ES-200

Fully Automatic 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 $2^{\circ}-14^{\circ}$,

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°C ± 0.1 °C)

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 \pm 10%, 50/60 Hz, 650W

Water consumption 8L/hour (maximum)

Dimension 780mm * 565mm * 1120mm(L*W*H)

Weight 140kg





ES-200

Fully Automatic Chemistry Analyzer

200 Tests/Hour, Double Reagent

ES-200

Fully Automatic Chemistry Analyzer

- Constant 200 test / hour with double reagent
- 80 reagent positions
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- New amorphous optical plastics reaction cups, perfect transmittance.
- Maintenance free semiconductor solid state refrigeration
- Friendly surface and easy to operation



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 procedure



High precision ceramic syringe

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

Reagent & sample tray

- 80 reagent positions (40 for R1, 40 for R2)
- 40 sample positions, micro cup & test tube can be used
- 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 150 μl
- 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, calibration 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



