

## 技术参数

PCR 仪	C1000™
底座	5°C/秒
最大升降温速度	Peltier
加热/冷却技术	最高 105°C
热盖温度	0—100°C
温度范围	±0.2°C, 90°C 时
温度准确性	±0.4°C 10 秒内达到 90°C
温度均一性	30—100°C
温度梯度范围	1—24°C
温度梯度温差	
光学检测	
激发	6 个带滤光片的 LED
检测	6 个带滤光片的光敏二极管
激发光/发射光波长范围	450—730 nm
灵敏度	1 个拷贝人基因组基因
动态范围	10 个数量级
扫描时间	
全部通道	12 秒
FAM/SYBR Green 通道	3 秒
CFX Manager™ 软件	
操作系统	Windows XP, Windows Vista, Windows 7
内存	至少 1GB
多重分析	每孔最多 5 个目的基因
数据分析模式	标准曲线定量 熔点曲线 C <sub>t</sub> 或 ΔΔC <sub>t</sub> 基因表达分析 多内参基因分析和扩增效率计算 多个数据文件的基因表达分析 等位基因分析 终点分析
数据导出	下拉式菜单可以直接保存、拷贝和打印图形和表格或导出为 Excel、Word 或 PowerPoint。用户报告包含运行设置、图形和表格数据结果，可直接打印或保存为 PDF。
中文软件	使用中文密码狗。就直接将软件转化成中文系统
实时荧光定量 PCR 许可	有
样品容量	96 孔
样品体积	1—50 μl
接口	USB 2.0
电气认证	IEC, CE
体积 (W x D x H)	33 x 46 x 36 cm
重量	21 kg (47 lb)

## 订货信息

Catalog #	Description
184-1000	<b>C1000™ Thermal Cycler Chassis</b> , includes USB flash drive, power cord, instructions; does not include reaction module
184-5096	<b>CFX96™ Optical Reaction Module</b> , includes CFX Manager™ software, license for qbase™ software, communication cable, reagent and consumable samples, instructions
185-5095	<b>CFX96™ Real-Time PCR Detection System</b> , includes C1000™ thermal cycler chassis, CFX96™ optical reaction module, CFX Manager™ software, license for qbase™ software, communication cable, power cord, consumable samples, instructions
184-5001	<b>CFX Manager™ Software, Security Edition</b> , includes 1 user license, installation CD, HASP HL key, instructions
184-5025	<b>Precision Melt Analysis Software</b> , includes 2 user licenses, installation CD, 2 HASP HL keys, calibration kit, instructions
184-5008	<b>CFX Manager™ Software, Chinese Edition</b> , includes 3 user licenses, installation CD, 3 HASP HL keys, instructions
184-5072	<b>CFX Automation System</b> , includes robotic plate handler, base tray, bar code scanner, CFX automation control software CD, instruction manual
172-5200	<b>SsoFast™ EvaGreen Supermix</b> , 200 x 20 μl reactions, 2x mix contains dNTPs, Sso7d fusion polymerase, MgCl <sub>2</sub> , EvaGreen dye, stabilizers
170-8890	<b>iScript™ cDNA Synthesis Kit</b> , 25 x 20 μl reactions, includes 5x iScript™ reaction mix, iScript™ reverse transcriptase, nuclease-free water
172-5848	<b>iQ™ Multiplex Powermix</b> , 50 x 50 μl reactions, 2x mix contains dNTPs, 11 mM MgCl <sub>2</sub> , iTaq™ DNA polymerase, stabilizers

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Practice of the patented 5' Nuclease Process requires a license from Applied Biosystems. The purchase of these products includes an immunity from suit under patents specified in the product insert to use only the amount purchased for the purchaser's own internal research when used with the separate purchase of Licensed Probe. No other patent rights are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained from the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

Purchase of this instrument conveys a limited non-transferable immunity from suit for the purchaser's own internal research and development and for use in human in vitro diagnostics and all other applied fields under one or more of U.S. Patents 5,656,493, 5,333,675, 5,475,610 (claims 1, 44, 158, 160-163 and 167 only), and 6,703,236 (claims 1-7 only), or corresponding claims in their non-U.S. counterparts, owned by Applera Corporation. No right is conveyed expressly, by implication or by estoppel under any other patent claim, such as claims to apparatus, reagents, kits, or methods such as 5' nuclease methods. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

Bio-Rad's real-time thermal cyclers are licensed real-time thermal cyclers under Applera's United States Patent 6,814,934 B1 for use in research, human in vitro diagnostics, and all other fields except veterinary diagnostics.

