BIOBASE CHINA

# **Automatic ELISA Processor BIOBASE1001**

## Introduction:

The Automatic 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 10µl.
- 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.

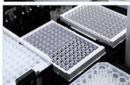


## **Smart Gripper Module**

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  $< 2\mu L/well$ ;

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 Racks	6*20 push-pull sample racks
Sample & Reagent Unit	Sampling Channel	1 channel
	Liquid Level Detection	Air pressure level detection, clot detection function
	TIP	1000µl, 2 TIP racks
	Pipetting	10µl~1000µl
	Pipetting Precision	100μl: CV≤1%, Accuracy≤2.5%
		1000µl: CV≤0.5%, Accuracy≤1%
	Reagent Position	2 Reagent racks
	Dilution Plate Position	1dilution plate position with incubation and shaking
Washing Unit	Washer	1 unit
	Washing Head	16-channel (32-pin), double row cleaning, hanging installation, will leakage recovery
	Injection Uniformity	CV < 1.5%
	Washing Residual	<2µl
Reading Unit	Reading Channels	8 independent photometric channels, mono and dichromatic readi
	Absorbance Range	0.000-4.000Abs
	Linear Range	0.000-3.000Abs
	Repeatability	CV≤1.0%
		210 000Ab-
	Stability	≤±0.003Abs
	Spectral Range	400-700nm
	Optical Filters	4 standard filters (405,450,492,630nm); Total 10 filters positions
	Reading Accuracy	≤±0.02Abs from 0.0 to 1.0 OD, ≤±0.03Abs from 1.0 to 2.0 OD
	Sensitivity	≥0.01mg/L
	Channel Difference	≤0.02Abs
Incubation Unit	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 2.5m
	Temperature Range	RT to 60 °C
	Temperature Uniformity	±0.5℃
	Temperature Fluctuation	±0.5℃
Data Management	Software	Above Windows 7 system
	LIS System	Bi-direction, support HL7 protocol
	Results	Absorbance and results reviewable by software
	Printer	External optional
	Built-in Scanner	Optional
Other Function	Biosafety Protection	Optional (Negative pressure working zone, HEPA filter)
	Disinfection	UV lamp
	Lighting	LED
	IAP Function	Firmware can be upgraded online at any time
Working Condition	Power Supply	AC220V±10%,50/60Hz(Standard); 110V±10%,60Hz(Optional)
	Temperature	10~40°C
	Humidity	30~80%
Size & Weight	External Size (W*D*H)	870*700*885mm
	Net Weight	180kg
	Package Size(W*D*H)	Machine: 1018*828*1130mm;
		Accessories: 750*1000*700mm
	Gross Weight	Machine: 160kg; Accessories: 80kg

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