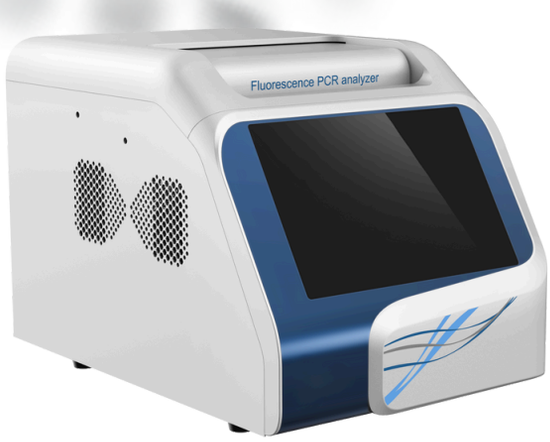
BM Laboratuvar Sistemleri

Real-time Fluorescent Quantitative PCR Analyzer

BFQP-16

BFQP-48



BFQP-96

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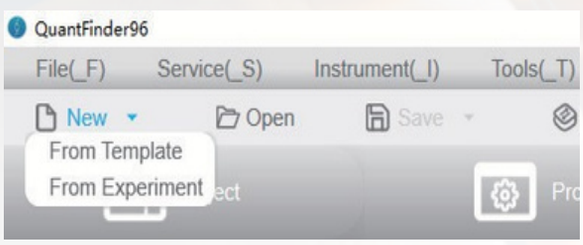
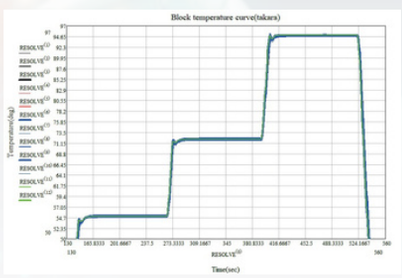
Product **Features**

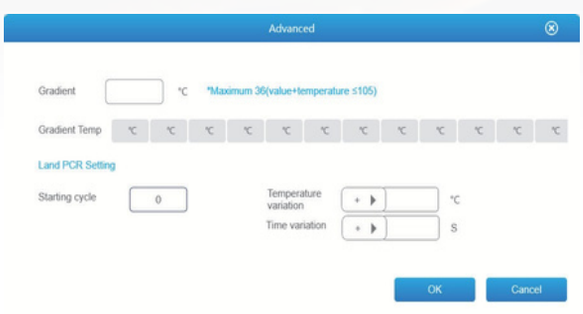
- High-quality Thermoelectric Module specially designed and customized, multi-point control, brings excellent temperature control performance, and BFQP-96 has a maximum ramp rate of 6 ℃/s
- Long-life maintenance-free LED excitation light source, high-sensitivity photomultiplier tube(PMT) and professional 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 acc- ess to the LIMS system.
- Electric automatic hot lid,no manual operation is required.



