

Gradient Thermal Cycler

The M2-96G gradient thermal cycler provides precise temperature control and an intelligent user operating system to achieve rapid and specific amplification of target DNA fragments. With temperature gradient function, 12 groups of gradient can be realized at one time to optimize PCR protocol.

It is widely used in molecular biology, microbiology, genetics, cell biology, food science and agronomy to carry out experimental research such as molecular cloning, gene expression analysis, genotype identification, sequencing, and pathogenic microorganism analysis.



Product Features

Intelligent and efficient linear gradient function

- 12 linear gradients in the same run allow to optimize the ideal annealing temperature.
- Temperature and time cycle can be incremented or decremented to realize different experiments like Touchdown PCR and Long PCR experiments.

Data visualization for easy operation

- 7 inch touch screen enables intuitive and quick programming.
- Personalized account management system provides organized programs and unwanted changes.

Fast ramping and precise temperature control

- Fast ramp rate of up to 6 °C/s to realize efficient PCR runs.
- Long-life Peltier elements for temperature accuracy and uniformity.

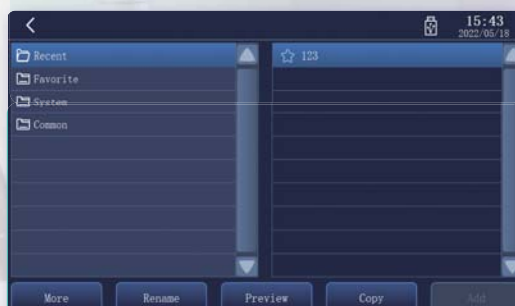
Thoughtful multifunctional design

- Processes can be imported and synchronized via USB ports and achieve multi-machine collaborative work.
- Capable for PCR experiments and constant temperature incubation function.



Technical Specifications

Description	M2-96G
Sample Capacity	96x0.2 ml/0.1ml tubes or 1x96-well plate
Reaction volume	10~80 μ L
Heating block	96-well
Temperature control range of the block	0~100°C
Gradient capability	Yes
Gradient range	30~100°C
Lid temperature range	40~100°C
Temperature accuracy	$\pm 0.25^{\circ}\text{C}$ (35~100°C)
Temperature Uniformity	$\leq \pm 0.35^{\circ}\text{C}$ (After reaching a constant temperature of 95°C for 20s)
Max. heating and cooling rate	6.0°C/s; 4.5°C/s
Average heating and cooling rate	4.5°C/s; 3.5°C/s
Display	7 inch LCD touch screen
Max. amount of storage	2000
Max. number of program cycles	99
Max. number of program steps	64
Inc/Dec temp input range	$\pm 0.1\sim 5^{\circ}\text{C}$
Inc/Dec time input range	$\pm 1\sim 240\text{s}$
Power-off protection	Yes
Interface	RS232、USB、Network port
Dimensions (W×D×H)	264mm×470mm×259mm
Weight	16.5kg
Power supply	220V/50HZ; 110V/60HZ
Max. power consumption	925W



Personalized account management system



Easy access to create a new protocol



Ordering information

Order no.	M2-96G
Description	96-well gradient thermal cycler

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