

# Multi HS Prime Taq Premix (2X, for Multiplex PCR)

Product Name	Cat. No.	Size
Multi HS Prime Taq Premix (2X)	MH-7100	1.0 ml X 1

## Package information

MH-7100	2X Multi HS Prime Taq Premix (1.0 ml X 1) - with HS Prime Taq DNA Polymerase, dNTPs mix., reaction buffer, enzyme stabilizer and loading dye
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## Description

The Multi HS Prime Taq Premix is for multiplex PCR. This product contains a master mix whose composition and elements were specifically developed for multiplex PCR applications.

This product contains optimized concentrations of Hot-start Taq DNA Polymerase (HS Prime Taq DNA Polymerase, G-7000), dNTPs mixture, MgCl<sub>2</sub> and reaction buffer.

Multiplex PCR is a powerful technique that enables amplification of two or more products in parallel in a single reaction tube.

It is widely used in genotyping applications and different areas of DNA testing in research, forensic, and diagnostic laboratories.

## Applications

- Genotyping applications (e.g., STR, VNTP analysis)
- Detection of pathogens/diagnostics
- Qualitative and semi-quantitative gene expression analysis

## Protocol

The following 20  $\mu$ l reaction volume can be used for PCR.

1. Prepare the following components to a PCR tube.

Components	Volume
DW	add up to 20 $\mu$ l
Multi HS Prime Taq Premix (2X)	10 $\mu$ l
Upstream Primer (10 pmoles/ $\mu$ l)	0.5~2.0 $\mu$ l
Downstream Primer (10 pmoles/ $\mu$ l)	0.5~2.0 $\mu$ l
Template DNA *	x $\mu$ l

\* Amount of template DNA: 10 ng ~ 250 ng

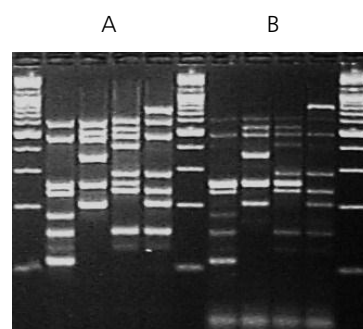
2. PCR cycling

Step	3-step PCR		Cycles
	Temp.	Time	
Initial denaturation	95°C	10 min	1
Denaturation Annealing Extension	95°C x°C 72°C	30 sec 30~60 sec 1 min	30~40
Final Extension	72°C	5 min	1

3. Separate the PCR products by agarose gel electrophoresis and visualize with EtBr or any other means.

► A DNA fragment which is amplified by Multi HS Prime Taq Premix has A overhang, and it enables you to do cloning by using T-vector.

## Performance of Multi HS Prime Taq Premix



A: Multi HS Prime Taq Premix

B: Normal Taq premix

● Research Use Only

● Store at -20°C