



The latest reagent technology ensures Ultra-Fast reactions!

Another innovation through the latest PCR reagent technology

Adding to the innovative hardware technology for PCR instrumentation, reliable reagent technology is another key component to perform ultra-fast amplification and detection of genes in PCR applications. Genesystem offers a series of PCR master mixes for ultra-fast PCR tasks using GENECHECKER™.

Depending on the application, three different formats are available for immediate and easy use for your PCR applications.

Product	Application
Rapi:Amp	General Thermal Cycling
Rapi:Detect	Real Time PCR
Rapi:1-Step	One-Step RT PCR
Rapi:Spec	Probe PCR

Optimized for ultra-fast reactions with GENECHECKER™

High sensitivity, efficiency, reproducibility and minimized PCR inhibition

Uses novel antibody-mediated hot-start DNA polymerases

Available for general PCR, real-time analysis and one-step RT-PCR

Developments to give more value to your PCR application

The Series of master mixes for Genesystem are a 2x concentrated, ready-to-use reaction cocktail containing all components, except primers and template, for ultra-fast PCR tasks. These premixes includes a novel antibody-mediated hot-start DNA polymerases with improved speed when compared to other commercial polymerases. The master mix for real-time detection includes a double strand DNA specific-binding fluorescent dye and also there is areverse transcriptase available for one-step RT-PCR applications.

In addition, the Uracil-DNA glycosylase with dUTP system is applied to these PCR premixes for the prevention of carryover contamination. All the master mixes of Genesystem have been optimized to deliver maximum PCR efficiency, sensitivity and robust fluorescent signal using fast cycling protocols for dye-based detection in ultra-fast real-time PCR using **GENECHECKER™**.



General Protocol

Components	Volume
DNA Template	Your Volume
2x Master Mix	5µl
Forward Primer (5-10 pmoles/µl)	1µl
Reverse Primer (5-10 pmoles/µl)	1µl
D.W.	Adjust to Final 10µl

THERMAL CYCLING AND REAL-TIME PCR

Step	Condition	Cycle(s)	Condition	Cycle(s)
cDNA Synthesis	Set at 0 sec	0	50°C for 5-30 mins	1
Enzyme Activation	95°C for 30 secs	1	95°C for 30 secs	1
PCR Amplification	Denaturation	95°C for 3-10 secs	95°C for 3-10 secs	30-50
	Annealing	(your temp) 3-10 secs	3-10 secs	30-50
	Extension	72°C for 3-10 secs	72°C for 3-10 secs	30-50

ONE STEP RT-PCR

ORDERING INFORMATION

Cat. No.	Description	Pack Size
004001	Rapi:Detect Master Mix with Fluorescent Dye for Model UF-150 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004002	Rapi:1-Step Onestep RT-PCR Kit with Fluorescent Dye for Model UF-150 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004003	Rapi:Amp Master Mix for Model UF-100 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004004	Rapi:Amp Master Mix with Gel loading Dye for Model UF-100 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004005	Rapi:Spec Probe Master Mix for Model UF-150 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004006	Rapi:1-Step Master Mix with RTase for Model UF-100 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes
004007	Rapi:Spec Probe Master Mix with RTase for Model UF-150 GENECHECKER™ (400 Reactions)	1mL x 2 Tubes

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