 Abs
Resolution	0.0001 Abs

Operating system

Operation system	Windows XP, Windows 7, Windows 8, Windows 10
Data processing	Automatic calibration, test combination, effective time management of reagents, 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, surpport 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	745mm * 540mm * 530mm(L*W*H)
Weight	45.4 Kg

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AS–280

Auto Chemistry Analyzer

200 Tests/Hour, Double Reagent

I.M.D Laboratoires

BIOELAB

AS-280

Auto Chemistry Analyzer

- Constant speed 200 tests/ hour
- Independent probe
- Independent stirrer
- Reagent tray contains 80 reagent positions
- Sample tray contains 40 sample positions
- The reaction tray contains 44 UV Plastic reaction cuvettes
- 4-stage, 2 times automatic washing system



Multifunctional precision sampling probe

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



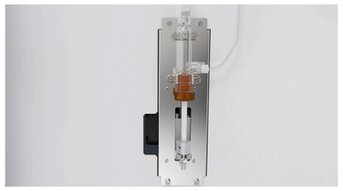
Excellent mixer design

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



High precision ceramic syringe

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



Reagent tray & Sample tray

- 80 reagent positions， 40 sample positions
- Non-stop cooling system with peltier pad inside, 24 hours 2℃-14℃
- Bar code reader(optional)



Reaction tray

- 44 reaction cuvettes
- Reaction volume as low as 150µl
- Stable & accurate temperature (37±0.1℃） for reaction



Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution(decrease, increase, normal)
- Reaction result automatic checking and warning, calibaration result automatic checking, warning alarm log
- Linear & nonlinear calibration, Multi-points calibration up to 8 points
- Quality control apply to westgard, L-T plot, cumulative

