



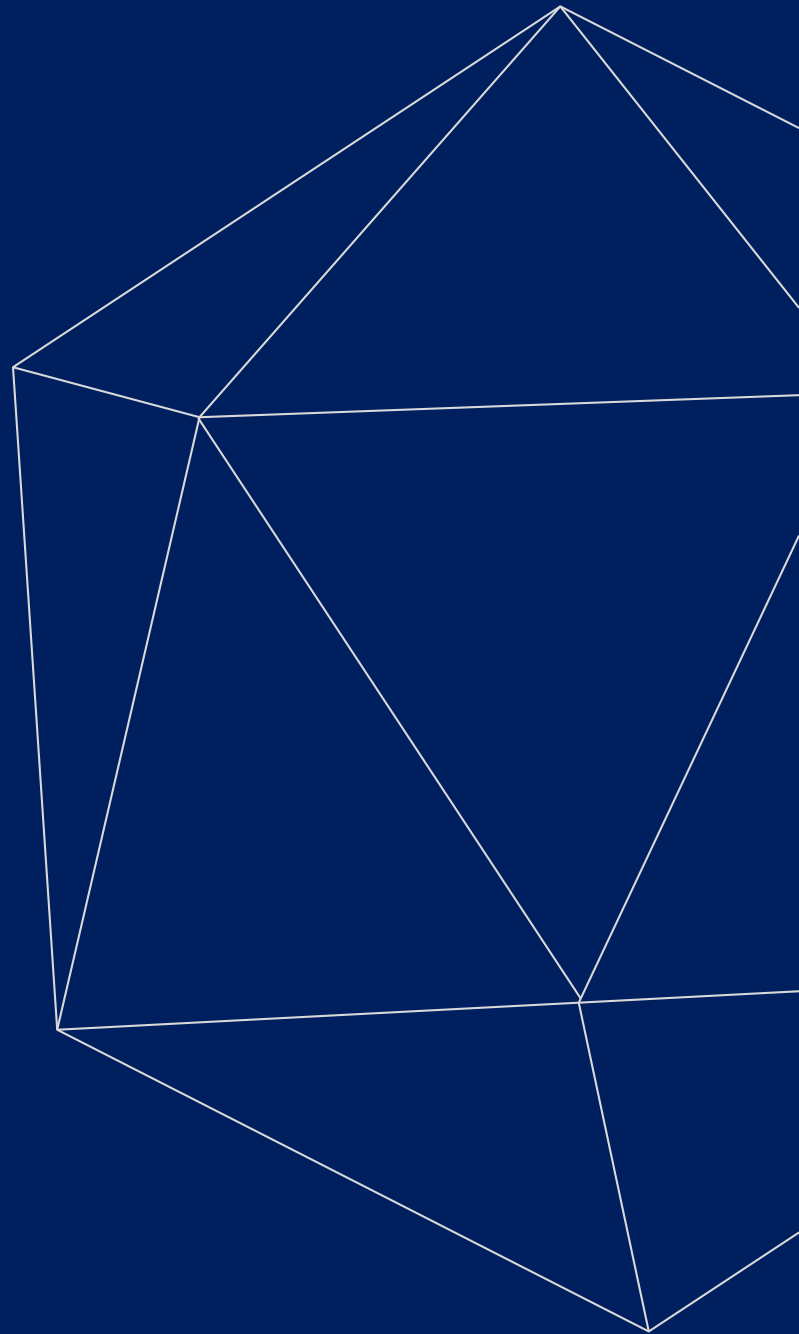
LABORATORY SECTOR

PCR THERMAL CYCLERS



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KALSTEIN® PCR Thermal Cyclers
Thermal Cycler
Model YR01868



Product Description:

The YR01868 real-time PCR system is an advanced PCR workstation that incorporates innovative optical technologies and powerful software to provide maximum reliability and efficiency for all your real-time PCR needs. It is designed to meet the needs of small to medium laboratories, mobile labs and on-site testing. With 4 fluorescence channels, it is capable of processing 48 samples in a single run, making experiments easier to manage and more accurate. The YR01868 PCR workstation is the perfect combination of excellent performance, efficiency and portability.

48 samples to scan in 2s:

Only 2s for 48 wells fluorescence scanning can significantly reduce testing time and improve efficiency for lab professionals.

More convenient with two configurations:

Independent configuration: 7-inch touch screen, direct print sample amplification curve, and CT values by connecting to a thermal printer (optional);

PC control configuration:

PC software control through connection, one PC can control maximum 10 instruments.

Easy to use and more flexible:

The YR01868 portable PCR workstation is designed to be small and lightweight. This can greatly enhance the mobility of this PCR workstation for on-site testing.

Efficient temperature control:

YR01868 only takes 40 minutes to complete a standard PCR amplification process, Temperature accuracy is controlled within 0.1°C.

Powerful analysis software:

YR01868 offers multiple functions including relative quantification, absolute quantification, melting curve analysis, SNP analysis, and supports other fluorescence analysis functions based on isothermal amplification technique.



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KALSTEIN® PCR Thermal Cyclers

Thermal Cycler

Model YR01868



Technical Description:

Model	YR01868
Throughput	96
Fluorescence Channels	2
Fluorescence Scanning Time	2s
Dye Compatibility	Channel 1: FAM, SYBR Green I, SYTO 9, Eva Green, LC Green Channel 2: HEX, VIC, TET, JOE
Optical System	
Light Source	High-brightness, long life and maintenance-free LED light source
Detector	Photodiodes (PDs)
Excitation Range	CH1: 470nm CH2:523nm CH3:570nm CH4:638nm
Detection Range	CH1:525nm CH2:564nm CH3:610nm CH4:685nm
Fluorescence Dynamic Range	Adjustable
Sample Dynamic Range	From 101 to 1010copies
Thermal Block	
Heating Method	Peltier
Heating Rate	≥8.0 °C/s °C
Cooling Rate	≥6.2 °C/s
Temperature Accuracy	≤0.1 °C
Gradient Range	1°C-40 °C
Gradient Block	8 row
Special Temperature Protocol	Thermal gradients PCR, long PCR, Touch Down PCR
Sample Testing Linearity and Repeatability	Linear correlation: $r \geq 0.999$ Repeatability: cycle threshold (Ct) value $CV \leq 0.5\%$
Software Functions	
Control Modes	Model1: 7 inch touch screen Mode 2: PC direct control
Power Failure Protection	Automatically start running experiments after power supply, no need to wait PC software
Data Storage and Transmission	Upload and download through USB disk. 1000 results can be stored in machine
Reporting Function	Templates reserved; customized experiment report
Key Applications	Relative quantification, absolute quantification, melting curve analysis ,SNP analysis
Others	
Operating System for PC	Win7/Win10/Win11
Power Supply and Power Consumption	AC 100-240V,50-60HZ; 600VA
Weight	11 Kg (net)
Instrument Dimension	260*400*260mm (W*L*H)
Suitable Consumables	0.2mL clear non-skirt 48-WELL plates, 8-tube strips, single tubes, etc.



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