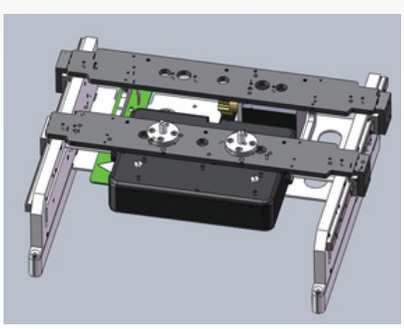
Multiple new experiment creation ways



Excellent temperature control performance

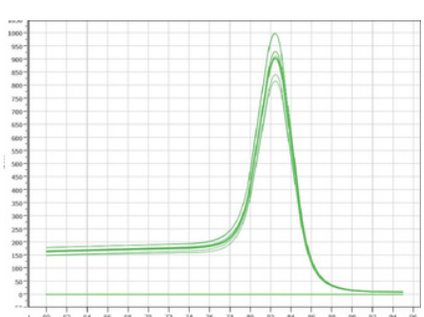


Multiple advanced functions

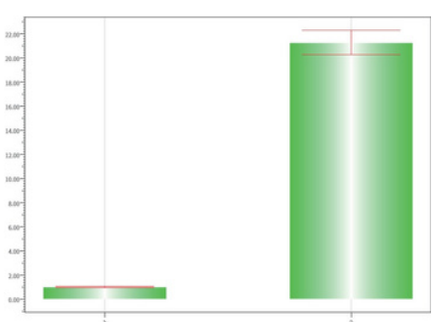


Electric automatic hot lid

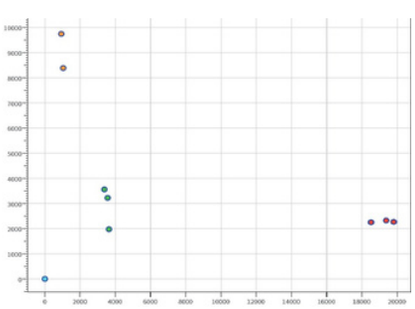
Powerful **function**



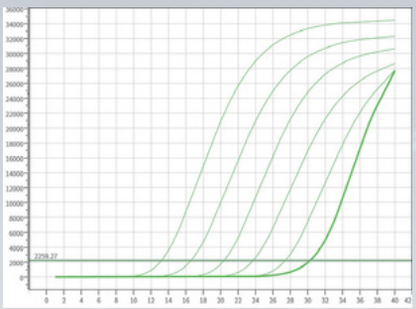
Melting curve



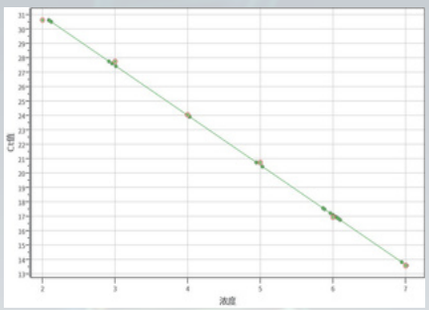
Relative quantification



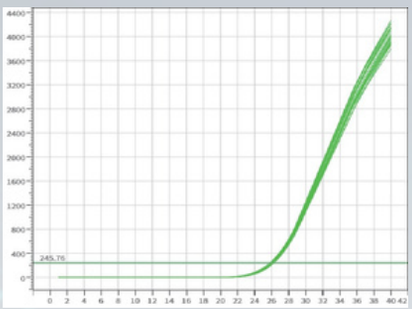
SNP



Gradient curve



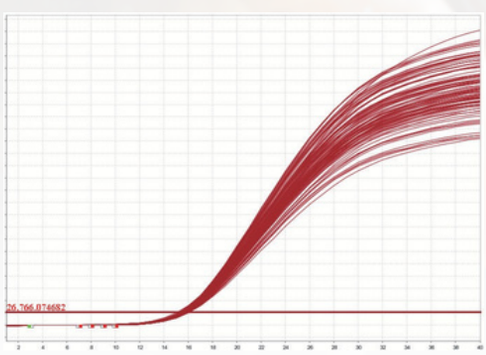
Standard curve
Related coefficient: -0.999



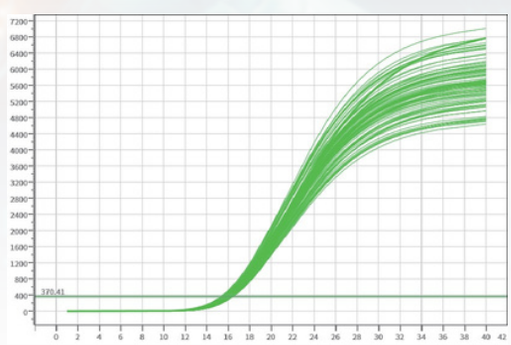
Uniformity

Experimental **Comparison**

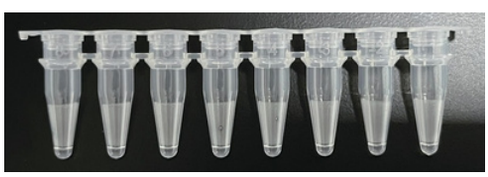
Prepare 5 μL reaction system to amplify on New Bioscience BFQP-96 and an international famous brand qPCR instrument respectively, and compare the amplification effect and reagent evaporation.