Bio-Rad's thermal cyclers and real-time thermal cyclers are covered by one or more of the following U.S. patents or their foreign counterparts owned by Eppendorf AG: U.S. Patent Nos. 6,767,512 and 7,074,367.

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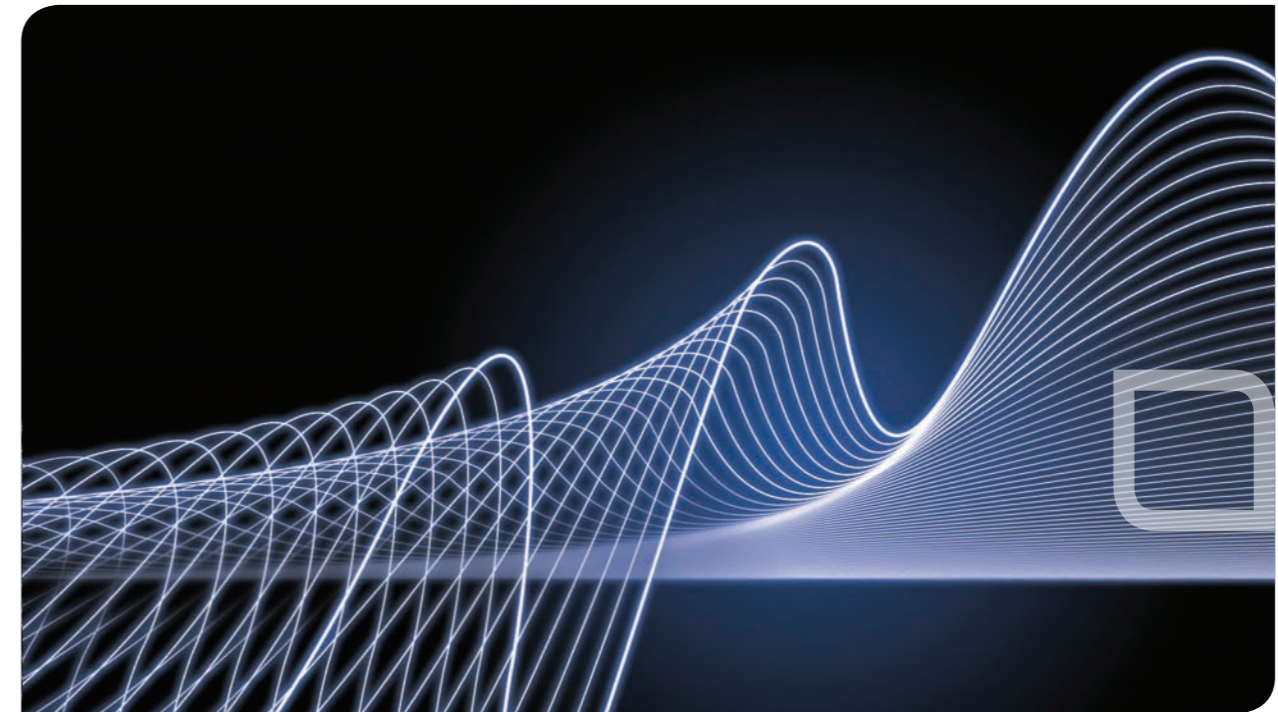
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**BIO-RAD**

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## CFX96™ 实时荧光定量 PCR 仪

分子诊断快速、高通量检测平台

**BIO-RAD**

# CFX96™ 实时荧光定量 PCR 仪 — 专属于你的检测而设计

Bio-Rad 的普通 PCR 仪和实时荧光定量 PCR 仪是世界上最早的生产商之一，二十多年来，在不同的行业中拥有大量的用户，为各类的科学研究与医学检测提供了有力的保障。

