



Real-time Fluorescent Quantitative PCR Analyzer



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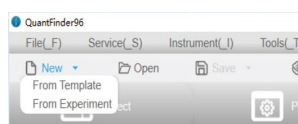
Real-time Fluorescent Quantitative PCR Analyzer

DS-RT16N/DS-RT48L

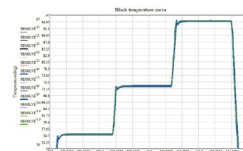


Product features

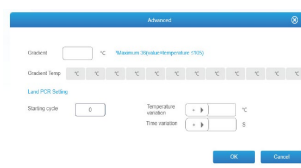
- High-quality Thermoelectric Module specially designed and customized, multi-point control, brings excellent temperature control performance, and BFQP-96 has a maximum ramp rate of 6 °C/s
- Long-life maintenance-free LED excitation light source, high-sensitivity photomultiplier tube(PMT) and professional optical fiber ensure high-intensity and high-stability signal transmission
- Well by well scanning results in no fluorescence edge effect, and the instruments do not need ROX calibration. BFQP-96 single-channel scanning time is less than 1.5s.
- The analysis software is friendly, intuitive, concise, humanized and easy-to-operate. New experiments can be quickly created in multiple ways, and the results are automatically analyzed after the experiment.
- The report template can be customized, and supports data export in multiple formats to facilitate access to the LIMS system.
- Electric automatic hot lid, no manual operation is required.



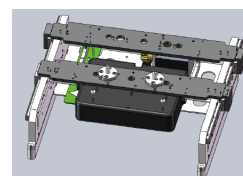
Multiple new experiment creation ways



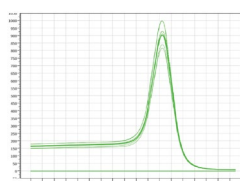
Excellent temperature control performance



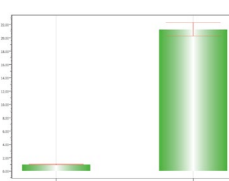
Multiple advanced functions



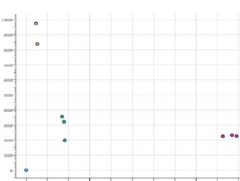
Electric automatic hot lid



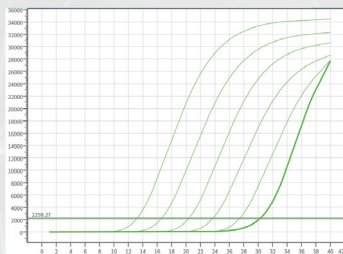
Melting curve



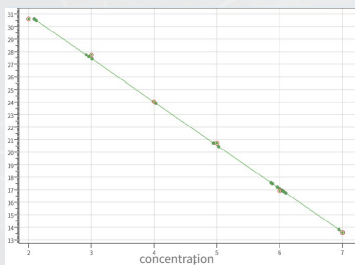
Relative quantification



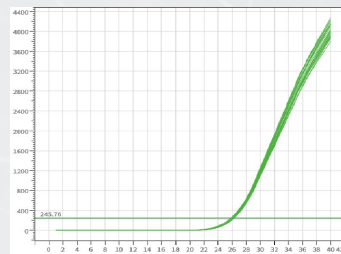
SNP



Gradient curve



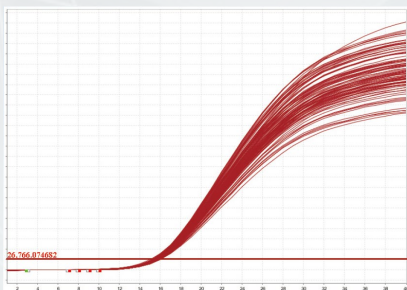
Standard curve
Related coefficient: -0.999



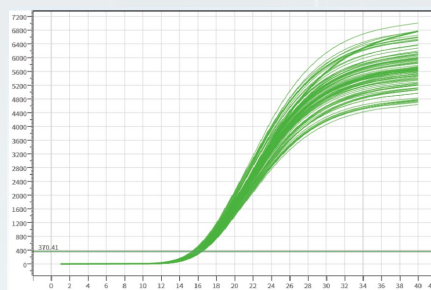
Uniformity

Experimental comparison

Prepare 5 μ L reaction system to amplify on BigFish BFQP-96 and an international famous brand Qpcr instrument respectively, and compare the amplification effect and reagent evaporation



Amplification curve of a famous brand qPCR instrument



Amplification curve of qPCR instrument

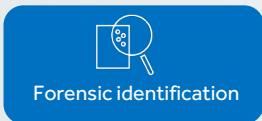


5 μ L reaction system of a famous brand qPCR instrument



5 μ L reaction system of BigFish qPCR instrument

Application scenario



Model	DS-RT16N	DS-RT48L
Sample quantity	16well x 0.2ml	48well x 0.2ml
Consumable type	0.2 mL 8-strip tubes, Single tube (the bottom should be transparent)	
Reaction volume	10-100 μ L	
Dynamic range	1-10 copies	
Sample repeatability	CV < 1%	
Sample linear	$ r \geq 0.999$	
Hot lid	Manual hot lid	The hot lid can be controllers by touch button to automatically press the tube
Fluorescence channel	5	
Fluorescence dyes	F1: FAM,SYBER Green I ;SYTO 9 Evagreen ,LG Green F2: VIC HEX TET,JOE TAMRA,CT3 NED: F3: ROX/Tex Red; F4:CY5; F5:CY5.5;	
Excitation light source	High brightness and long life LED excitation light source	
Detector	PD	
Excitation wavelength	Channel 1:470nm; Channel 2: 523nm; Channel 3: 571nm; Channel 4: 628nm; Channel 5: 678nm	
Detection wavelength	Channel 1: 525nm; Channel 2: 564nm; Channel 3: 612nm; Channel 4: 692nm; Channel 5: 718nm	
Single channel scan time	< 1s	3.75s
ROX calibration	No need	
Temp. control method	Thermoelectronic	
Ramp rate (max)	6°C/s	4°C/s
Temp. accuracy	$\pm 0.1^{\circ}\text{C}$	
Temp. uniformity	$\leq \pm 0.2^{\circ}\text{C}$ (55°C)	
Temp. range of hot lid	RT + 5°C - 110°C	
Temp. gradient range	/	0.1-6°C (Independent temp. control)
Time increase/decrease	0.1~9min59s, Long PCR is available	
Temp. increase/decrease	0.1~9.9°C, Touchdown PCR is available	
Software function	Support absolute quantitative, relative quantitative, melting curve, HRM, SNP and other functions	
Safety protection and alarm	Over heat protection and alarm for block and hot lid	
Result export data	Excel, TXT	
Software language	English	
Voltage range	100-240V, AC 50/60Hz	
Screen	7 inch touch screen	6.8 inch display screen
Interface mode	USB	USB-type B
Power (max)	350W	600W
Dimensions (D x W x H)	280 x 187x193	410 x 300 x 286 mm
Net weight	6.9kg	13kg