



Aeris™

Thermal Cyclers

The Aeris™ Thermal Cycler is an ideal multifunction PCR amplification system that provides real flexibility and reliability at an affordable price.

Key Benefits



- Saves time when programming with the intuitive color touch screen

- Keeps the latest operation records, which deliver the proven reliability of PCR results
- Durable design to guarantee longer instrument lifetime
- Tm calculator for optimized primer temperature
- Extensive applications for researchers to do 'Long PCR' and 'Nested PCR'
- Hot lid temperature adjustment to secure the temperature control on the block and to prevent condensation and water evaporation on the hot lid itself
- Better performance with temperature accuracy



Model Available

5 Interchangeable Blocks

AERIS-BG096

Aeris™ Thermal Cycler Gradient Block (96x0.2ml)

AERIS-B4830 Aeris™

Thermal Cycler Combined Block (48x0.2ml+30x0.5ml)

AERIS-BG384 Aeris™

Thermal Cycler Gradient Block (384 wells)

AERIS-BD048 Aeris™

Thermal Cycler Dual Block (48x0.2ml)

AERIS-B4076 Aeris™

Thermal Cycler (4 slides in situ)

Advantages of the Aeris™ Thermal Cycler Over Esco 1

st- and 2 nd- generation PCR

More Efficient

- Best uniformity ($\leq 0.2^{\circ}\text{C}$) and accuracy ($\leq 0.1^{\circ}\text{C}$) ensure reliability and excellent performance.
- With the intuitive color touch screen, program setting becomes easier and faster with available functions to define different applications.
- Self-testing provides more detailed information, like different sensors and heating and cooling status. This ensures reliable performance before actual run in 3 minutes.
- Shortcuts store regular programs that speed up the setting time.

Better Performance

- Allows running of 'Long PCR,' a new technique that applies to amplification of PCR. It is also able to run 'Nested PCR,' which allows users to have two pairs of PCR primers to reduce the contamination in products due to the amplification of unexpected primer binding sites.

- Temperature uniformity of $\pm 0.1^{\circ}\text{C}$.
- Pause function with timer can easily be set manually.
- Suitable for many series of reagents and consumables, which simplifies experiments.

User-Friendly

- Three language choices (English, Chinese and Spanish) on the control system make for easy use by operators worldwide.
- Adjustable backlight for operator comfort also makes the unit suitable for different working environments.
- User log can store information for up to 20 experiments, which includes time and date, duration, program resuming time, power interruption, and program status. End-users can make sure the test result is valid before doing the end point analysis.

General Specifications, Aeris™ Thermal Cycler

Model Code	AERIS-BG096	AERIS-B4830	AERIS-BG384	AERIS-BD048	AERIS-B4076
Sample Capacity	96X0.2ml	48x0.2ml+30x0.5ml	384 wells	48x0.2ml+48x0.2ml	4 slides in situ
Application Consumables	0.2ml tubes 96 well microplates 12x8 strips 8x12 strips	0.2ml tubes 0.5ml tubes 4x12 strips	384-well microplates	0.2ml tubes 6x8 strips	4 slides in situ
Max. Heating Rate	4.0°C/sec	2.8°C/sec	2.8°C/sec	4.0°C/sec	1.8°C/sec
Max. Cooling Rate	4.0°C/sec	2.8°C/sec	2.8°C/sec	4.0°C/sec	1.8°C/sec
Gradient Capability	Yes	-	Yes	-	-
Gradient Range	30-105°C	-	30-105°C	-	-
Maximum Gradient	1-30°C	-	1-30°C	-	-

Temperature Control Mode	Tube or Block	Auto Re-start on Power Failure	Yes
Temperature Range	4-105 °C	Connection to PC Control	Yes
Over-Temperature Cutout	Yes	Software	AerisLine™
Number of Programs	Up to 250 programs, unlimited with USB	Pre-Run Sample Cooling	Yes, 4°C
Maximum Hold Time	59mins and 59secs	Language	English, Chinese, Spanish
Temperature Accuracy	$\leq \pm 0.1^{\circ}\text{C}$ below 50°C	USB	Yes
Temperature Uniformity	$\leq \pm 0.2^{\circ}\text{C}$	Display	6.5" Color LCD Touch Screen
PCR Volume Range	10-100 µl	Dimensions	306x386x295mm(12"x15"x11.6")
Tm Calculator	Auto	Weight	10kg
Extensive Experiment Application	Option setting for time up/down is between 0 and 9m59s, which is suitable for Long PCR Temperature up/down is between 0.1°C and 9.9°C, suitable for Touchdown PCR	Power	100-240V 50-60Hz

ESCO
WORLD CLASS. WORLDWIDE.



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