



# Real-time Fluorescent Quantitative PCR Analyzer



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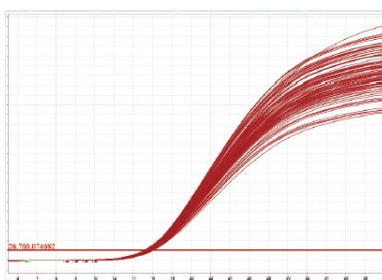
Darsun Scientific

# Real-time Fluorescent Quantitative PCR Analyzer

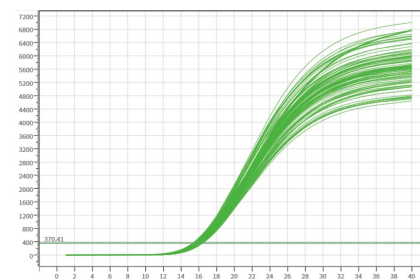
DS-RT96H



Prepare 5 $\mu$ L reaction system to amplify on DS-RT96H qPCR instrument respectively, and compare the amplification effect and reagent evaporation.



Amplification curve of one famous brand qPCR instrument



Amplification curve of qPCR instrument

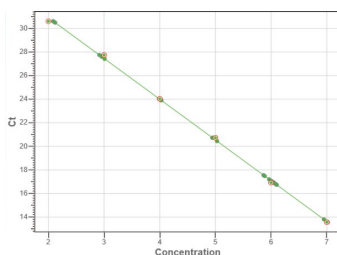


5 $\mu$ L reaction system of one famous brand qPCR instrument

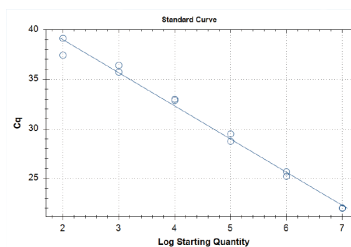


5 $\mu$ L reaction system of qPCR instrument

Prepare 6 kinds of gradient reaction system (concentration:  $10^1 \sim 10^6$ ) to amplify on DS-RT96H and one international famous brand qPCR instrument respectively, compare standard curve



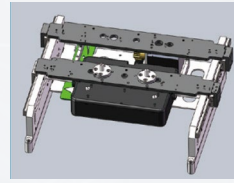
Assay: project11-FAM(target1) Intercept: 37.83 slope: -5.46 Error: 0.009 correlation: -0.999 Efficiency: 98.47



Standard Curve  
O Standard  
X Unknowns  
FAM E=99.1% RA 2=0.989 slope=3.344 y-int=45690



Industrial-grade customized semiconductor coolers+ Intelligent PID temp. control system=Rapid temp. change+precision temp. Control

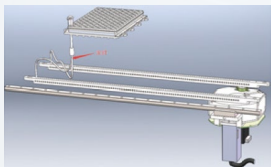


Electric automatic hot lid, automatic pressing

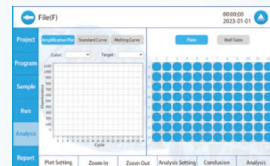


Gain Auto Gain ▾

Automatic gain, the system intelligently selects the best gain



High performance LED+ high-sensitivity PMT+all fiber photoelectric module= extremely fast fluorescence scanning +top signal stability



Large Android touch screen, tailored Android analysis software, two touches to start experiment fastest, can also be connected to the computer, keyboard and mouse, control at will

Model	DS-RT96H	ROX calibration	No need
Sample quantity	96 well × 0.2 mL (Optional 96 well × 0.1 mL)	Temp. control method	Thermoelectronic
Consumable type	0.2 mL 96 well plate (Half-skirted, Non-skirted), 8-strips tubes, Single tube (bottom should be transparent)	Ramp rate (max)	6°C/s
Reaction volume	5–100 µL	Temp. accuracy	±0.1°C
Dynamic range	1–10 <sup>10</sup> copies	Temp. uniformity	≤ ±0.2°C (55°C)
Sample repeatability	CV < 1%	Temp. range of hot lid	RT + 5°C ~ 110°C
Sample linear	r  ≥ 0.999	Temp. gradient range	0.1–36°C
Automatic hot lid	Hot lid controlled by touch button, automatically presses tube	Time increase/decrease	0.1 ~ 9 min 59 s, long PCR available
Fluorescence channel	5	Temp. increase/decrease	0.1 ~ 9.9°C, touchdown PCR available
Fluorescence dyes	F1: FAM, SYBR Green I, SYTO 9, EvaGreen, LC Green F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED F3: ROX/TexRed F4: CY5 F5: CY5.5 F6: Optional	Software function	Absolute quantification, relative quantification, melting curve, HRM, SNP, etc.
		Operation method	10.1 inch colourful Android touch screen, simple and convenient and Windows system computer can also connect to it
		Safety protection and alarm	Over heat protection and alarm for block and hot lid
Excitation light source	High brightness long-life LED excitation light source	Data export	Excel, TXT
Detector	PMT	Software language	English
Excitation wavelength	Channel 1: 470 nm Ch2: 523 nm Channel 3: 571 nm Channel4: 628 nm Channel 5: 678 nm	Voltage range	100–240 V
		Interface mode	USB 2.0 / HDMI
Detection wavelength	Channel1:525nm Channel2 : 564nm Channel3 : 612nm Channel4 : 692nm Channel5 : 718nm	Power (max)	1000 W
		Dimension (D×W×H)	473 × 335 × 330 mm
Single channel scanning time	1.5 s	Net weight (kg)	26