QIA Gility

Year of Purchase:

Cost:

For rapid, high-precision automated PCR setup

- Automated PCR setup in all formats
- Convenient, easy-to-use software
- Pre-optimized experiment setup
- Standardized results and increased productivity
- Elimination of manual pipetting steps

The QIAgility is a compact benchtop instrument that enables rapid, high-precision setup of PCR experiments with ready-to-use software for ease and convenience. The software provides step-by-step guidance for worktable setup and automatic calculation of all mixes, eliminating the need to program pipetting steps. Just select the kit and cycler, define your targets and start the run. For added flexibility the QIAgility is operated via a laptop computer.

Performance

The QIAgility fully automates proven QIAGEN PCR kits for use with various workflows, and offers pure pipetting precision, enhanced safety features, and exceptional reliability and reproducibility.

Principle

Automated PCR setup is rapid and reliable and eliminates manual pipetting steps that are typically prone to human error.

Liquid-handling tasks are performed by the single-channel pipetting head, which provides fast transfer of liquids with various types of plasticware. For example, 96 samples with the QuantiFast SYBR Green PCR Kit with 2 standard series can be setup in approximately 45 minutes. The worktable features a flexible layout and supports almost all kinds of cyclers and labware, giving high application versatility. Dynamic liquid-level sensing, facilitated by conductive filter tips offers maximum safety control.

The advanced design of the QIAgility delivers improved process safety, giving you peace of mind. A built-in sensor ensures that the instrument pauses when the hood is opened during a run, protecting users from moving parts. The UV light ensures effective worktable decontamination and the HEPA filter provides positive clean air pressure throughout PCR setup.

QIAgility is a compact benchtop instrument with a very small footprint. It fits easily onto most lab benches and can be readily moved into biosafety level laboratories. For added flexibility, the QIAgility comes with a laptop computer. To reduce your work load, comprehensive run reports containing all run information are generated automatically during each protocol.

Applications

The instrument is highly suited for laboratories performing PCR and RT-PCR reactions with applications in:

- Gene expression analysis
- Genotyping
- Cloning
- Pathogen detection
- Food and veterinary testing

The new QIAgility Setup Manager Software offers a complete solution for qPCR setup, sample normalization, CE loading, certain liquid handling, as well as sample pooling. The software includes Gene Expression, Pathogen Detection, Sample Pooling and Generic PCR plug-ins. The Gene Expression and Pathogen Detection plug-ins are optimized for use with QIAGEN gene expression and pathogen detection kits, such as QuantiNova, miRCURY and RT² kits. The Generic PCR plug-in allows flexible qPCR setup, liquid handling and support for the whole HID workflow.

Specifications

Features	Specifications
Accessories (supplied)	2 x Adapter, 96 x 0.2 ml PCR Tubes 1 x Adapter, Flip-Cap 32 x 1.5 ml Tapered Base 1 x Adapter, 72 x 0.1 ml Strip Tubes 1 x Master Mix Block, 5 x 5 ml 1 x Master Mix Block, 1 x 5 ml, 4 x 2 ml 1 x Master Mix Block, 1 x 5 ml, 4 x 1.5 ml 1 x Reagent Block, 16 x 0.2 ml / 2 ml Flat / 1.5 ml Tapered Tubes 4 x Tip Rack Holder for 96-Tip Rack The adapters are intended to hold tubes or plates.
Conductive Filtered Tips	50 µl and 200 µl Conductive Filtered Tips for liquid-level sensing
Dimensions	Height: 45 cm (18 in.), instrument lid closed; Height: 86 cm (34 in.)
Software	Supplied with unlimited user license. Free upgrades by Web download.
Pollution level	2
Temperature	Operating temperature, 15–30 °C (59–86°F)
Pipetting head	Single channel
Tip volume	1–200 µl
HEPA filter	Preinstalled dual-cartridge HEPA filter system provides positive pressure clean air
Liquid-level sensing	Minimum detection volume (10 µl in 200 µl PCR tubes)
Communications	USB and RS232
Consumables (supplied)	10 racks of 50 µl Conductive Filtered Tips (960)
Electrical	100–240 V AC, 250 VA, 50–60 Hz
Table capacity	6 x SBS positions
Precision	CV <1%, 5–200 µl (dry-well transfer) CV <5%, 2–5 µl (wet-well transfer) CV <10%
Tip disposal	All used tips ejected externally — no waste accumulation on the worktable
Place of operation	For indoor use only
UV lamp	Preinstalled UV lamp for worktable decontamination
Humidity	Operating humidity: 40–70%
Notebook (supplied)	QIAgility comes with a notebook computer for added flexibility.
Weight	41 kg (90.2 lb)