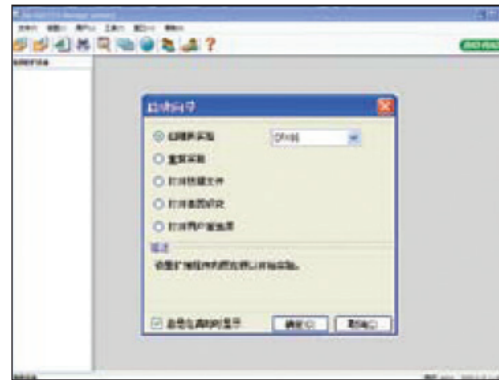
CFX96 实时荧光定量 PCR 仪能满足所有的临床检测需求，无论是复杂的、高通量的、多靶标的样品同时检测，还是耐药基因、遗传基因的突变等分析。

CFX96 实时荧光定量 PCR 仪主要特点：

- 出厂校正的固定光学系统，即插即用
- 快速 PCR 仪，缩短运行时间
- 真正的 5 通道多重检测
- 提供 LIMS 的数据导出，便于医院报告系统
- Precision Melt Analysis™ 软件，可以进行 HRM 分析
- 原厂的专业中文软件

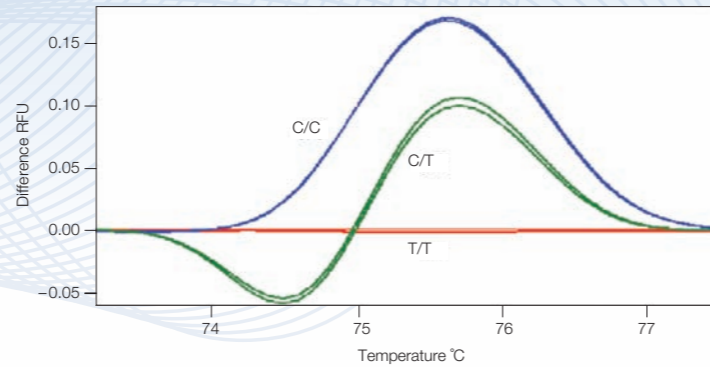
## CFX Manager™ 软件中文版

用于 CFX96 实时荧光定量 PCR 仪的 CFX Manager 软件，Bio-Rad 公司为中国用户提供了专业的中文软件。



## 高分辨熔解曲线 (HRM) 功能

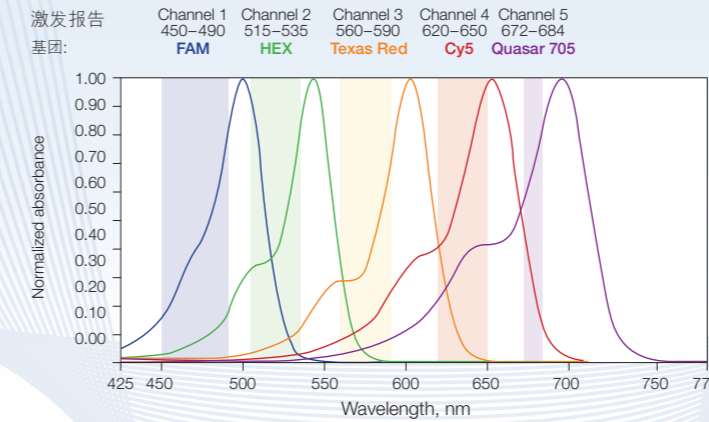
高分辨熔解曲线 (HRM) 由于其高特异性、高灵敏度的特点，成为在基因组水平上进行突变筛查、甲基化研究和基因分型的主要方法之一。Bio-Rad 提供的 Precision Melt Analysis 软件可以进行基因分型分析。



