

BIOBASE[®]



BIOBASE ELISA Processor

Automation
Precision
Modularization
Professionality
Intelligentization

Biobase Biodustry (Shandong) Co.,Ltd

BIOBASE 1000

Automated ELISA Processor

BIOBASE1000 Elisa Processors is fully automated two-plate ELISA processing system capable of adding sample,incubation,washing and data processing.

It is complete solution for your IVD ELISA assays. The system combines a high precision pipetting unit with stable incubators and efficiency washers and photometer unit.

BIOBASE1000 Modularity

- 1 Robotic hand.
- 1 Pipetting probe, 1ul stepping (1000ul volumes).
- 80 Sample rack, 92 Dilution rack.
- 2 units 96 well microplate (pipetting,incubating,reading).
- 1 unit independent washer&reader (two 8 nozzle manifolds).



Testing Range:

- √ TORCH SERIES Toxo, RV, CMV, HSV etc.
- √ HEPATITIS SERIES HAV,HBV, HCV, HDV, HEV etc.
- √ VENEREAL SERIES HIV, TP, MP, CT etc.
- √ THYROID AUTOIMMUNITY SERIES T3, T4, FT3, TSH etc.
- √ ENDOCRINE SERIES E2, E3, LH, FSH, HCG, Pro, PRL etc.
- √ TUMOR MARKER SERIES CEA, AFP, PSA, F-PSA, CAL9-9, CAL 25, CA15-3, CA242.

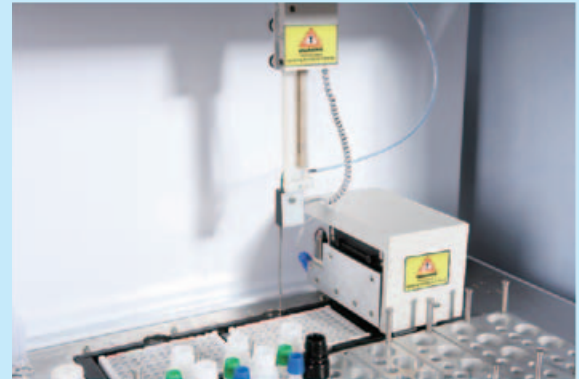
Modularity Composition:

- 2 microplate ,80 Sample rack, 92 Dilution rack.
- All-in-one microplate reader and washer
- 8 special reagent racks, 1 general reagent racks.
- Robotic precision probes and automated washing system.



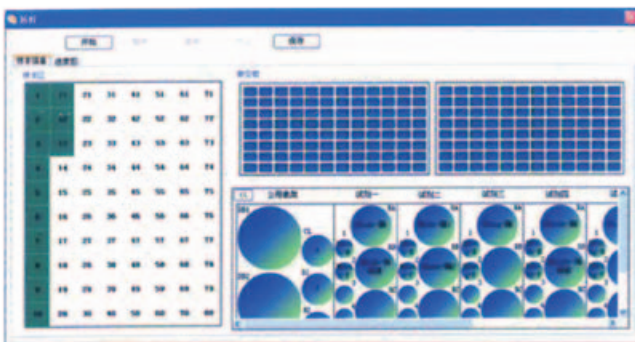
Washer:

- Two 8 nozzle manifolds
- Automatic liquid level sensor detection
- Separate aspiration and dispense probes prevent cross contamination



Reader:

- 8 independent photometric channels
- Wavelength range 400-700nm
- 2 precision filters (450,630nm), 2 more available on request.



User-friendly Software:

- LIS system available (laboratory information system)
- Large data storage capacity
- Professional service software monitor process on line status.

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- | | |
|--|---|
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Technical Parameters:

Model	Biobase1000			
Sample pipetting unit	Sample rack	80 sample tubes(12 mm)		
	Primary sample tubes	12*75mm		
	Pipetting	8ul~1000ul, (10ul) CV<5%		
	Dispensing system	1 aspirating-dispensing probe with X-Y-Z movement; dilution system with a syringe of 1000ul, continuous flow washing station.		
Reagent pipetting unit	Reagent racks	8 special reagent racks, 1 general reagent racks		
	Removable trays	modular racks to hold calibrators, controls and reagents for 8 test on line		
	Pipetting	8ul~1000ul, 1ul stepping.		
	Pipetting precision	(100ul)CV≤0.2~1%		
	Time to dispense	4 minutes(typical)^100ul of 96 reagents to plate from reagent bottle		
Incubation unit	Incubators	2 independent units		
	Temperature range	RT to 45 °C		
	Temperature accuracy	±0.2°C		
	Adjustment step size	±0.1°C		
Washing unit	Programmable	Yes(options & parameters)		
	Wash containers	2 wash buffers at 2.0L, with level-sensing		
	Washing system	two 8 nozzle manifolds, one to dispense and the other one to aspirate;		
	Washing residual	<2μl		
Reading unit	Reading system	8 independent photometric channels with mono and dichromatic reading capability		
	Photometric range	0.000 ~3.000 OD		
	Spectral range	400-700nm		
	Optical filters	2 precision filters (450,630nm); 2 more on request (4 filters max, 400-700nm)		
Software unit	Software system	Windows XP or Windows 7 or above, LIS system available		
	Function application	work list set up, patient reports and result filing; calibration curve		
	Data reduction	storage for each carried out test cut-off (qualitative)		
Physical Specification	Dimensions	790x610x650mm (W*D*H)	Weight	80kg
	Power Supply	AC110/220V±10%,50/60Hz	Consumption	500W