BIOBASE

BIOBASE 4000

BIOBASE4000 Automated ELISA Processor

Biobase Biodustry (Shandong) Co., Ltd.

BIOBASE 4000 Automated ELISA Processor

BIOBASE4000 Elisa Processors is fully automated Four-plate ELISA processing system, capable of sampling, 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.

BIOBASE 4000 Modularity

- 1 Robotic hand.
- 4 Pipetting probe, 1ul stepping (1000ul volumes).
- Total 25 racks, arbitrary rack can be defined as sample or reagent on the software.
- 4 units 96 well microplates

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, PSAF-PSA, CAL9-9, CAL 25, CA15-3, CA242.

Work Zone:

4 units 96 well microplates
24 sample tubes /sample rack.
2 reagent tanks / reagent rack,
24 QC positions/QC rack.
All-in-one microplate reader and washer.
Robotic precision probes and automated washing system.
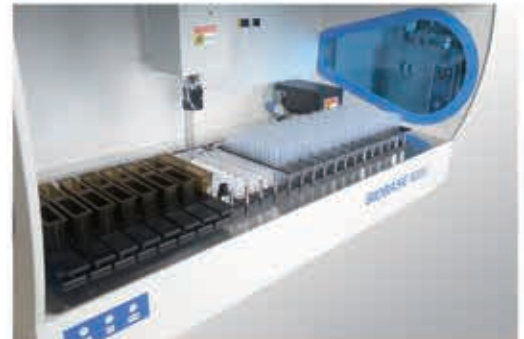
Washer:

Two 8 nozzle manifolds
Automatic liquid level sensor detection.
Separate aspiration and dispense probes prevent
cross contamination.(pipetting,incubator,reading).
1 unit independent washer &reader(two 8 nozzle manifolds).

Reader:

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

User-friendly Software:

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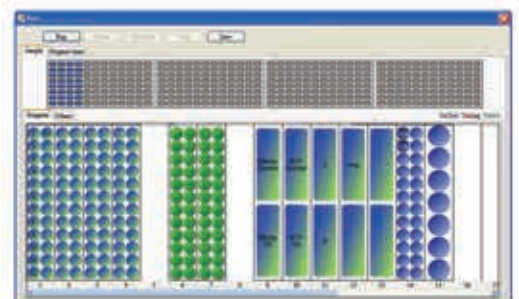
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Technical Parameters:

Model	Biobase4000	
Sample pipetting unit	Sample rack	24 sample tubes/rack, at most 25 racks
	Primary sample tubes	11.5-13mm
	Pipetting	8ul~1000ul, (10ul) CV<5%
	Time to dispense	8 minutes (typical)^100ul of 96 samples to plate from sample tubes or dilution tubes.
	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	2 reagent tanks(60ml)/ rack, at most 25 racks
	QC racks	24 positions/QC rack, at most 25 racks
	Pipetting	8ul~1000ul,1ul stepping,
	pipetting precision	(100ul)CV≤0.5%
	Time to dispense	2 minutes(typical)^100ul of 96 reagents to plate from reagent bottle
Washing unit	Programmable	Yes(options & parameters)
	Wash containers	4 wash buffers at 2.0L, with level-sensing
	Waste containers	10L with waste full sensor
	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 bichromatic reading capability
	Photometric range	0.000 ~3.000 OD
	Spectral range	400-700nm
	Optical filters	2 precision filters (450and 630nm); 2 more on request (4 filters max, 405 nm, 450 nm, 492 nm and 630 nm)
	Reading inaccuracy	inaccuracy±1% from 0.000 to 1.500 OD, ±2% from 1.500 to 3.000 OD
Incubation unit	Incubators	4 independent units
	Programmable	Yes
	Temperature range	RT to 45 °C
	Temperature accuracy	±0.5℃
	Temperature staility	±0.5℃
Software unit	Software system	Windows XP or Windows 7 or above, LIS system available, realize two-way data communications
	Function application	work list set up, patient reports and result filing; calibration curve ,storage for each carried out test
	Data reduction	cut-off (qualitative)
Physical Specification	Power Supply	AC220V+ 10%,50/60Hz, 450W
	Instrument Dimension	110*72*70cm (L*W*H)
	Instrument Weight	100kg
	Package Dimension	138*91*98cm(L*W*H)
	Total Weight	150kg