

The GeneAmp® PCR System 9700

Applied
Biosystems

Results you can trust. A PCR
platform you can grow with.



GeneAmp®
PCR System 9700

The GeneAmp® PCR System 9700 fits your lab bench, your applications— and your budget.

The GeneAmp PCR System 9700 offers a full selection of modular options and gold standard chemistries matched exactly to your application. The 9700 system provides the high-end performance you need, easily adapts to meet your lab's changing PCR needs, and helps you stay within your budget.



The GeneAmp® PCR System 9700 is an ultra-reliable, highly versatile thermal cycler designed for medium to high throughput DNA and RNA applications.

The versatile, easy-to-use 9700 PCR system delivers the proven performance and reliability of earlier generation Applied Biosystems 9600 and 2400 GeneAmp instruments, and is fully compatible with methods developed on these systems. But the 9700 system's modular design gives you a whole new level of versatility and ease-of-use.

Interchangeable sample blocks let you quickly change throughput and well volumes to match your applications. An intuitive graphical user interface with comprehensive programming features and real-time display makes your protocol setup fast and easy, and precision-engineered sample blocks and Applied Biosystems MicroAmp® disposables ensure optimal thermal response and reproducibility. You can also add networking and data management capabilities, validation options, such as the temperature verification plate, and an automation-compatible plate ejection system.



Easily interchangeable sample blocks let you configure the GeneAmp® PCR System 9700 for a wide range of PCR and cycle sequencing methods.

The world's most trusted PCR solutions.

Around the world, in labs of all sizes, more researchers count on Applied Biosystems for the quality and consistency of their PCR results. All that experience—millions of reactions a day—adds up to confidence, whether you're doing a few samples, or a few thousand.

The tradition of quality and performance that began with our first TC1 thermal cycler in 1988 continues today with the versatile, reliable Applied Biosystems GeneAmp PCR System 9700.

Exceptional Value

Industry-leading reliability and performance, at a price your lab can afford.

Interchangeable Sample Blocks

Modular, easily changeable sample blocks allow you to configure a system to exactly meet your research needs—today and tomorrow.

Outstanding Thermal Performance

Precise, uniform heating and cooling assures superior reproducibility and highest quality results.

Easy, Intuitive Setup and Operation

Powerful software is easy to learn and easy to use, even for new operators.

Small Footprint

Compact size conserves valuable bench space.

Authorized for PCR

The GeneAmp PCR System 9700 is an Authorized Thermal Cycler for PCR.

Qualified Service

A number of worldwide support and service plans are available.

Performance you can depend on, sample after sample and year after year.

Designed for trouble-free, long-life operation even in the most rigorous environments, the GeneAmp® PCR System 9700 delivers superior thermal response and exceptional uniformity for all your PCR and cycle sequencing protocols. The result is outstanding reproducibility—well-to-well, sample-to-sample, and instrument-to-instrument. Precision-engineered sample blocks are calibrated to NIST* standards, and a heated lid ensures uniform heat distribution to each sample, and provides true oil-free operation.

Configure—or reconfigure—a system to meet your exact research needs.

The GeneAmp PCR System 9700 offers interchangeable sample blocks in a variety of well formats and materials to accommodate a wide range of applications.

Standard GeneAmp PCR System 9700 sample blocks are made of aluminum and engineered to emulate the ramp rates and protocols used in the GeneAmp PCR System 9600. Where extra performance is required in a single 96-well format, a corrosion-free gold-plated silver block enables block heating and cooling speeds of up to 5.0°C/sec. For volumes up to 100 µL, these faster heating and cooling rates provide significantly shorter cycle times.

Choose from the following sample block formats, depending on your research needs.



