

ES-BK/96P

Fluorescence Quantitative PCR detection system





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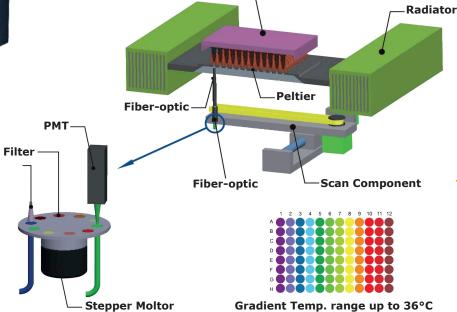
Fluorescence Quantitative PCR Detection System



ES-BK/96P is the newest product for Real-Time PCR detection system family. It performs 96 sample capacity. 5 detection channels and wider temperature range. Adopting newest Peltiet fiber optic Technology and a new global wide range power supply, the highly improved instrument is available for a variety of scientific research and clinical applications.

Hot-lid

Working principle

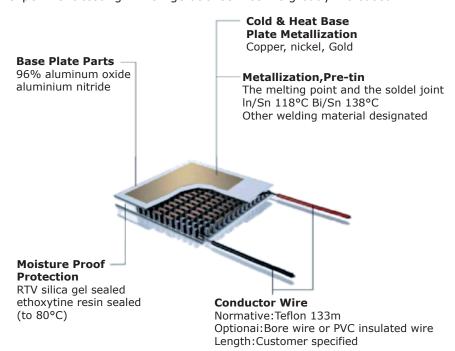


Hardware article

The hot-lid applies a new method of frame pressing. Six springs are distributed on the block in regular intervals. The pressure frame presses on the springs and the springs force on the block to ensure the uniformity of pressure. Moreover, the hot-lid has a perfect sealing design. The new design of pressure frame has rubber pad embeded around the edge, and it tightly wraps the aluminium hecting plate and forces on it to creat a sealed space around the block. This new design avoids the convection of hot and cold air around the block so that the good dynamic uniformity of block temperature is achieved.



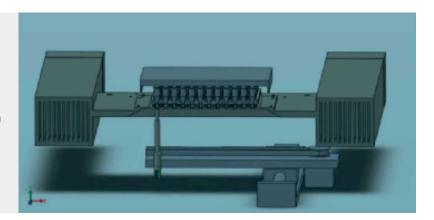
TE refrigeration using 72 long life series, the process in TE base plate and the semiconductor substrate using the new adhesive technology, make the TE also work normally under high humidity environment. and greatly improve the service life of the TE piece at the same time, through the experiment testing TE refrigerationservice life greatly increased.





The one at the bottom of the unique scanning, effictively prevent interference each other

- Use long life of LED light source. It doesn't need to maintain
- Advanced optical fiber transmission technology makes photoelectric detection system more sensitive and reliable.
- Precision optical path system combined with ultra high sensitivity of PMT system, makes the fluorescence detection more accurate and sensitive.



Software

- English interface, flexible program setting, comprehensive analysis and reporting functions, all the parameters can be stored
- Can print multiple or single sample report
- Remote network provides the most advanced technical support for real-time PCR detection system
- Support Windows tablets
- Support RS232, USB, Bluetooth interface

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Software Interface

ES-BK/96P softwate Includes Absolute Quantification, Relative Quantification, SNP Analysis, HRM Analysis function modules. With the preset programs, the user can set up experiments simply and fast.



Many software programs give c ustomers a variety of operating experience and meet customers' various selection.

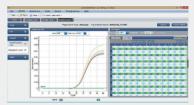
Operation interface

We con see the reot-time temperatue curve, application process and real-tine fluorescence signal to master the experimental progress



Software analysis interface

Three different algorithms ensure the accuracy of Ct value analysis. The user can use standard reference set up in the experiment to generate standard curve and analyze the result and save experiment resources



Consolidates report



Basic experiment information, experiment process, plate diagram and amplification curve can be put into the report, which makes it clear and unambiguous.

QC report



Saveguarding the accuracy of your experiments

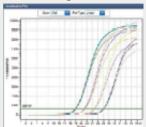


Technical Parameters

HRM

Two templates with one base pair difference in triplicate, the difference is easily recognized.

Absolute Quantitative



Four gradient templates in triplicate, proving good stability

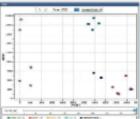
Relative Quantitative



Target genes: DNMT3B, GABRB3, NANDG, OCT3/4, TOGF1

The detection result shows accurate relative quantity of each gene.

SNP



The result sows that different genotypes are obviously distinguished

Sample Capacity	96-well PCR plate, 12x8-strip, 96x0.2ml(Bottom Transparent)
Dynamics Range	1-10 ¹⁰ Copies
Excitation Wavelength	300-800nm
_	500-800nm
Emission Wavelength	300-00011111
Detected Fluorescence	F1:FAM, SYBR GREEN I F2:VIC,HEX,TET,JOE,CY3,NED,TAMRA F3:ROX,TEXAS-RED F4:CY5 F5:CY5.5 F6:RESERVED FOR CUSTOMIZATION
Block temp. range	4-105°C(Minimum increment:0.1°C) SOAK Low Temp. Conservation Function
Heating/Cooling Rate	4.0°C/s(max)
Temp. Control accuracy	≤ ±0.1°C
Temp. Fluctuation	≤ ±0.1°C
Temp. uniformity	≤ ±0.3°C
r ,	BLOCK/Tube Simulation Mode
Temp. control mode	(Automatic Control Based On Sample Volume)
Sample Volume Range	5-100µĹ
Gradient Temp. Range	1-36°C
Hot-lid Temp. Range	30-110°C(Adjustable, Default 105°C), Automatic Hot-lid
Fluorescence Detection Repeatability	5%
Scan Mode	Entire plate of designated line
D	Max 20 Segments for Each Program,
Program	Max 99 Cycles
Operation Mode	Continuous
Scan Period	5.5s
Feature function	Absolute quantification, relative quantification, SNP Analysis, Data automatic analysis, melting curve genotyping, Gradient, multi-channel crosstalk correction, background correction, automatic gain, customized parameters.
Operation system	Microsoft: windows7/windows8.1 Software:excel2000/2002/2007/2012
PC Configuration	Memory: 2G Hard disk:32GB
Power supply	100-240V 50/60Hz 600W
Dimension(LxWxH)	410x386x352mm
Socket	USB Adapter, RS232 Adapter, Bluetooth Adapter
Authentication	Peltier/CE(EMC&LVD)/IVD/RoHS2/PICC Product quality liability insurance
Packing size	820x790x680mm
Gross weight	85KG





