



# ES-9050

## Automatic Biochemistry Analyzer



LABORATORY



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# ES-9050

## Automatic Biochemistry Analyzer



**Cod. ES-9050**

### *Multi-function Sample system*

- 3 stand-alone probes, 1 sample probe. 2 reagent probes. Minimize the cross-contamination.
- Automatic liquid level detection: The probe detects the liquid level automatically ensures the probe enter into liquid at perfect depth
- Stand- alone probes function: Collision protection function, self resetting.
- Clot detection and high pressure rinsing function to clean clot
- Alarm function when sample and reagent volume is not enough
- Acid and Alkaline Wash position

### *Colorimetry system*

- Constant temperature circulating water system, automatically changing water and automatically adding
- High quality cuvette, with excellent UV penetrability , durable and economic
- Low reagent consumption to reduce cost
- Temperature control technology ensures the temperature is 37°C , the variation is  $\pm 0,1^{\circ}\text{C}$
- Rigid Plastic reaction cuvette , with good penetrating of Ultraviolet, resistance against acid and alkali and long life span



### Reagent & Cooling system

- Double tray with 90 reagent positions, single, double , four reagent optional.
- Reagent bottle: 20ml, 50ml, 70ml
- Reagent cooling system : 2-10°C .
- Semiconductor multistage technology



### Mixing system

- Stand-alone Mixer, highly polishing Mixing rod
- Three mixing speeds are optional, avoid the bubble



### Washing system

- Distilled water , Acid and Alkaline Washing
- 8-step auto washing, whole procedure monitoring
- Special washing for probe and cuvettes which are easy to be contaminated with 1-3 detergents



### Sample tray

- 115 sample position includ routine sample position, calibration position , QC position
- Primary tubes, test tubes and various sample cups can be used
- Serum , Urine and Cerebrospinal fluid are available
- Emergency sample insert function



### Operating Software

- Multi-media operating software , easy to understand and operate
- Real- time online help system
- Multi kinds of automatic monitoring function to ensure the analysis procedure scientific and intelligent
- Calibration and QC function
- Report printing supports various formats
- Remote control function



## Technical Features

### System function

Type	Fully automatic , random access
Throughput	400 tests/ hour, 800 test with ISE
Assay tapes	End point, Kinetics , fixed time , immunoturbidimetry, Monochromatic, Bi-chromatic & Multi-standard Analysis Linearity & Nonlinearity Calibration, Single & Dual Reagents can be used
Test range	Clinical chemistry , Spacific protein, ISE , Drug abuse, Urine, Cerebrospinal fluid ,etc...

### Sample system

Sample tray	115 sample position
Sample Volume	1,5 to 35uL (in steps of 0,1 uL)
Sample probe	clot detection , liquid level detection
Dilution function	Yes

### Reagent system

Reagent tray	90 reagent positions
Reagent volume	15uL – 300uL
Barcode reader	optional

### Reaction system

Reaction tray	120 cuvette light pass length 6mm
Reaction liquid volume	150uL -300uL
Reaction temperature	37°C ± 0,1°C

### Optical system

Light source	Halogen lamp 6V/10W, life span ≥ 3000 hours
Grating Measuring wavelength	340 to 800nm, 12 wavelengths invariable
Detector	photodiode array
Spectrophotometry	Rear spectrophotometry of holographic concave flat field grating
Control	Calibration and Quality Control
Assay tapes	End point, Kinetics , fixed time , immunoturbidimetry, Monochromatic , Bi-chromatic & Multi-standard Analysis Linearity & Nonlinearity Calibration Single & Dual Reagents can be used
Calibration Mode	Linear (one-point , two-point and multi-point), Logit-log4p, logit-log5p, Spine, Exponential, Polynomial, Parabola
Calibration Period	setting as required
QC Rule	Westgard Multi-rule, Cumulative sum check and Twin plot
QC mode	Intra day & Inter day

### Working condition

System interface	Network port
Power supply	220V AC , 50/60 Hz
Power consumption	≤ 1000VA
Environmental temperature	15-30°C
Humidity	≤85%
Dimension	1146x760x1095 (LxWxH)
Weight	500kg



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