UF-150 GENECHECKER™

Ultra-Fast Real-Time PCR (qPCR) System

Fast and easy qPCR platform that yields results in as little as 12 minutes!

A new sample format and state of the art hardware technology make the difference in this unique system. GENECHECKER™ has adopted a special polymer to create a new microfluidic chip, which enables much faster thermal transfer to the samples when compared to conventional PCR tubes or plates. The thermal cycling mechanism of GENECHECKER™ achieves 8°C/sec ramping rate for both heating and cooling.

Innovative Technology

The integrated camera module fully monitors and records the fluorescence signal and the values are processed by GENERECORDER software. This provides precise results compared to conventional real-time PCR instruments. GENECHECKER™ comes with GENERECORDER software and is easily installed. No user's calibration is needed to run the instrument.

Environmentally Friendly

The technology enables an environmentally friendly design. The machine only uses 70 watts of power, which is up to 10 times less than conventional units. The affordable unit incorporates up to 10 samples and can be used with a portable battery pack for field use. The speed, reduced plastic use and lower energy consumption helps drive down costs.

GENERECORDER after the reaction

1. Real-time amplification curves are displayed in this section.

2. As a tool of the post-reaction analysis the melt cycle is performed and the change of the fluorescence signal during the melt cycle is displayed in this section once the melt cycle is finished.

3. Based on results of the melt cycle, a melt peak is displayed for easy identification and comparison of Tm values.

4. This section shows the reaction data such as Ct and Tm. In case of quantification, copy numbers are also displayed.

UF-150 GENECHECKER™

Specifications

Operating mechanism	Precisely controlled peltier element
Temperature accuracy	± 0.5°C
Temperature uniformity	± 0.5°C (well to well)
Temperature stability	± 0.5°C
Ramp rate	8.0°C / second, heating and cooling
Temperature range	30 ~ 65°C (1.0°C increment) for RT step 20 ~ 99°C (1.0°C increment) for PCR
Sample format	Polymer based 3-dimensional chip
Number of samples per run	10
Required sample volume	10µl
Typical PCR duration	Approx. 12 minutes for 30 cycles (without RT step)
Method of detection	Analysis of digitized fluorescence signal
Display	Bright LCD, 4 lines of text
Integrated memory	Saves up to 12 protocols
Type of excitation	High brightness LED
Wavelength	465nm + 10nm
Number of detection channels	1
Method of fluorescence measurement	Integrated camera module
PC connection	USB 2.0 A to B (PC to device)
Power	AC 100-230V/50/60Hz (input power : DC 12V)
Power consumption	70 W
Dimension	200mm (w) x 200mm (d) x 127mm (h)
Weight	Instrument : 3.2kg (instrument only)

Ordering Information

Cat. No.	Description	Pack
001151	Model UF-150 GENECHECKER™ Ultra-Fast Real-time PCR System	1 SET

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