

Isothermal Amplification System

FIA-1000



Description:

- ◆ FIA-1000 Isothermal Amplification System is an isothermal fluorescence PCR instrument that combines isothermal amplification technology with fluorescence signal detection technology. The real-time monitoring of the amplification process can be realized, and it has the advantages of high temperature control accuracy, high sensitivity, and good repeatability. The instrument has a built-in humanized operating system, and uses advanced mathematical models for data processing and graphic drawing, which can automatically interpret the results. The equipment can be widely used in the diagnosis of clinical diseases, qualitative/quantitative detection of epidemic bacteria/viruses, sex identification of animal embryos, and development of gene chips.
- Loop-mediated isothermal amplification technology is an emerging gene amplification technology and a new type of nucleic acid amplification method. Under the action of Bst DNA polymerase, 60~65°C constant temperature amplification, 10⁹~10¹⁰ times of nucleic acid amplification can be achieved in about 15-60 minutes. It has the characteristics of simple operation, strong specificity and easy product detection.

Features:

- ◆ Heating/cooling method: Peltier
- ◆ The block is treated with anodizing technology, which has high thermal conductivity and corrosion resistance.
- ◆ The block heats and cools very quickly—at rates as fast as 1°C/sec.
- ◆ Self-adjusting heating lid can automatically close to the tube.
- ◆ 5-inch intuitive color touch screen—for easy programming of users.
- ◆ 120 typical programs can be stored in memory and easily recalled.
- ◆ USB interface, support U disk to read running results.
- ◆ Small size, light weight, easy to carry.

Parameters:

Project	Parameters
Capacity	8x0.2ml(0.2ml PCR tube or 8-strip tube)
Temp. setting range	25°C~100°C
Temp. control range	RT+5°C~100°C
Temp. control range of heating lid	RT.+5°C~110°C
Program memory	120 programs
Optional path	8-path
Fluorescence excitation light wavelength	470nm ±25nm
Fluorescence detection wavelength	525nm ±25nm
On-screen report	Yes
Dimension(mm)	264x200x125

Project	Parameters
Temp. accuracy/uniformity	≤±0.25°C/≤±0.25°C
Max. heating time	1°C/sec
Max. cooling time	1°C/sec
Temp. display resolution	0.1°C
Temp. control	Block/Tube
Display screen	5-inch color touch screen, 800x480 Pixel
Readout way	1. Curve judgment 2. The instrument readout negative/positive automatically
Result display information	1. Negative/Positive 2. Peak time
Voltage	AC100~240V, 50-60Hz
Weight(kg)	2.3



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