

Q3200 Real-Time PCR System

Description

Q3200 Real-Time PCR System is a portable fluorescence quantitative PCR instrument developed by Bio-Gener company. This product adopts four channel and double 16-well blocks, which can run two different files simultaneously. The product combines a variety of advanced technologies: 7-inch high-definition TFT color touch screen, win10 operating system with analysis software, complete quantitative analysis and printing report without computer. It adopts American Marlow custom-made peltier, high sensitivity photoelectric detector and side scan technology, to ensure superior performance and stable detection results.



Application

the product can be used for real-time detection in pasture, forest farm, breeding farm and water source. It is used for rapid diagnosis of disaster and epidemic disease, inspection and quarantine in the field of food safety, and scientific research in biological laboratories.

Features

- Small size, light weight, easy to carry.
- Four channel and double 16-well blocks design, can run two different programs at the same time.
- Electromagnetic lock cover prevents the hot lid from accidentally opening
- The software analysis function is powerful and can carry out a variety of experiments

Specification

Model	Q3202	Q3204	Q3202-F	Q3204-F
Sample Capacity	32 × 0.2ml(4 × 8well, dual block)			
Consumable	Clear 0.2 ml PCR tube /8-tube strips			
Reaction Volume	15–100 μl			
Temperature control technology	Marlow customized Peltier allow 1.000.000 cycles			
Temperature Range	0–100°C(Resolution:0.1°C)			
MAX. Ramp Rate	5°C/s	5°C/s	8°C/s	8°C/s
Temperature fluctuation	±0.1°C			
Uniformity	±0.25°C			
Accuracy	±0.25°C			
Hot Lid Temperature	30–110°C (Adjustable, default 105°C)			
Temperature Control	Block/Tube			
Excitation wavelength	460–550nm	460–628nm	460–550nm	460–628nm
Emission wavelength	F1: 520–540nm F2: 540–580nm	F1: 520–540nm F2: 540–580nm F3: 571–612nm F4: 628–692nm	F1: 520–540nm F2: 540–580nm	F1: 520–540nm F2: 540–580nm F3: 571–612nm F4: 628–692nm
Factory Calibrated Dyes	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET F3: ROX F4: CY5	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET F3: ROX F4: CY5
Excitation	Long life LED			
Detection	High sensitivity photoelectric detector			
Dynamic Range	1–10 ¹⁰ Copies			
Sensitivity	1 copy			
Feature function	Quantitative/qualitative analysis, Melting curve, Genotyping			
Date Export Formats	excel, csv, txt			
Printing	Report can be printed (optional USB thermal printer)			
Control Method	7 inch color TFT touch screen, Can be connected to computer control			
Communication	USB2.0			
Dimension	300x267x198mm(L x W x H)			
Net Weight	8KG	8KG	11KG	11KG
Voltage	220VAC、50Hz			
Power	DC15V 255W	DC15V 255W	DC29V 600W	DC29V 600W

