CL-1000i
Chemiluminescence Immunoassay System

Simple yet Robust

CL-1000i
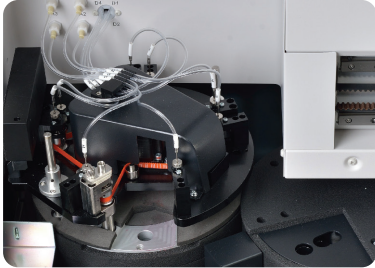Chemiluminescence Immunoassay System

Simple yet Ro

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
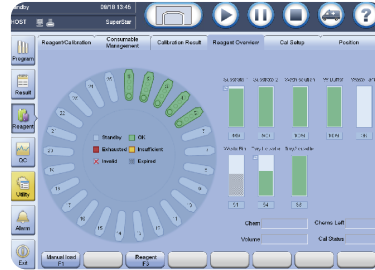
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Sample & Reagent Probe

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
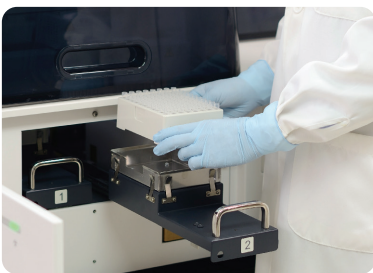Programmable enhanced probe wash with detergent

Sample Handling

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

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CL-1000i

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℃~8℃ 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 56 days

Test menu

Thyroid
FT3
FT4
T3
T4
TSH
Anti-Tg
Anti-TPO
Tg
rT3
TRAb

Infectious Disease
HIV Combo
HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HCV**
Anti-TP (Syphilis)
HAV IgM*

Fertility
Total β-HCG
FSH
LH
Prolactin
Estradiol
Estriol
TESTO
PROG
AMH
Free testosterone*
17-OH PROG*
SHBG*

Tumor marker
CEA
AFP
CA125
CA15-3
CA19-9
Free PSA
Total PSA
NSE
CYFRA 21-1
CA72-4
PG I
PG II
SCCA
HE4
ProGRP
CA50
CA242
PIVKA-II*
AFP-L3%*
Hp IgG*
G-17*

Bone Metabolic

(Bone)
Intact PTH
Calcitonin
Vitamin D total

Cardiac
CK-MB
Myoglobin
Troponin I
BNP
NT-proBNP*

Diabetes

DM
Insulin
C-peptide

Adrenal Function
DHEA-S
Cortisol
ACTH

Liver Fibrosis
Laminin
Hyaluronic Acid
PIIINP
Collagen IV

COVID-19
SARS-COV-2 IgG
SARS-COV-2 IgM
SARS-COV-2S-RBD IgG
SARS-COV-2
Neutralizing Antibody

ToRCH
Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1/2 IgG*
HSV-1/2 IgM*
HSV-1 IgG*
HSV-2 IgG*

Growth Hormone
GH*
IGF-1*

Anemia
Ferritin
Vitamin B12
Folate
RBC Folate

Hypertension

EH
Renin
Aldosterone

Inflammation
Procalcitonin
IL-6
sCD14-ST

DS' Screening

DS
PAPP-A*
Free β-HCG*

*: Under development
**: Non-CE

Technical Specifications

General Information

Throughput	Up to 180 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	10μl~200μl, with increment of 1μl
Sample Dilution	Automatic dilution with 1:2 ~ 1:80

Reagent Assembly

Reagent Disk	25 reagent positions, continuous loading, real-time mixing for magnetic particles
Cooling System	2℃~8℃
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	20μl~200μl, with increment of 1μl

Substrate System

Substrate Bottle	300/500 tests per bottle, bottom piercing
Substrate Loading	Capable of continuous loading during testing
Substrate Heating	Constant heating
Aspiration Volume	200μl

Magnetic Separation Unit

Separation Assembly	4-phase magnetic separation
Temperature	Accuracy: 37±0.3℃, fluctuation: ±0.2℃

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±0.3℃, fluctuation: ±0.2℃
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, 185 cuvettes per box

Working Conditions

Power Supply	110V/115V~, 60Hz; 220V-240V~, 50Hz; 220V/230V~, 60Hz
Input Power	2000VA
Operating Temperature	15℃~30℃
Relative Humidity	35%RH~80%RH, without condensation
Dimension	Main Unit: 1400mm*760mm*600mm (W*D*H) Weight: 225kg
Altitude Height	-400m~4000m

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