bioPerfectus technologies

# Bioperfectus

# STC-96A PLUS REAL-TIME PCR SYSTEM

- Exclusive efficiency and flexibility
- O Precise temperature control
- O Accurate results in fast speed
- O No crosstalk calibration needed
- O Quality Commitment







#### STC-96A PLUS REAL-TIME PCR SYSTEM

# Exclusive efficiency and flexibility

Innovative dual 48/48 reaction blocks to be controlled separately for two different assays running simultaneously on one instrument



#### Accurate results in fast speed

A super-fast heating/cooling rate of up to 4.0°C/sec





#### **Quality Commitment**

18-month warranty, long-lasting and maintenance-free LEDs applied

#### Precise temperature control

Well-to-well uniformity with an accuracy of 0.1°C





#### No crosstalk calibration needed

Professional optical filter combinations eliminate crosstalk between FAM, HEX, ROX and CY5 channels





The Bioperfectus STC-96A Plus Real-Time PCR system is a more-than-ever flexible, efficient and reliable breakthrough in the real-time PCR analysis of gene expression and genetic variation. You now can apply TWO different PCR assays on just one instrument with separate-controlled programs.

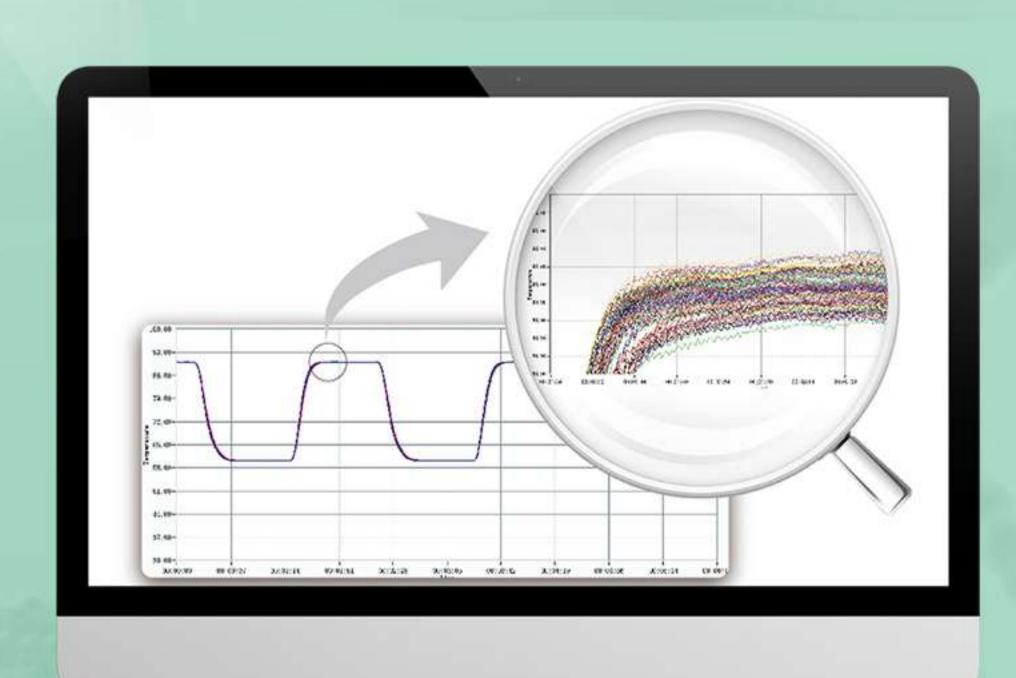
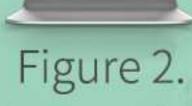




Figure 1.

Partial enlarged plot of STC 96A Plus's temperature curve shows temperature uniformity cross 96 wells within 0.05 °C



STC-96A Plus multi-tasking software interface (analysis screen)

Yet the STC-96A Plus temperature uniformity across 96 wells is within a remarkable 0.1°C, which meets all your needs for highly precise diagnostic and study use, including High-Resolution Melting Curve (HRM) applications.



### • TECHNICAL SPECIFICATIONS

STC-96A PLUS Model

Sample capacity 96 wells (dual 48/48 reaction module)

Parallel running mode Dual Reaction blocks/running 2 tests independently

15-100 μL Reaction volumes

> 0.2 ml PCR tubes, 8-tube strips, 48-well plates Consumable

Run time <50 mins

Temperature range 4-99 °C

> Max ramp rate 4.0 °C/sec

Temperature accuracy and uniformity 0.1 °C

> Heating and cooling method Peltier

Temperature control mode Tube control/block control

> LED (maintenance-free) **Excitation Source**

> > High sensitivity photoelectric sensor Detector

Sensitivity 1 copy

Reproducibility CV<0.5%

Dynamic range 10° - 10¹¹ copies/well detectable

Excitation range CH1-CH4: 470-630 nm; CH5/CH6: customer-made

Detection range CH1-CH4: 510-665 nm; CH5/CH6: customer-made

FAM™/SYBR Green®; VIC®/HEX™/JOE™/TET™; ROX™/Texas Red®; CY5™ Dyes and probes

Dimensions (W×D×H)  $38 \text{ cm} \times 52 \text{ cm} \times 25 \text{ cm}$ 

> Weight 18 kg (40 lbs)

Computer Pentium PC with Windows XP, Vista or Windows 7/8

RS232, USB Communication

230 V, 50 Hz Power Supply

Power Consumption 850 VA

#### • PACKAGING

CATALOG	PRODUCT	PACKAGE
STC-96A PLUS	STC-96A PLUS Real-Time PCR System	1 Unit

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#### AUTHORIZED DISTRIBUTOR









