

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.

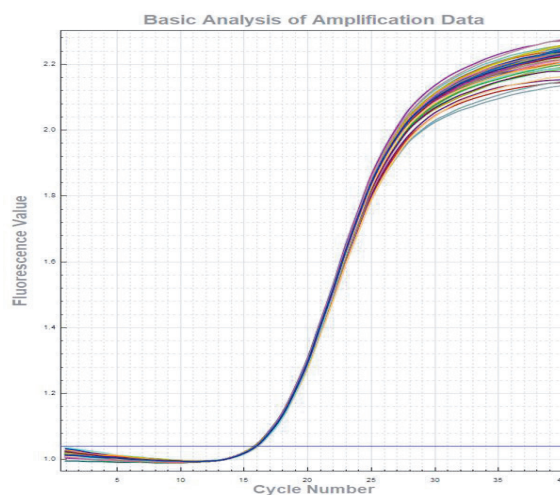
Real-Time PCR System Accurate 96

Features

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



| | | |
|--------------------------------------|-------------------------------------|-------------------------------|
| 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/TET/JOE 532 ± 10/564 ± 20 | CY5/Quasar 670 640 ± 20/692 ± 40 | FAM/SYBR 480 ± 10/518 ± 10 |
| Channel 3 | Channel 2 | Channel 1 |



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 | MPPC |
| 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 | Single copy gene |
| Temperature gradient setting range | 30-100°C | Resolution | 1.33 folds copy number difference can be distinguished in single-plex qPCR |
| Temperature gradient difference setting range | 1 – 36°C | Dynamic range | 10 orders of magnitude copies |