**60-well,
0.5 mL tube**



**96-well,
0.2 mL tube**



**Dual 96-well,
0.2 mL tube**



**Dual 384-well,
0.02 mL tube**



**Auto-Lid Dual 384-well,
0.02 mL tube**

GeneAmp PCR System 9700 Configurations

Format	60-Well	96-Well	Dual 96-Well	Dual 384-Well
Sample Block	0.5 mL aluminum	0.2 mL aluminum, silver, or gold-plated silver	0.2 mL aluminum (2 x 96-well)	0.02 mL aluminum (2 x 384-well)
Function	Larger post-PCR volumes	Most flexible research format	Medium/high throughput PCR	High throughput, low sample volume
Features	Supports 0.5 mL thin-walled tubes for better heat transfer and more efficient cycling	Standard 0.2 mL format and sample block options provide enhanced performance and durability	High throughput dual 96-well sample blocks enable 192 samples per run	High throughput dual 384-well sample blocks enable 768 samples per run, optional auto-lid
Temperature Accuracy	±0.25°C (35°C – 99.9°C)			
Temperature Range	4.0°C to 99.9°C			
Dimensions	Height: 26 cm (10 in.) Width: 30 cm (12 in.) Depth: 40.6 cm (16 in.)		Height: 26 cm (10 in.) Width: 30 cm (12 in.) Depth: 52 cm (20.5 in.)	

Thermal Cycling Speed

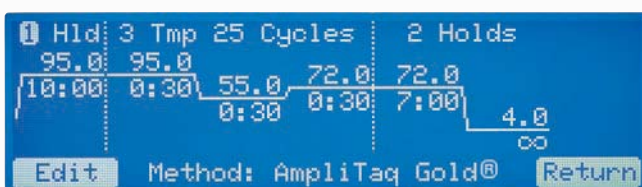
	60-Well/Thin-Wall Sample Temp Control Mode	Aluminum 96-Well/Standard Mode	Silver or Gold 96-Well MAX Mode	Dual 96-Well	Dual 384-Well
AmpliAq Gold® Protocol 95°/5 min hold 35 cycles: 95°/15 sec 55°/15 sec 72°/30 sec 72°/2 min hold	1 hr 28 min	1 hr 37 min	1 hr 12 min	1 hr 36 min	1 hr 46 min
BigDye® v3.1 Cycle Sequencing Protocol 96°/1 min hold 25 cycles: 96°/10 sec 50°/5 sec 60°/4 min	2 hr 22 min	2 hr 16	2 hr 12 min	2 hr 30 min	2 hr 28 min

Easy to use, and easy to rely on.

With straightforward, intuitive setup and methods development, real-time status reporting, detailed history files, and seamless networkability, the GeneAmp® PCR System 9700 fits right into your lab, and your research workflow.

Fast, simple methods development.

There are no special commands to learn or arcane operations to remember. Just enter the time and temperature for each step, and the total number of cycles. As your method is entered, the GeneAmp PCR System 9700 automatically builds it for you and displays the profile you've created. For difficult templates, the built-in T_m calculator function will ease the design of your PCR methods. Up to 100 methods can be stored in memory and sorted by date, name, or size, so you can locate the protocols you need in an instant.



Time and temperature profiles show up clearly on the backlit display as you program them. While your method is running, you can track its progress in real time.

A memory for details.

The GeneAmp PCR System 9700 features built-in diagnostics, validation tools, and back-up systems to safeguard your samples and your data. A complete, auditable history file is recorded for each run for future reference; time-and-date stamps make it easy to track runs. And during operation, comprehensive diagnostic messages keep you informed about system status and the progress of your run.

To protect your work in the event of a power failure, the GeneAmp PCR System 9700 software gives you a choice of options: terminate the run and have the system hold your samples at preset incubation temperature after power has resumed; continue the run from where it left off after power is resumed; or, continue the run only if the duration of the power failure is less than a preset interval. In all cases, your method will be saved intact, with a history file recording all steps completed.

Run your existing protocols, and easily transfer methods between systems.

The GeneAmp PCR System 9700 software allows you to duplicate protocols developed on the GeneAmp PCR System 9600. A standard PCMCIA card, as well as a powerful networking software option, makes it easy to share methods with other 9700 systems in your lab, or throughout your organization.



The 9700 system's networking software option lets you control, program, and monitor up to 31 thermal cyclers from a single station.

Your single source for guaranteed PCR performance.

As the leader in PCR thermal cycling, Applied Biosystems is committed to providing complete, integrated systems that deliver exceptional performance, value, and long-term reliability. We offer the industry's most complete line of thermal cyclers and real-time PCR systems, trusted AmpliTaq Gold®, GeneAmp®, and TaqMan®, reagents, and a full line of performance-assured consumables. They're all backed by our worldwide, world-class PCR technical support team, as well as an extensive educational program that includes customer training, seminars, and user groups. Furthermore, a number of regional worldwide support and service programs are available to maintain your instrument's performance.

Need help? Just ask, and we'll help you refine the PCR process, optimize protocols, and achieve the results you need to advance your research.

