TC1000-G-Pro
Thermal Cycler Gradient

Temperature gradient

Excellent temperature uniformity

Elegant in design, precise and accurate, with high repeatability, specifically designed for PCR optimization, the TC1000-G/S/Pro Thermal Cycler supports Touchdown PCR and Long PCR experiments. It features advanced gradient temperature control technology and high-performance, durable Peltier heating and cooling, allowing for precise temperature control in different zones. Its edge temperature compensation technology ensures outstanding temperature uniformity. Through gradient settings, experimental conditions can be easily optimized. The TC1000-G/S/Pro gene amplifier is a fundamental instrument in molecular laboratories, widely used in gene detection, molecular cloning, gene expression, mutagenesis, and other tasks, involving fields such as drug discovery, agriculture, and the food industry.

LCD touch panel

Excellent temperature accuracy

Technical Parameters	TC1000-G-Pro
Sample Capacity	96×0.2mL PCR tube 12×0.2mL PCR-8 strips 0.2mL 96 PCR Microplate
Heating Temperature Range /℃	0-105
Lid Temperature Range /℃	30-115
Temperature Display Accuracy /℃	±0.1
Temperature Display Accuracy@55℃	±0.1
Temperature uniformity@55℃	±0.2
Max. Heating/Cooling Rate	5℃/Sec
Gradient Temperature Setting Range /℃	30-105
Gradient Range /℃	1-42, enter 0 to turn off the gradient.
Temperature control method	Block/Tube
Adapter block material	Aluminum
Display	7' LCD 1024×600
Input	Touch panel
Computer host system	Yes
Communication interface	USB、WIFI
User defined file system	20000+ (USB FLASH)
Power off protection	Yes
Voltage,Frequency	100~120V /200~240V,50/60HZ
Dimension[WxDxH]	280×370×250mm
Weight	9.5Kg

Features

- Featuring a brand-new UI user interface, the graphical menu is simple and easy to use, with a color touch panel that makes it easier for users to edit programs.
- It includes an automatic power-off protection feature that automatically completes unfinished cycles upon power restoration, ensuring the amplification process runs safely.
- The system supports Touchdown PCR (-9.9°C to +9.9°C) and Long PCR (-9min 59s to +9min 59s) experiments.
- The hot lid temperature and working mode can be set to meet various experimental needs, with the hot lid function automatically turning off when the heating module's temperature is below 30°C.
- A one-touch quick incubation feature is available to meet the needs of denaturation, enzyme digestion/ligation, ELISA, and other experiments.