High-Throughput Dual 96-Well Thermal Cycling System

- **Two 96-well sample blocks for high-throughput**
- **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 Dual 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 Dual 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.

Dual 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 Dual 96-Well GeneAmp® PCR System 9700 is a complete system that includes the base and sample block module.

The Dual 96-Well Sample Block Module is a separate module that can be added to an existing System 9700 base module.

Instrument Operation

The dual 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 two aluminum sample well blocks, each with 96 sample wells (0.2 mL each).

Plate Ejection System

The Dual 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 Dual 96-Well GeneAmp PCR System 9700 platform.

Uniformity

The 96-well sample blocks are specified at ±0.5°C, measured 30 seconds after clock start at 95°C. Together, the two well blocks have a combined uniformity of ±0.75°C, measured 30 seconds after clock start at 95°C.

Accuracy
±0.25°C over the temperature range 35–100°C

Temperature Range
4.0–99.9°C

Average Heating Rate (Sample)
1°C/second

Average Cooling Rate (Sample)
1.5°C/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
Dual 96-Well Sample Block Module: 6.6 kg (14.5 lb)

Base Module: 8.7 kg (14.5 lb)

Dimensions
Dimensions with sample block installed:
Height: 26 cm (10 in.)
Width: 30 cm (12 in.)
Depth: 52 cm (20.5 in.)

UL and CE Approved
UL 3101-1 and EN 61010-1
CSA 1010-1 and EN 61326

Ordering Information

Product Description	P/N
Complete System*	
Dual 96-Well GeneAmp® PCR System 9700	4343176
Sample Block Module Only	
Dual 96-Well Sample Block Module	4342718

**Includes base, sample block module and consumables starter kit*

iScience™

iScience. To better understand the complex interaction of biological systems, life scientists are developing revolutionary approaches to discovery that unite technology, informatics, and traditional laboratory research. In partnership with our customers, Applied Biosystems provides the innovative products, services, and knowledge resources that make this new, **Integrated Science** possible.

Worldwide Sales Offices
Applied Biosystems vast distribution and service network, composed of highly trained support and applications personnel, reaches 150 countries on six continents. For international office locations, please call the division headquarters or refer to our Web site at **www.appliedbiosystems.com**

Applera is committed to providing the world's leading technology and information for life scientists. Applera Corporation consists of the Applied Biosystems and Celera Genomics businesses.

Headquarters
850 Lincoln Centre Drive
Foster City, CA 94404 USA
Phone: 650.638.5800
Toll Free: 800.345.5224
Fax: 650.638.5884

For Research Use Only.
Not for use in diagnostic procedures.

Authorized Thermal Cycler
This GeneAmp® PCR System 9700 Base Unit in combination with its immediately attached sample block modules, comprise an instrument that is an Authorized Thermal Cycler. The purchase price of this Base Unit includes the up-front fee component of a license under United States Patent Nos. 4,683,195, 4,683,202 and 4,965,188, owned by Roche Molecular Systems, Inc., and under corresponding claims in patents outside the United States, owned by F. Hoffmann-La Roche Ltd, covering the Polymerase Chain Reaction (PCR) process to practice the PCR process for internal research and development using this instrument. The running royalty component of that license may be purchased from Applied Biosystems or obtained by purchasing Authorized Reagents. This instrument is also an Authorized Thermal Cycler for use with applications licenses available from Applied Biosystems. Its use with Authorized Reagents also provides a limited PCR license in accordance with the label rights accompanying such reagents. Purchase of this product does not itself convey to the purchaser a complete license or right to perform the PCR process. Further information on purchasing licenses to practice the PCR process may be obtained by contacting the Director of Licensing at Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

Printed in the USA, 08/04
P+s, Publication 104SP03-02

Applied Biosystems