

Auto ELISA Processor BIOBASE1001

Introduction:

The Auto ELISA Processor BIOBASE1001 is a fully automatic detection equipment that integrates sample addition, incubation, shaking, washing, and reading. It is widely used in hospital laboratories, disease prevention and control centers, blood centers, and blood banks, animal and plant inspection and quarantine institutions, scientific research institutions, university laboratories and other places.

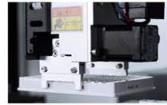
Features:

- ①. Adopt the principle of pressure type liquid detection.
- ②. With TIP detection, clot detection function.
- ③. High-precision pipetting, the lowest volume can reach 10 μ l.
- ④. Position sensing, real-time monitoring of gripper status.
- ⑤. Multi-spacing and multi-strength adjustable grippers can be adapted to grasp and place microplates and plate covers of different sizes.
- ⑥. Dual thread control, can run simultaneously with the sampling arm without interfering with each other.



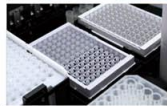
Sampling Module

Disposable TIP design, high precision, zero carry-over pollution;
1 injection channels are independently controlled, and each channel runs independently in Y-Z direction;
With liquid level detection, TIP head detection, clot detection and other detection and alarm functions.



Smart Gripper Module

Safe, reliable, stable, efficient, fast and accurate gripper;
With position sensing system;
Real-time monitoring of the grabbing process to prevent falling.



Shaking Incubation Module

2 independent temperature-controlled shaking incubation modules 3-level shaking;
Temperature range: RT-60°C;
Plate cover design to avoid strong light interference.



Microplate Washer Module

1 independent microplate washers, 16-channel (32-pin) washer head, 3-way cleaning solution;
Injection uniformity CV < 1.5%, residual volume < 2 μ L/well;
Program adjustable, applicable to SBS standard microplates.



Microplate Reader Module

Built-in high-precision microplate reader;
Single and dual wavelength detection, ten filter positions;
Wide absorbance range, high sensitivity, good repeatability and strong stability.

Parameters:

Model	BIOBASE1001	
Sample & Reagent Unit	Sample Racks	6*20 push-pull sample racks
	Sampling Channel	1 channel
	Liquid Level Detection	Air pressure level detection, clot detection function
	TIP	1000 μ l, 2 TIP racks
	Pipetting	10 μ l~1000 μ l
	Pipetting Precision	100 μ l: CV \leq 1%, Accuracy \leq 2.5% 1000 μ l: CV \leq 0.5%, Accuracy \leq 1%
Washing Unit	Reagent Position	2 Reagent racks
	Dilution Plate Position	1dilution plate position with incubation and shaking
	Washer	1 unit
	Washing Head	16-channel (32-pin), double row cleaning, hanging installation, with leakage recovery
Reading Unit	Injection Uniformity	CV < 1.5%
	Washing Residual	<2 μ l
	Reading Channels	8 independent photometric channels, mono and dichromatic reading
	Absorbance Range	0.000-4.000Abs
	Linear Range	0.000-3.000Abs
	Repeatability	CV \leq 1.0%
	Stability	\leq \pm 0.003Abs
	Spectral Range	400-700nm
	Optical Filters	4 standard filters (405,450,492,630nm); Total 10 filters positions
	Reading Accuracy	\leq \pm 0.02Abs from 0.0 to 1.0 OD, \leq \pm 0.03Abs from 1.0 to 2.0 OD
Incubation Unit	Sensitivity	\geq 0.01mg/L
	Channel Difference	\leq 0.02Abs
	Incubators	2 shaking incubators
	Cover Position	1 (2 covers)
	Heating Method	Dry heating with cover
	Shaking Function	Horizontal circular oscillation, 1-3 levels adjustable, amplitude 2.5mm
Data Management	Temperature Range	RT to 60 °C
	Temperature Uniformity	\pm 0.5°C
	Temperature Fluctuation	\pm 0.5°C
	Software	Above Windows 7 system
	LIS System	Bi-direction, support HL7 protocol
Other Function	Results	Absorbance and results reviewable by software
	Printer	External optional
	Built-in Scanner	Optional
	Biosafety Protection	Optional (Negative pressure working zone, HEPA filter)
Working Condition	Disinfection	UV lamp
	Lighting	LED
	IAP Function	Firmware can be upgraded online at any time
	Power Supply	AC220V \pm 10%,50/60Hz(Standard); 110V \pm 10%,60Hz(Optional)
Size & Weight	Temperature	10~40°C
	Humidity	30~80%
	External Size (W*D*H)	870*700*885mm
	Net Weight	180kg
Size & Weight	Package Size(W*D*H)	Machine: 1018*828*1130mm; Accessories: 750*1000*700mm
	Gross Weight	Machine: 160kg; Accessories: 80kg