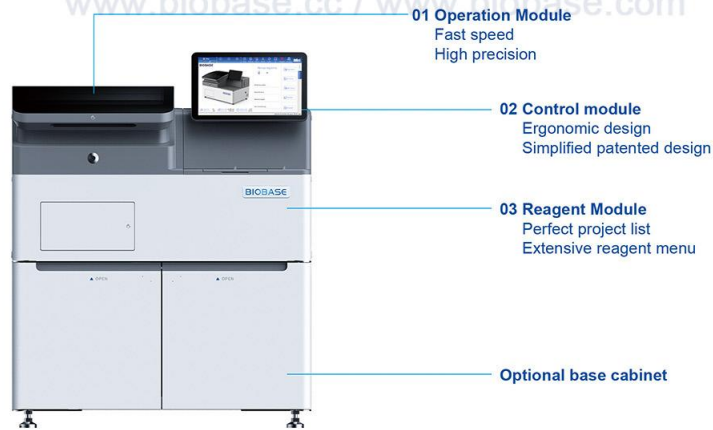


Automatic Chemiluminescence Immunoassay System BKI2200





Introduction:

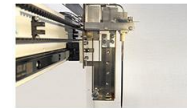
The chemiluminescence immunoassay system uses magnetic particle separation technology, which uses magnetic particles as antibody carriers, which can be evenly distributed in the liquid phase reaction system, with faster reaction speed and higher efficiency. Using enzymatic chemiluminescence method, the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



Advantage:

-  **Operation Module**
 Tubular enzymatic chemiluminescence
 The max speed of a single machine is 240T/h
 Carrying contamination rate <math>< 10^{-5}</math>
 High precision: intra-batch precision $\leq 8\%$
-  **Control Module**
 Ergonomic design increased operator comfort
 0.68 square meters, highly integrated and simplified patented design
 Convenient operation: support LIS two-way communication, scan the code to test
 Smooth human-computer interaction experience: the touch screen and the frame are integrated into the machine, and all consumables can be loaded online in real time

System Layout:



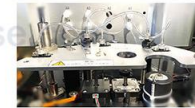
Sample Probe
 Sample integrity control: level, clot and bubble detection
 Needle tip cone-angle design to reduce liquid hanging
 Quantity tracking, intelligent collision avoidance
 Negative pressure needle washing, cleaning more thoroughly



RV Loading Module
 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 90 incubation positions
 30 independent cleaning positions
 Triple magnetic separation cleaning technology is adopted



Sample Tray

International universal test tube rack, 10 tubes/rack, 6 test tube racks can be placed
 Support emergency insertion
 Support blood collection tube, sample vessel loading







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



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 Software Module:

-  **Humanized software functions**
 Reagent loading and sample operation are convenient and intuitive
 Intuitive display of sample status in testing
 Support checking experiment results by sample or project
-  **Reagents and consumables status warning**
 Accurately record the use of reagents for each project
 Accurately record the remaining amount of consumables
 Timely alarm when the remaining consumables is insufficient
-  **Simple and intuitive quality control process**
 Convenient addition of quality control experiments
 Intuitive display of quality control results
 Support various forms of T-P chart and L-J chart
-  **Convenient and flexible maintenance functions**
 The maintenance program is comprehensive
 Individual maintenance work can be flexibly chosen
 Daily, monthly and yearly maintenance work is clearly distinguished

Technical Parameter:

Model	BK12200
Throughput	240T/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	90
Time to 1st Result	12min
Sample Volume	10-200µl
Detection Precision	CV≤8%
Carry-over Rate	≤10 ⁻⁵
Correlation Coefficient	r≥0.99
Calibration Stability	28 Days
Calibration Type	6/7-point calibration
Software System	Comes with a screen, Linux system 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	AC 100-240V, 50/60Hz
External Size (W*D*H)	1000*685*750
Net Weight	132kg
Package Size (W*D*H)	1338*838*954mm
Gross Weight	201kg

Reagent Product Menu:

* means upcoming item

Thyroid	TSH	Rheumatoid	Anti-ccp
	TT4		B2-MG
	TT3		CIV
	FT4		HA
	FT3		P III NP
	TgAb		LN
	TPOAb		FA
	TG		VB12
	Anti-TSHR		FERRITIN
	CT		GH
Fertility	β-HCG	Anemia	IGF- I *
	E2		INS
	P	C-P	
	T	PG I	
	PRL	PG II	
	FSH	PCT	
	LH	IL-6	
	DHEA-S	FE3	
	SHBG	Free β-HCG	
	AMH*	PAPP-A	
Hypertension	ALD	Inflammation	BGP
	ACTH		25-OH-Vit-D
	Cortisol		iPTH
	Renin	PINP*	
	A II *	Early screening	HBeAb*
	CA125		HBeAg*
	CA15-3		HBcAb*
	CA19-9		HBsAb*
	AFP		HBsAg*
	CEA		Anti-HBc IgM*
t-PSA	HIV Ag/Ab*		
f-PSA	Anti-TP*		
CA72-4	Anti-HCV*		
Tumor marker	SCC	Cardiac marker	
	CA242		
	CA50		
	NSE		
	CYFRA21-1		
	HE4		
	ProGRP		
	cTnI		
	NT-proBNP		
	CK-MB		
MYO			