FTC-2000 Real Time Thermal Cycler

Price：€35, 000. 00

The FTC-2000 series comprises a family of rapid thermal cycler, combined with micro-volume fluorimeter that utilize high quality optics. The highly flexible, fully automated systems can carry out reactions in 96-well plates, strip tube, or individual PCR tube formats. All feature the familiar Windows-based operating system, and all instrument, set-up and analysis functions are controlled via an intuitive, easy-to-use software interface that permits rapid experimental set-up and data analysis. After each thermal cycle, a quantitative display of fluorescence vs. cycle number is continually updated for all samples. Experimental reports can be exported and analysed using Microsoft Office.

The instrument performance is characterized by a robust design, outstanding sensitivity, a wide dynamic range, flexibility of operation and easy set-up for automation. The instruments are designed to carry out any real-time PCR assay, including fast screening for infectious agents, mutation and SNP analysis, detection of GMO and quantification of cellular RNA levels. As a closed-tube system, contamination is minimised and the ability to collect and analyse data in real-time and efficient and intuitive data management allows the researcher to generate data rapidly and reproducibly.

The FTC-2000 series is designed to handle all current fluorescence-based chemistries, such as TaqMan, Molecular Beacon, Scorpions, Lux primers, SYBR Green, MGB, which produce changes in fluorescence emission upon specific PCR product formation. A broad spectrum excitation source provides high excitation energies over a wavelength range from 400 to 700nm. All sample positions are illuminated and the resulting fluorescence emission is directed through optical fibers to a charge-coupled device (CCD) camera. Excitation and emission wavelengths are selected from within this range using interference filters. Maximum sensitivity is ensured because each fluorophore is excited using its optimal excitation wavelength. Four filter sets optimized for the detection of the most commonly used fluorophores are provided, the filter sets for other fluorophores are also available and can be supplied according to customer requirements. This arrangement makes the instrument future-proof, awaiting the development of novel chemistries or fluorophores.

Specifications	Description
Electrical	Voltage: 100-240 VAC Frequency: 50/60 Hz ± 1% Power: 850 W
Dimensions (WxLxH)	54cm x 39cm x 33cm*
Weight	25kg*
Operation	PC

Add: Floor 2,Building A,328#, Wuhe Road,Minhang District,Shanghai,201109,China
Tel: +86-21-54460832 Web: www.synthesisgene.com
Fax:+86-21-54460831 E-mail: master@shinegene.org.cn

Sample Capacity	0.2mlx96 single tube, 8-strip tube and 96-well plate
Thermal Cycling System	
Heating and/or cooling system	Peltier-based TE Module
Heating Speed	3.0℃/s
Cooling Speed	2.5℃/s
Temperature Range	4-100℃
Temperature display accuracy	0.1 ℃
Uniformity of well to well	±0.3°C
Gradient Range	40-100°C
Gradient: Temerature differential Range	1-25°C
Multiple temperature zoom	6
Uniformity of zoom temperature	±0.4°C (> 6 wells for every zoom)
Optical System	
Excitation Light Source:	Tungsten Halogen Lamp （>3000 hours）
Wavelength of Excitation Light	4 filters provided, 480/520/580/610
Wavelength of Emission Light	4 filters provided, 520/550/610/670
Detector	Cooled CCD
Software	Absolute Quantification :
	Relative Quantification:
	Multiple Quantification:
	Melting Curve Analysis
	ΔΔ CT
	Allelic Analysis
	PCR Efficiency calculation and correction well by well
	SYBR Green I Correction
	Quality Management
	Export easily to Word and Excel file format
	Auto-baseline and auto-threshold for simplified data analysis
	Dye calibration by software

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