



Thermal Cycler

LTCG-32-101



Labocon Thermal Cycler Gradient LTCG-32 Series with gradient technology have block capacities of 3x32 well plates. It uses precise temperature control and rapid temperature changes to conduct the polymerase chain reaction. It has an advanced Peltier technology, LCD display and independent operation of dual modules for protocol optimization. A maximum of 10000 programs can be saved.

Features

- 6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
- Reinforced aluminium module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance.
- High heating and cooling rate, max. Ramping rate 4.5 °C/s, can save your precious time;
- 3 blocks independently controlled and can run 3 different PCR programs simultaneously.
- Step less adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation.
- Windows interface, 8" (800×600, 16 colours) TFT colour touch-screen with graphical display provides easy use for setting up and monitoring.
- Built-in 11 standard program file template, can quickly edit the required files.
- Folder management, user can build directory.
- The running program and left time can be displayed in real time, allow to edit file when program is running.
- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA.
- Internal flash memory for 10000 typical PCR files in free configurable folders.
- Hot lid temperature and hot lid work mode can be set to meet different experiment's need.
- Automatic restart after power failure. When power is restored it can continue to run unfinished program.
- GLP report records every step to provide accurate data support for experiment result analysis.
- User Login Management, three-tier permission, password protection function to ensure data security.
- Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive.
- Support USB and LAN to update software.
- One computer can control many sets of PCR via network connection.
- Min type Bluetooth printer as an option, easily record information.
- Support email-alert function when experiment is over.

Specification

Model	LTCG-32-101
Capacity	3×(32×0.2ml)
Temperature Range	0~100°C
Heating Rate	5°C/s
Cooling Rate	4°C/s
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Display Resolution	0.1°C
Temperature Control	Block\Tube
Ramping Rate Adjustable	0.1~5°C
Gradient Temp. Range	30~100°C
Gradient Spread	1~30°C
Hot Lid Temperature	30~110°C
Hot Lid Height Adjustable	Step less Adjustable
Number of Programs	10000+(USB FLASH)
Max. No. of Step	30
Max. No. of Cycle	100
Time Increment/Decrement	1 Sec~600 Sec
Temp. Increment/Decrement	0.1~10.0°C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4°C	Forever
Language	English
Print	Yes
LAN to computer	Yes
LCD	8 inch, 800×600 pixels, TFT
Communication	USB2.0, LAN
Dimensions	390x270x255 mm
Power	600 W
Power Supply	85~264VAC, 47~63Hz
Weight	9kg

Application

Labocon Thermal Cycler can be used for clinical diagnosis, DNA sequencing, gene manipulation, gene expression study, genomics comparative study and also in gene cloning experiment.