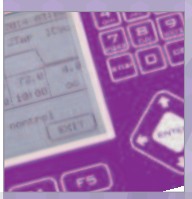
THERMALcycler

GTC96S Thermal Cycler delivers exceptional performance at an affordable price



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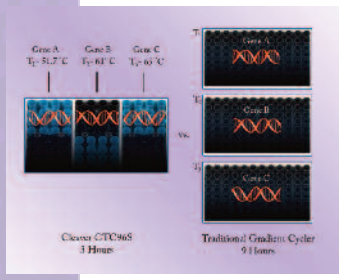
GTC96S
Thermal Cycler

- Gene cloning and analysis. Gene expression analysis. Mutational screening
- Compatible with 96-well plates, 0.2ml tubes and tube strips
- Protocol optimization selectable from 1 to 24°C across the entire temperature control range from 4 - 99.9°C
- Precision temperature control increases both speed and efficiency

Faster and with enhanced features, the new GTC96S advanced thermal cycler delivers exceptional performance at an affordable price. An improved protocol optimisation process utilises Flexible Temperature technology to segregate the 96-well plate into six discrete (4x4-well) temperature zones, made easily distinguishable by blue and black squares. Temperature selection is no longer automated and is entirely in the hands of the operator over a 24°C advanced range, anywhere between 4 and 99.9°C. This enables the operator to optimise PCR by testing 6 different temperatures simultaneously in just one thermal cycler run. This is ideal for Genotyping work.

With heating and cooling rates of 5°C/s and 3.5°C/s respectively, the precision temperature control of the GTC96S minimises temperature overshooting and undershooting between individual stages within each PCR cycle, resulting in faster run times and greater efficiency.

Programming is both quick and simple through a large user-friendly interface, while pre-programmed methods for Optimisation, Touchdown and Time Increments make set-up obvious even to first time users. A heated lid, which is fully adjustable to apply optimal pressure to 0.2ml tubes and microplates, may be programmed to hold different temperatures between 60 and 65°C and 100 to 115°C. Additional advantages offered by the new heated lid are its slide-in slide-out design for safe access to samples, and its prevention of condensation formation during overnight cooling.



Flexible temperature technology provides ability to run multiple samples with different annealing temperatures in one run. This is ideal for genotyping.

Intuitive user-friendly interface facilitates manual selection of different temperatures in each of the 4x4-well zones, for full user control during PCR optimisation.

Blue and black squares on the thermal cycler block aid identification of each of the six 4x4-well temperature zones.

TECHNICAL SPECIFICATIONS

Sample Capacity	1x 96-well plate; 12x 8x0.2ml strip tubes; 96 x 0.2ml tubes
Programmable Temperature Range	4-99.9°C
Temperature Control	Calculated or block
Temperature Accuracy / Uniformity	±0.5°C / ±0.5°C
Heating / Cooling Method	Peltier
Maximum Heating / Cooling Rate	5°C / 3.5°C per second
Temperature Range of 6-Segment Blocks	30-99°C; temperature of each segment may be set independently
Maximum Temperature Difference Between 6-Segment Blocks	24°C
6-Segment Temperature Block Format	6 segments, each 4x4-well
Programmable Lid Temperature	60-65°C, 100-115°C
Memory	200 complete programmes
Temperature Increments / Decrements	Yes
Time Increments / Decrements	Yes

ORDERING INFORMATION

Cat. No.	Description
GTC96S	GTC96S thermal cycler with 96-well block, 240VAC
CSL-PCRKIT	PCR package includes GTC96S thermal cycler, MSMIDI96 96-well electrophoresis unit and nanoPAC-500 power supply
CSL-CLEANCAB	Complete PCR package with low cost clean room. Includes CSL-GTC96S, CSL-UVCAB, CV2, CV20, CV200, CV1000 and CV8-200 pipettes, MSMIDI96 and nanoPAC-500

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