# ESBK-I1100

## Automatic Chemilumescence Immunoassay System

LABORATORY

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## Technical Advantages

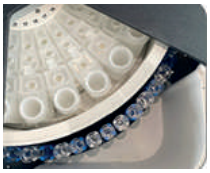
### Sample Probe
Sample integrity control level, clot and bubble detection;
Needle tip cone-angle design to reduce liquid hanging:
Quantity tracking, intelligent collision avoidance,
Negative pressure washing, cleaning
more thoroughly.

### RV Loading Machine
Reaction vessels can be added by pouring,
without manual arrangement

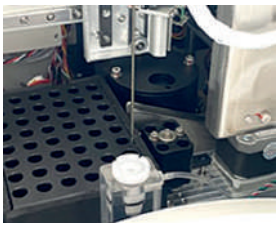
### Washing and mixing module
Incubation, cleaning and testing one-machine design;
Fully enclosed independent incubation system
with 58 incubation positions;
12 independent cleaning positions;
Triple magnetic separation cleaning technology is adopted;
Original photon counting dark chamber.

### Reagent tray
Forced air cooling, maintenance-free;
Up to 25 items can be tested at the same time, can be replaced at any time;
Remaining liquid detection, real-time alarm;
Support scanning bar code loading.

### Sample Tray
60 sample positions;
Support emergency insertion;
Support blood collection tube, sample vessel loading.



### Operating System
Humanized design software function;
Clear warning of consumables status, adding in advance is more worry-free;
The detection process is updated in real time, easy to grasp the reporting time;
Fault warning, remote assistance, and active maintenance are more intimate



## Instrument performance

### Excellent performance
Tubular enzymatic chemiluminescence
The max speed of a single machine is 180T/h
Carrying contamination rate< 10ppm
High precision: intra-batch precision ≤5%

### Compact and convenient
0.68 square meters, highly integrated and simplified patented design;
Support LIS bidirectional communication, built-in sample bar code scanning.

### Original system design
Automatic intelligent control technology can achieve hierarchical alarm:
Wizard visual interface, one key daily maintenance operation.

## Technical Parameters:

| | |
|---|---|
| Throughput | 180T/H |
| Principle | Magnetic particle enzymatic chemiluminescence |
| Modes of Operation | Random, Batch and STAT |
| Separation Method | Magnetic separation technology |
| Sample Positions | 60 (Each position could be used as an emergency position) |
| Reagent Positions | 25 pcs (2-8°C refrigeration) |
| Incubation Positions | 58 |
| Time to 1st Result | 18 Minutes |
| Sample Volume | 10-200μl |
| Detection Precision | CV≤5% |
| Carry-over Rate | $\leq 10^{-5}$ |
| Correlation Coefficient | r≥0.99 |
| Calibration Stability | 28 Days |
| Calibration Type | 6/7-point calibration |
| Software System | Windows 7/8/10, 32 or 64 bit, Bi-direction, support HL7 protocol; Intuitive User Interface, Intelligent Data Management |
| Interface | TCP/IP Network interface |
| Other Function | Liquid level detection; Anti-collision function; Sample barcode scanning; Intelligent alarm prompt |
| Power Supply | AC220V 50/60Hz (Standard); AC110V 60Hz (Optional) |
| External Size (W*D*H) | 768*771*568mm |
| Net Weight | 90kg |
| Package Size (W*D*H) | 940*840*1105mm |
| Gross Weight | 150Kg |

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