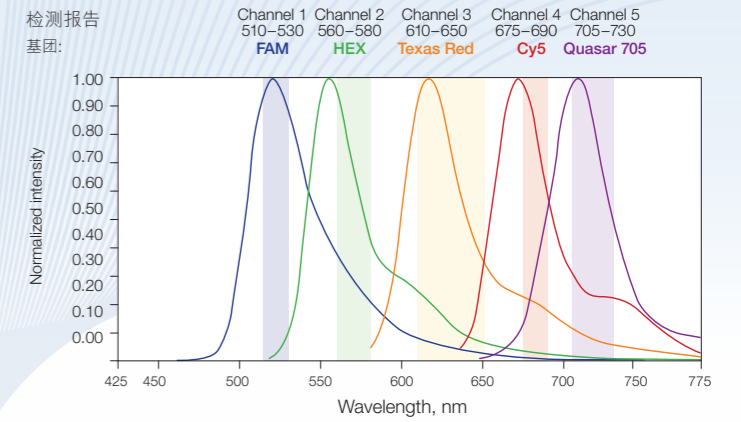
# 创新的光学系统设计

## 一体化光梭，真正5通道检测

CFX96 光学检测系统使用的一体化的光梭，即6个带滤光片的LED和6个带滤光片的光敏二极管，检测灵敏度高；能够在同一个反应管中同时检测5个目的基因；第6通道用于FRET检测，光程固定，无需采集背景荧光来校正。



CFX96 实时荧光定量 PCR 仪的 5 个激发和检测波长范围

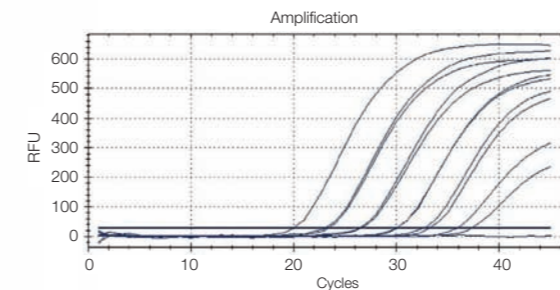


# CFX96 临床应用

CFX96™ 在临床应用中，为各类的检测试剂提供了优异的硬件和软件的保障：

- 仪器杰出的温度准确性、均一性，使 PCR 扩增的特异性、重复性得到最好的表现
- 创新型的一体化光学设计，帮助荧光检测的灵敏度大大提高
- 便捷的软件，同时看到实验的多种分析结果，还提供连接 LIMS 的数据
- 提供 HRM 软件，提高对突变体的检测率

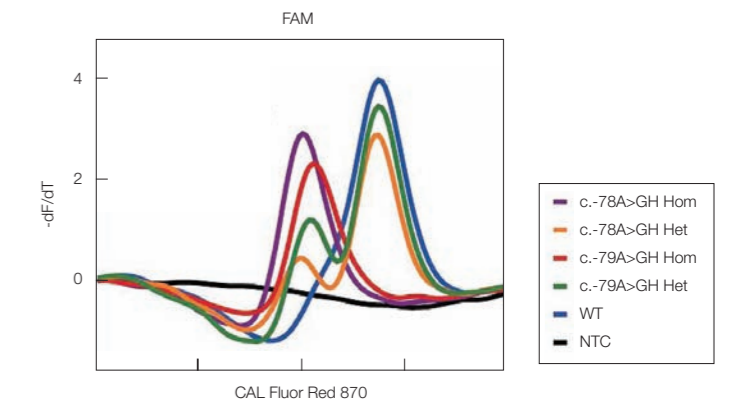
用于临床样品的检测，能够达到高灵敏度和优异的重复性。



HBV 试剂盒阳性样品的 10 倍稀释，到最低浓度 10<sup>1</sup> IU/ml，每个稀释度重复 2 次，灵敏的检测结果。

CFX96 能够使用各种临床检测试剂，进行多种分析，诊断临床疾病：

- 病原体，如 HBV、HCV、HPV、CT、TB、NG 等
- 遗传和耐药基因，如 HBV-YMDD、地中海贫血、MRSA、TB-INH 等
- 肿瘤基因，如 K-ras、EGFR 等



用于突变样品的检测，能够分析不同突变体。

