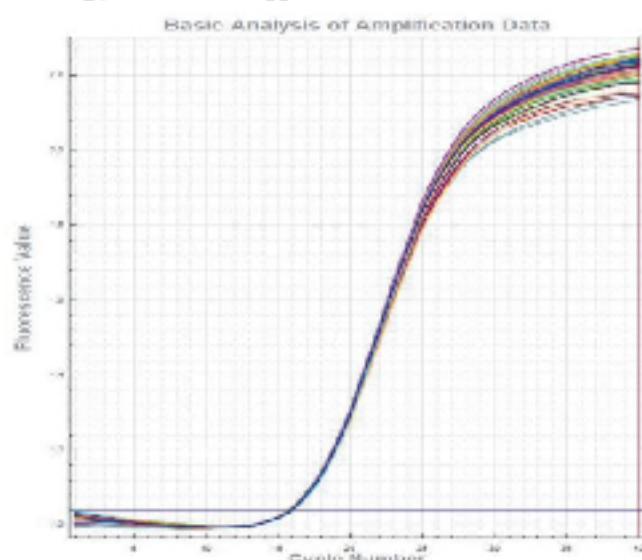


Real-Time PCR System

Accurate 96

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.



Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA 543 ± 20/584 ± 20	ROX/Texas Red 571 ± 20/610 ± 20	FAM/SYBR 480 ± 10/518 ± 10
VIC/HEX/TH1/TH 532 ± 10/564 ± 20	CY5/Quasar 670 640 ± 20/692 ± 40	FAM/SYBR 480 ± 10/518 ± 10
Channel 3	Channel 2	Channel 1

Features

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required.
- Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity.
- Unique edge temperature compensation technology to minimize "edge effect".
- Innovative technology with long-lasting LED light provides reliable results.

Technical Parameters

Temperature Control System		Detection System	
Sample capacity	0.1ml PCR tubes × 96, 8 × 12 PCR plate or 96 well plate × 1	Excitation light source	5/6 monochrome high efficiency LEDs
Reaction volume	10-50 µl	Detection device	PMT
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection wavelength range	455-650nm/510-715nm
Heating temperature range	4 - 100° C	Fluorescent channels	4/6 channels
Temperature accuracy	± 0.2° C	Supported dye	FAM/SYBR Green, VIC/HEX ROX, Cy5, Cy3 (only for x6)
Temperature uniformity	± 0.2° C @ 60° C, ± 0.2° C @ 95° C	Sensitivity	FAM/SYBR Green, VIC/HEX ROX, Cy5, Cy3 (only for x6)
Temperature gradient setting range	30-100° C	Resolution	FAM/SYBR Green, VIC/HEX ROX, Cy5, Cy3 (only for x6)
Temperature gradient difference setting range	1 - 36° C	Dynamic range	10 orders of magnitude copies