Amplification curve of a famous brand qPCR instrument



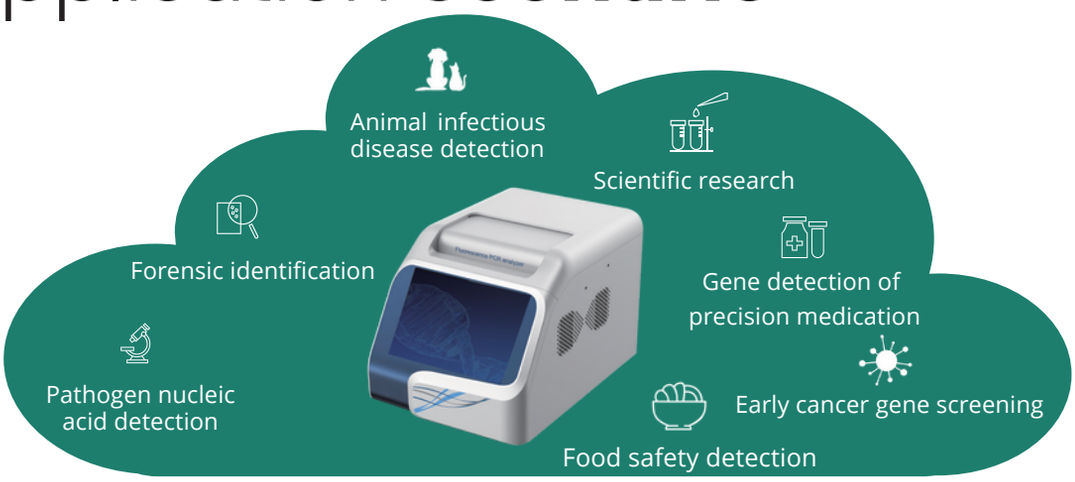
Amplification curve of BigFish qPCR instrument



5 μL reaction system of a famous brand qPCR instrument

5 μL reaction system of BigFish qPCR instrument

Application **Scenario**



Product **Parameter**

Model	BFQP-16	BFQP-48	BFQP-96
Sample quantity	16well×0.2ml	48well×0.2ml	96well×0.2ml(optional 96-well×0.1ml)
Consumable type	0.2 mL 8-strip tubes, Single tube (the bottom should be transparent)		0.2 mL 96-well plate (Half-skirted, Non-skirted), 8-strip tubes, Single tube (the bottom should be transparent)
Reaction volume	10-100 μL	5-100 μL	
Dynamic range	1-10 copies		
Sample repeatability	CV＜1%		
Sample linear	|r|≥0.999		
Automatic hot lid	Manual hot lid	The hot lid can be controlled by touch button to automatically press the tube	
Fluorescence channel	5		
Fluorescence dyes	F1: FAM、SYBR Green I; F2: VIC、HEX、TET、JOE、TAMRA、CY3、NED; F3: ROX/TexRed; F4: CY5; F5: CY5.5;		F1: FAM、SYBR Green I; F2: VIC、HEX、TET、JOE、TAMRA、CY3、NED; F3: ROX/TexRed; F4: CY5; F5: CY5.5; F6: Optional;
Excitation light source	High brightness and long life LED excitation light source		
Detector	PD	PMT	
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 scanning time	＜1s	3.75s	1.5s
ROX calibration	No need		
Temp. control method	Thermoelectronic		
Ramp rate(max)	6℃/s	4℃/s	6℃/s
Temp. accuracy	±0.1℃		
Temp. uniformity	≤±0.2℃（55℃）		
Temp. range of hot lid	RT+5℃-110℃		
Temp. gradient range	/	0.1-6℃ (Independent temp. control)	0.1-36℃
Time increase/decrease	0.1~9min59s, LongPCR is available		
Temp. increase/decrease	0.1~9.9℃, Touchdown PCR is available		
Software function	Support absolute quantitative, relative quantitative, melting curve, HRM, SNP and other		
Safety protection and alarm	Over heat protection and alarm for block and hot lid		
Result export data	Excel, TXT		
Software language	Chinese, English		
Voltage range	00-240V,AC.50/60Hz		
Interface mode	USB	USB-typeB	USB2.0/HDMI
Power（max）	350W	600W	1000W
Dimensions (D x W x H)	280×187×193 mm	410×300×286mm	473×335×330mm
Net weight	6.9kg	13kg	26kg