Fluorescent Quantitative PCR Detection System

Brand **Master Science** | Unit **Pc**



Real-time PCR

This system is designed for high-performance fluorescence quantitative PCR detection, offering precise temperature control, rapid scanning, and multiple analysis modes for various molecular biology applications.

AT A GLANCE

0.1℃)
SUITABLE PROBE/DYE (MODULE TEMPERATURE RANGE)4~99℃ (RESOLUTION

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Technical Specifications

PARAMETER	SPECIFICATION
Sample Capacity (Reaction System)10~50μl	
Sample Capacity (Dynamics Range)1~10^{10} copies	
Sample Capacity (Channel)4	
Sample Capacity (Emission Light Source)LED	
Sample Capacity (Detector)MPPC (Multi-Pixel Photon Counter)	
Sample Capacity (Detection Path)F1 F2 F3 F4	
Suitable Probe/Dye (Excitation Wavelength)455~680nm	
Suitable Probe/Dye (Detection Wavelength)510~730nm	
Suitable Probe/Dye (Fluorescence Detection Repeatability)CV ≤2%	
Suitable Probe/Dye (Fluorescence Detection Accuracy)CV ≤3%	
Suitable Probe/Dye (Fluorescence Detection Linearity)r ≥ 0.995	
Suitable Probe/Dye (Module Temperature Range)4~99℃ (Resolution	**0.1**℃)
Suitable Probe/Dye (Ramp Rate)5.0℃/s (Max)	
Suitable Probe/Dye (Temperature Accuracy)±0.3℃	
Suitable Probe/Dye (Temperature Uniformity)≤±0.3℃	
Suitable Probe/Dye (Temperature Control Mode)Block mode	
Suitable Probe/Dye (Gradient Temperature Range)1~36℃	
Suitable Probe/Dye (Hot-lid Temperature Range)100℃, automatic hot-lid	

PARAMETER	SPECIFICATION
Suitable Probe/Dye (Scanning Mode)	Full plate scanning
Suitable Probe/Dye (Programming)	Max 100 segments per program, max 99 cycles
Suitable Probe/Dye (Operation Mode)	Continuous
Suitable Probe/Dye (Scanning Time)	8.5s
Special Functions (Operation System)	Microsoft Windows 10
Special Functions (Power Supply)	220V, 50 Hz
Special Functions (Port Method)	USB Port
96*0.1ml PCR plate	
12*8-strip tubes	
96*0.1ml single tube (Transparent cover)	
FAM/SYBR GREEN	
VIC/JOE/HEX/TET	
ROX/TEXAS-RED	
Cy5	
Absolute quantitative automatic analysis	
Relative quantification	
SNP analysis	
Melting curve analysis	