ESBK-1100
ESBK-1200

Automatic Chemiluminescence Immunoassay System

Introduction

The chemiluminescence immunoassay system uses magnetic particle separation technology, which uses magnetic particles as antibody carriers, which can be evenly distributed in the liquid phase reaction system, with faster reaction speed and higher efficiency. Using enzymatic chemiluminescence method, the light signal is more stable. A new generation of enzymatic substrates, with higher sensitivity and faster luminescence.

Compared with the international brands, the chemiluminescence immunoassay reagents have good consistency, the coincidence rate can reach more than 95%, and the detection precision can reach CV<2%

Description

Sample Tray:
Disc design, up to 60 samples loading capacity per batch
The position of sample, standard product and quality control positions can be edited
Support emergency function.

Reagent Tray:
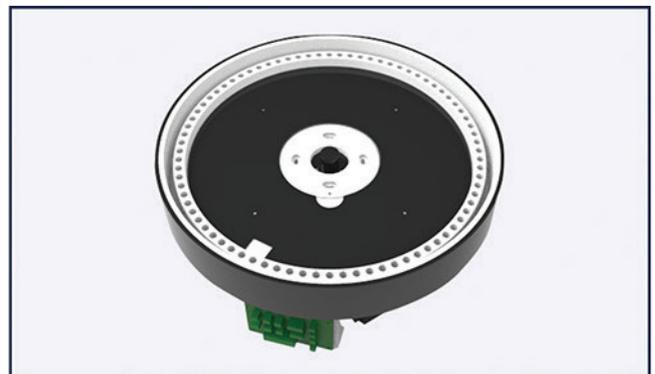Patented semiconductor refrigeration technology
Up to 30 reagent position on board with refrigeration at 2-8°C
Up to 30 items can be tested at the same time.
Washing and mixing module:
Three-level cleaning mode, higher cleaning efficiency;
Non-contact mixing to avoid cross-contamination.

Sample Probe:
Excellent rinsing system make carry-over ≤10-5
Liquid-level and blood coagulation detection system
Intelligent anti-collision function
Sampling volume: 15ul-100ul

Description

RV Loading Module:
Independent reaction vessel
Up to 1200 pcs per batch with continues loading
Automatically supply reaction vessel
Intelligently detect the amount of RV
Incubation plate:
80 incubation positions
Constant 37°C incubation
Instrument Software: Flexible sample test mode: STAT function, automatic dilution, reset function, continuous loading
Reagent management: the remaining amount, calibration validity, expiry date management
Consumables management: continuous monitoring and low-level warning
Result management: store search, print and statistics, automatic unit conversion function
LIS/HIS connection
Auto daily maintenance

Features

Model	ESBK-1100	ESBK-1200
Throughput	80T/H	120T/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	30 pcs (2-8℃ refrigeration)	
Incubation Positions	50	80
Time to 1st Result	18 Minutes	
Sample Volume	15-100ul	
Detection Precision	CV≤5%	
Carry-over Rate	≤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,Reagent radio frequency identification, Intelligent alarm prompt	
Power Supply	AC110/220V，50/60Hz	
External Size (W*D*H)	1120*735*513mm	1305*770*1150mm
Net Weight	130Kg	220Kg
Package Size (WD*H)	1303*873*854mm	1608*898*1534mm
Gross Weight	180kg	294kg

Reagent menu

Thyroid	Anemia
TSH	FERRITIN
TT4	VB12
TT3	FA
FT4	
FT3	Liver fibrosis
TgAb	CIV
TPOAb	LN
TG	HA
Anti-TSHR	PIIINP
CT	
SHBG	Hypertension
	ALD
Fertility	ACTH
β-HCG	Cortisol
E2	Renin
P	
T	Growth
PRL	GH
FSH	
LH	Bone Metabolism
DHEA-S	BGP
	25-OH-Vit-D
Tumor marker	iPTH
CA125	
CA15-3	Pepsinogen
CA199	PGII
AFP	
CEA	Kidney Function
t-PSA	β2-MG
f-PSA	
	Rheumatism
Diabetes	Anti-CCP
C-P	
INS	Pregnancy
	FE3
Cardiac marker	PAPP-A
cTnI	Free-β-HCG
CK-MB	Inflammation