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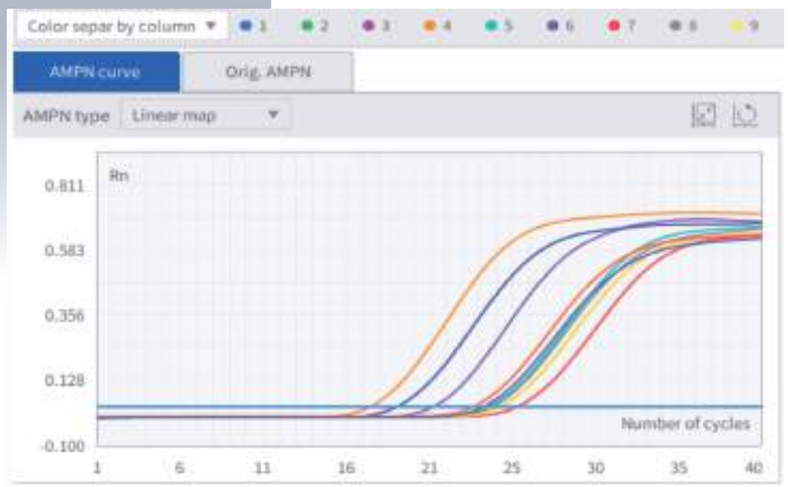
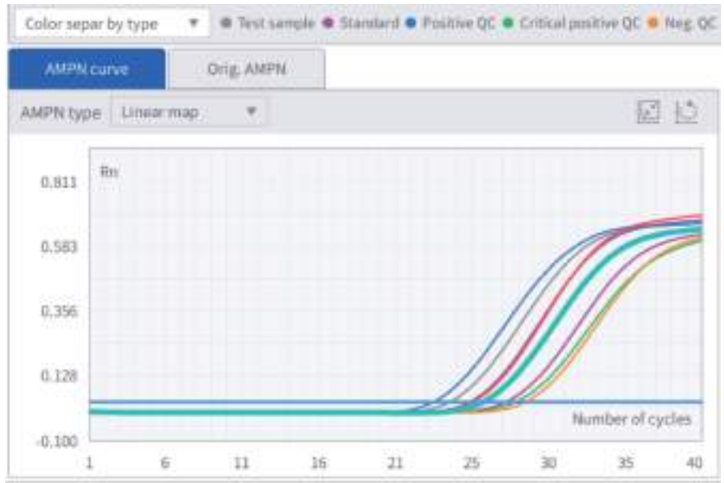
WEBSITE

