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Bioperfectus

STC-96A PLUS REAL-TIME PCR SYSTEM

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



CE

IVD

bioPerfectus technologies
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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

Quality Commitment

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

No crosstalk calibration needed

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

Precise temperature control

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

Accurate results in fast speed

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

STC-96A PLUS FEATURES



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



Figure 2.

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

Model	STC-96A PLUS
Sample capacity	96 wells (dual 48/48 reaction module)
Parallel running mode	Dual Reaction blocks/running 2 tests independently
Reaction volumes	15-100 µL
Consumable	0.2 ml PCR tubes, 8-tube strips, 48-well plates
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
Excitation Source	LED (maintenance-free)
Detector	High sensitivity photoelectric sensor
Sensitivity	1 copy
Reproducibility	CV<0.5%
Dynamic range	10 ⁰ - 10 ¹⁰ 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
Dyes and probes	FAM™/SYBR Green®; VIC®/HEX™/JOE™/TET™; ROX™/Texas Red®; CY5™
Dimensions (W×D×H)	38 cm×52 cm×25 cm
Weight	18 kg (40 lbs)
Computer	Pentium PC with Windows XP, Vista or Windows 7/8
Communication	RS232, USB
Power Supply	230 V, 50 Hz
Power Consumption	850 VA

◉ PACKAGING

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

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