



CL-1000i

Chemiluminescence Immunoassay System

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Simple yet Rol



Enhanced Reaction System

4-phase magnetic separation with precisely controlled temperature
Consistent performance reliability with enhanced PMT detection system
Non-touch vortexer mixing for reaction solution without any contamination



Sample & Reagent Probe

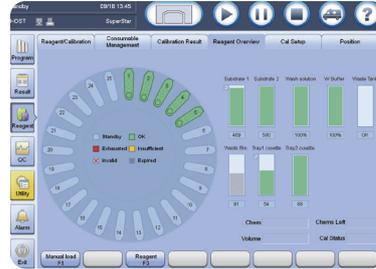
Precisely controlled syringe motors offer high precision aspiration
Intelligent liquid level detection, clot detection, vertical and horizontal collision protection
Efficient interior & exterior probe wash with high pressure wash buffer
Programmable enhanced probe wash with detergent



Sample Handling

Samples loading and offloading continuously by sample racks
Unified sample racks with detachable adaptor
Rack status real-time indicating on lane numbers
STATs prioritized fast

oust



Intuitive Software Interface

Unified software interface, significantly reduces training effort
Smooth interchange by intuitive software navigation
Easy access to touch screen monitor with swing arm (optional)



Consumables Management

Random access for cuvette loading without pause or stop
88*2 cuvettes in one batch, 200 cuvettes per waste bag
Cuvettes & waste bag status real-time indicating



Reagent & Substrate Handling

Easy for reagent & substrate handling, liquid reagents ready-to-use
2°C~8°C non-stop refrigerated reagent carousel featured 25 positions
Same reagent pack size with CL-2000i (50 tests/100 tests per pack)
Reagents stable on board for up to 28 days



Test Menu

Thyroid

FT3
FT4
T3
T4
TSH
Anti-TG
Anti-TPO
Thyroglobulin (TG)

Fertility

Total β -HCG
FSH
LH
PRL
E2
E3
TESTO
PROG
DHEA-S

Tumor Marker

CEA
AFP
CA125
CA15-3
CA19-9
FPSA
TPSA
FERR
NSE*
CYFRA 21-1*
CA72-4*

Infectious Disease

HBsAg*
Anti-HBs*
HBeAg*
Anti-HBe*
Anti-HBc*
HIV Ag/Ab Combo*
Anti-HCV*
Anti-TPPA (syphilis)*

Cardiac Marker

Myoglobin
Troponin I
BNP
CK-MB(mass)

Diabetes

Insulin
C-peptide

Bone Marker

PTH
Calcitonin
Vitamin D Total

Anemia

Folic Acid*
Vitamin B12*

Others

ACTH
Cortisol

*CE not Ready

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Technical Specifications

General Information

| | |
|-----------------------|--|
| Throughput | Up to 120 tests/hour |
| Measurement Principle | Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labeled reagents and AMPPD substrate |

Sample Assembly

| | |
|-----------------|---|
| Sample Feeder | Continuous sample loading and offloading by sample racks |
| Sample Rack | 10 positions per rack, same as BS-800/BS-2000/CL-2000i series |
| Sample Capacity | Up to 60 samples in one batch |
| Sample Probe | Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection |
| Sample Volume | 10 μ l~200 μ l, with increment of 1 μ l |
| Sample Dilution | Automatic dilution with 1:2 ~ 1:40 |

Reagent Assembly

| | |
|------------------|---|
| Reagent Disk | 25 reagent positions, continuous loading, real-time mixing for magnetic particles |
| Cooling System | 2 $^{\circ}$ C~8 $^{\circ}$ C |
| Reagent Pack | 50 tests per pack, 100 tests per pack |
| Reagent Scanning | Built-in/external bar code reader scanning |
| Reagent Probe | Steel probe, liquid level detection, bubble detection, horizontal and vertical collision protection |
| Reagent Volume | 20 μ l~200 μ l, with increment of 1 μ l |

Substrate System

| | |
|-------------------|--|
| Substrate Bottle | 250/500 tests per bottle, bottom piercing |
| Substrate Loading | Capable of continuous loading during testing |
| Substrate Heating | Constant heating |
| Aspiration Volume | 200 μ l |

Magnetic Separation Unit

| | |
|---------------------|--|
| Separation Assembly | 4-phase magnetic separation |
| Temperature | Accuracy: 37 \pm 0.3 $^{\circ}$ C, fluctuation: \pm 0.2 $^{\circ}$ C |

Measurement and Reaction System

| | |
|-------------------|--|
| Detection Mode | Photon counting |
| Signal Detector | Photomultiplier (PMT) photon counter |
| PMT Calibration | LED reference module |
| Reaction Carousel | 75 positions |
| Temperature | Accuracy: 37 \pm 0.3 $^{\circ}$ C, fluctuation: \pm 0.2 $^{\circ}$ C |
| Mixing Unit | Non-touch vortexer mixing |

Cuvette Loading and Waste Collection

| | |
|------------------|---|
| Cuvette | Disposable plastic cuvette |
| Cuvette Loading | 88 cuvettes per tray, two trays can be loaded in one batch, continuous loading and offloading |
| Waste Collection | Waste container, 200 cuvettes per box |

Working Conditions

| | |
|-----------------------|--|
| Power Supply | 110V/115V~, 60Hz; 220V-240V~, 50Hz; 220V/230V~, 60Hz |
| Input Power | 2000VA |
| Operating Temperature | 15 $^{\circ}$ C~30 $^{\circ}$ C |
| Relative Humidity | 35%RH~80%RH, without condensation |
| Dimension | Main Unit: 1400mm*760mm*600mm (W*D*H) Weight: 250kg |
| Altitude Height | -400m~4000m |