Master Mixes

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, different formats are available for immediate and easy use for your PCR applications.

Especially Formulated

The master mixes for Genesystem are 2x concentrated, ready-to-use reaction cocktails containing all components, except primers and templates, for ultra-fast PCR tasks. These premixes include a novel antibody-mediated hot-start DNA polymerase 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 a reverse transcriptase available for one-step RT-PCR applications.

Maximum Efficiency

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™.

Product	Application
Rapi:Amp	PCR
Rapi:Detect	qPCR
Rapi:1-Step	One-Step RT PCR
Rapi:Spec	qPCR

Master Mixes

General Protocol

Components	Volume
DNA Template	Your volume
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		**Cycle(s)**
cDNA Synthesis	Set at 0 sec	0
Enzyme Activation	95°C for 30 secs	1
PCR Amplification - Denaturation	95°C for 3-10 secs	30-50
- Annealing	(your temp) 3-10 secs	30-50
- Extension	72°C for 3-10 secs	30-50
One Step Real-Time PCR		
cDNA Synthesis	50°C for 5-30 mins	1
Enzyme Activation	95°C for 30 secs	1
PCR Amplification - Denaturation	95°C for 3-10 secs	30-50
- Annealing	3-10 secs	30-50
- Extension	72°C for 3-10 secs	30-50

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 Master Mix RT-PCR 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
004105	Rapi:Lyo Probe Lyophilized Master Mix for Model UF-150 GENECHECKER™ (480 reactions)	48 x 10 rxns

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