

TC1000-G-Pro Thermal Cycler Gradient

Introduction

The TC1000-G-Pro is an essential laboratory instrument for molecular biology with applications such as sequencing, gene cloning, gene expression, mutagenesis, and it is also used in areas such as drug discovery, agriculture, food industry, etc.

Features

1. Elegant design, excellent precision and accurate, reproducible results and precise PCR optimization.
2. New UI user interface, easy to use graphical menu, color touch screen with user friendly interface helps to edit programs easily.
3. High performance with advanced thermal gradient technology, high performance Peltier and independent heating segments improving temperature control.
4. Auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity, gradient temperature setting optimizes temperature easily in the single run.
5. Real-time display of program progress and time remaining, set up user security accounts and passwords depending on customer needs.
6. One-click fast incubation function for denaturations Enzyme digestion/enzyme linkage, required for ELISA etc.
7. Power failure protection function, automatic program recovery, ensure safe operation of the entire amplification process.
8. Built-in WIFI module, connecting via LAN with a PC host computer, simultaneous control of multiple PCR instruments with one computer.
9. Hot lid temperature and hot lid operating mode can be set, meeting different experimental needs, if module temperature is lower than 30 °C, the hot lid function will automatically turn off.
10. USB interface, support for saving/retrieving PCR data on U disk, support for updating software on U disk and LAN, customisable programs, file customization, multi-file storage.
11. Wide touchdown PCR temperature range (-9.9°C~+9.9°C) and Long PCR time range (-9min 59s~+9min 59s).
12. Wide options of consumables: common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used.



Parameters

Model	TC1000-G-Pro
Sample Capacity	96×0.2mL PCR tubes 12×0.2mL PCR-8 strips 0.2mL 96 PCR Microplate
Heating Temperature Range /°C	0~105
Lid Temperature Range /°C	30~115
Temperature Display Accuracy /°C	0.1
Temperature Control Accuracy /°C	±0.1
Temperature Uniformity@35-72 /°C	±0.2
Max. Heating/Cooling Rate	5°C/Sec
Temperature Control Method	Block/Tube
Gradient Temperature Setting Range /°C	30~105
Gradient Range /°C	1 ~ 42°C, Turn off gradient on input 0
Adapter block material	Aluminum
Display	7" LCD 1024x600
Input	Touch panel
Number of program storage	20000+ (USB FLASH)
User defined file system	Max. 30 steps in a single program, 99 cycles
Program suspension function	Yes
Power failure protection	Yes
Computer uplink	Yes
Communication interface	USB2.0、WIFI
4°C Control	Unlimited time
Voltage, Frequency, Power	100~120V/200~240V, 50/60Hz 600W
Dimension[WxDxH]	280x370x250mm
Weight	9.5kg
Permissible ambient temperature and humidity	5~40°C, 80%RH