PRODUCT CATALOG

REAL-TIME THERMAL CYCLER BTHC-307

ISO9001 CERTIFIED

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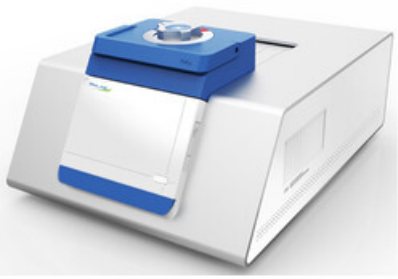
REAL-TIME THERMAL CYCLER BTHC-307

Real-time PCR has revolutionized the way clinical microbiology laboratories diagnose human pathogens. It delivers reliability, sensitivity, and accuracy, which is optimized to enable the broadest range of real time PCR applications. Features like compact size, individually programmed wells, heated lids to prevent condensation, higher throughput and software integration makes it an unique choice.
Used in Life Science, Animal Diagnostics, Incubation, Research, Development, Food Science, Pharmaceutical, Analytical Laboratories, Molecular biology, Gene amplification, Gene Expression.
Also known as Laboratory Mini PCR, Mini PCR Machine, Laboratory Mini PCR Machine.

BTHC-307 REAL-TIME THERMAL CYCLER



Four channel fluorescent detection system with LED light source and high resolution CCD

The optical system automatically collects data from all wells during data acquisition at the same time

It can discriminate up to five targets in a single reaction well

The optical filter sets are designed to maximize fluorescence detection for specific dyes in specific channels

Compatible with different reagent and consumables

Block utilizes most advanced Peltier-based technology with high amplification efficiency

Up to 6?/s maximum ramp rate saves your valuable time dramatically

Two independent temperature control mode- block and tube, maximize control flexibility

Excellent temperature uniformity limits the variation between wells, ensuring the accuracy of low copy sample

Manager Software accommodates individual needs with intuitive navigation and customizable settings

The software can be used for a variety of applications including absolute/relative quantification, melting curve (dissociation curve)

With integrated powerful visualization tools, the data is analyzed on machine directly

Advanced programming function like gradient and touch-down

The machine can be connected with PC through WI-FI or LAN

Software allows you to manage and monitor from your computer

Low noise, low energy consumption, long life-span

Chemistry-All real-time PCR-based chemistries. Flexibility for chemistries with or without passive reference dye

SPECIFICATIONS

Model	BTHC-307
Temperature Range	0°C-100°C
Max. ramp rate	6°C
Channel	4
Reactions per run	96
Reaction volume	15µl-100µl
Block Formats	96-well 0.2 ml
Block Material	Peltier
Detection filters/colors	Channel 1- 525nm, Channel 2- 570nm, Channel 3- 610nm, Channel 4- 678nm
Excitation filters/colors	Channel 1: 470 nm Channel 2: 525 nm Channel 3: 585 nm Channel 4: 610 nm

Uniformity	±0.4°C (10 sec after reaching 95°C) ±0.2°C (10 sec after reaching 55°C)
Accuracy	≤±0.1°C
Gradient Temp Range	30°C~100°C
Sensitivity	Down to 1 copy
Color Combinations	Up to 5
Light Source	High brightness monochrome LED
Detector	Highly sensitive cold light CCD
Detection dynamic range	10^2-10^10
Kits & Reagent	Channel 1: FAM / SYBR Channel 2: VIC / HEX / JOE / TET / TAMRA Channel 3: ROX / TEXRAD Channel 4: CY5
Network	LAN / WIFI
Multiple control	Support
PC Operation system	WindowsXP / VISTA / Windows7 / Window8
CPU	A8
Operation system	linus
Communication	LAN/Wi-Fi
Dimension (LxWxH)	592x440x280 mm
Package dimension(LxWxH)	840x710x530 mm
Net Weight	28.7 Kg
Gross Weight	60 Kg
Power Supply	Standard configuration 220V/50HZ

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