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ABI Geneamp PCR System 9700

Applied Biosystems GeneAmp 9700 96 well (.2ml) Thermal Cycler

- Interchangeable sample block modules for greater flexibility
- Compact design to maximize bench space
- Graphical user interface enables simple programming

Applied Biosystems has developed an extensive family of removable sample block modules for the GeneAmp® PCR System 9700. These sample block modules deliver built-in flexibility for various PCR and cycle sequencing applications. The latest addition is the 96-Well module, which is offered to increase thermal cycling capacity while maintaining a 96-well, 0.2 mL format. This sample block module can be ordered with the 9700 base to provide a complete GeneAmp® PCR System 9700. The 96-Well GeneAmp® PCR System 9700 contains two sample blocks, each of which holds a maximum of 96 sample wells. Fully loaded, the instrument accommodates up to 192 samples per run. The system can also be used with a single 96-well plate for smaller runs.

96-Well Options

A complete system includes one base module and one sample block module. A variety of other sample block modules can also be purchased separately.

The 96-well system is manufactured with an easy-to-use graphical user interface and programming software for application protocols. System 9700 Networking Software allows a central PC to control up to 31 instruments, further automating the PCR and cycle sequencing processes.

Sample Block Module

The sample block module consists of a heated lid and sample well block with 96 sample wells (0.2 mL each).

Plate Ejection System

The 96-Well sample block module features a unique plate ejection system. When cycling is complete and the heated lid is open, this system allows for easy access and removal of each 96-well plate from the sample block.

Reagents and Consumables

A complete line of reagents and disposables is available for use with the 96-Well GeneAmp PCR System 9700 platform.

Uniformity

The 96-well sample blocks are specified at $\pm 0.5^{\circ}\text{C}$, measured 30 seconds after clock start at 95°C . Together, the two well blocks have a combined uniformity of $\pm 0.75^{\circ}\text{C}$, measured 30 seconds after clock start at 95°C .

Specification Sheet

Accuracy $\pm 0.25^{\circ}\text{C}$ over the temperature range $35 - 100^{\circ}\text{C}$

Temperature Range $4.0 - 99.9^{\circ}\text{C}$

Average Heating Rate (Sample) $1^{\circ}\text{C}/\text{second}$

Average Cooling Rate (Sample) $1.5^{\circ}\text{C}/\text{second}$

Cycle Time for BigDye® Terminator Chemistry Using the Following Protocol

- 96°C for 10 seconds
- 50°C for 10 seconds
- 60°C for 4 minutes
- 25 cycles take approximately 2.5 hours

Weights

- 96-Well Sample Block Module: 6.6 kg (14.5 lb)
- Base Module: 8.7 kg (14.5 lb)

Dimensions with sample block installed:

- Height: 26 cm (10 in.)
- Width: 30 cm (12 in.)
- Depth: 52 cm (20.5 in.)

Sample Blocks Description

The 96-Well GeneAmp® PCR System 9700 can now be used with Gold-plated Silver and Aluminum Sample Blocks Modules. The aluminum block has been designed for routine use of PCR reactions and cycle sequencing in a conventional 8 X 12 well format. This allows the 96-well 9700 system to be used in 9600 emulation mode and standard mode.

The gold-plated silver sample block has been engineered for maximum performance and durability, utilizing a rapid heat transfer design of electroformed silver to maximize heating/cooling rates and goldplating for maximum durability. This allows the gold-plated silver 96-well 9700 system to be used in MAX Mode (5°C/sec average heating/cooling of block) and 9600 emulation mode.

Key Features

- Interchangeable sample block modules for greater flexibility.
- Gold-plated silver blocks for high speed -5°C/sec average heating/cooling rate of block.
- Aluminum sample blocks designed for routine PCR and cycle sequencing.
- Gold-plated silver block provides maximum durability



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