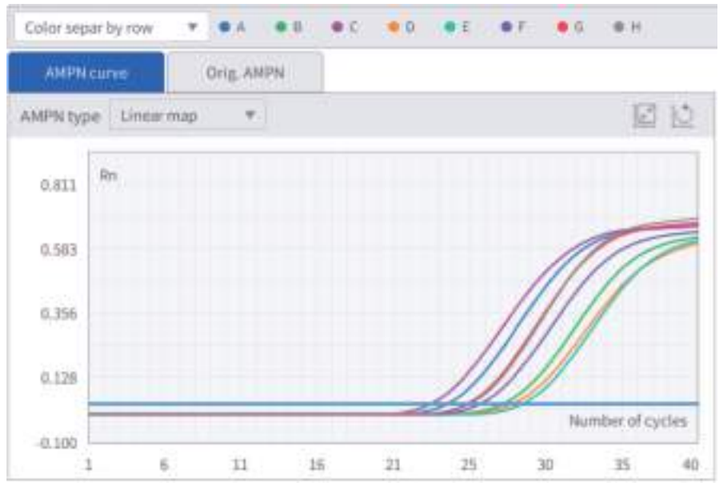
2023-11-30- N904-EN

REAL-TIME FLUORESCENCE QUANTITATIVE PCR ANALYZER

N 904







Custom selection of reaction curve style
Meeting the diverse needs of users

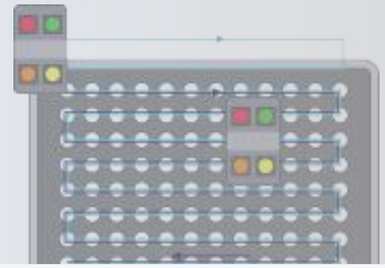
N 904

Real-time fluorescence quantitative PCR analyzer

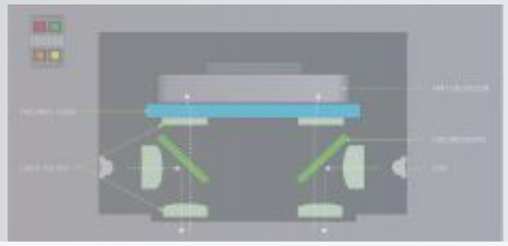
Based on the fluorescent polymerase chain reaction (PCR), and forming a complete set of nucleic acid detection reagent used jointly, in clinic for DNA samples from the body (DNA/RNA) for quantitative and qualitative detection and melting curves, including pathogens and the human genome project.

Accurate and efficient temperature control and optical system are the escort for accurate and stable results.

Large size PMT top hole by hole time-resolved scanning, effectively solve the channel crosstalk.



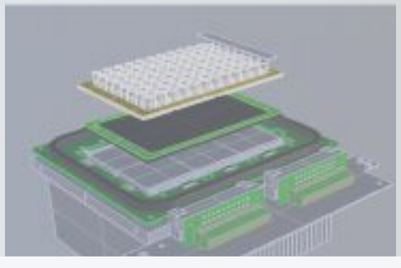
Effectively solving channel crosstalk, significantly reducing the efficiency of non-target signal collection, reducing the light intensity and difference of non-target optical path, and avoiding cross-infection of optical path; 8.5 s can complete the 4-channel whole plate scanning.



Anti-crosstalk multi-color detection performance to ensure multiple data requirements

The new optical signal detection system of Fresnel lens, high--sensitivity large-size PMT and maintenance-free high-efficiency LED further improves the sensitivity.

Unique temperature control technology



The uniformity and accuracy of the temperature between the wells can reach ± 0.2 °C, ensuring repeatability.

The maximum heating rate of the module is ≥ 4 °C / s, and the maximum cooling rate is ≥ 3 °C / s. The temperature control accuracy is less than 0.1 °C. Edge auxiliary heating compensation, no temperature edge effect.

Software Features

Fast experiment

Support preset project template, support before, during and after the experiment editing sample information.

← Multiple Data Analysis

Operation monitoring

During the operation of the experiment, the experimental progress, the original curve, the experimental steps, etc.can be viewed.

Personalized settings

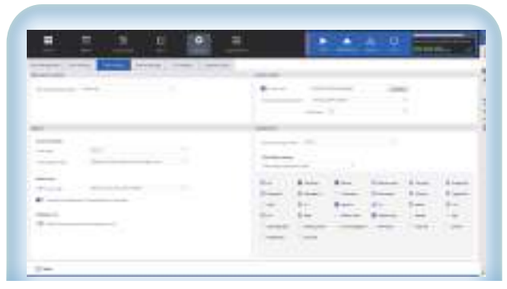
Support for table, curve information settings.

Power off and restart

Restart after power off, you can continue to carry out unfinished experiments and analysis.

Alarm/Log

Alarm prompt, and can query the alarm record / log record.



Personalized chart settings →

Product Parameter

N 904 Real-time fluorescence quantitative PCR analyzer

Sample size:	96 wells
Reaction volume:	10-50μL
Applicable consumables:	0.1ml PCR tube, 8-tube, 96-well plate
Applicable Reagents:	Open system, supporting third-party kits
Main functions:	Qualitative analysis, absolute quantitative / relative quantitative, melting curve
Light source:	LED
Fluorescence channel:	4 fluorescence channels
Fluorescence correction:	No need for fluorescence ROX correction
Fluorescence excitation wavelength and detection wavelength:	470-630nm，510-665nm
Detector and scanning method:	PMT top well by well scanning
Supported fluorescent dyes:	SYBR/LC/EVA/FAM，VIC/HEX/JOE/TET，ROX/Texas Rad，cy5,etc.
Detection dynamic range:	10 orders of magnitude
Detection sensitivity:	single copy gene
Detection resolution:	1.33 copy number difference
Temperature control method:	Peltier technology
Temperature control range:	4-100℃
The maximum heating rate:	4℃/s
Temperature control accuracy:	＜0.1℃
Temperature control accuracy and temperature uniformity:	±0.2 ℃，±0.2 ℃
Melting curve resolution:	0.1℃
Temperature control mode:	Module temperature control, reaction tube temperature control