

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

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

Package information

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

Description

The Multi HS Prime Taq Premix with UDG contains uracil-DNA glycosylase, dATP, dCTP, dGTP, dTTP and dUTP.

The UDG efficiently remove uracil from single-stranded or double-stranded DNA. Also this product contains a master mix whose composition and elements were specifically developed for multiplex PCR applications.

And this product contains optimized concentrations of Hot-start Taq DNA Polymerase (HS Prime Taq DNA Polymerase, G-7000), dNTPs mixture, MgCl₂ 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 μ l reaction volume can be used for PCR.

1. Prepare the following components to a PCR tube.

Components	Volume
DW	add up to 20 μ l
Multi HS Prime Taq Premix with UDG (2X)	10 μ l
Upstream Primer (10 pmole/ μ l)	0.5~2.0 μ l
Downstream Primer (10 pmole/ μ l)	0.5~2.0 μ l
Template DNA *	x μ l

* Amount of template DNA: 10 ng ~ 250 ng

2. PCR cycling

Step	3-step PCR		Cycles
	Temp.	Time	
UDG activation	50°C	3 min	1
Initial denaturation	95°C	10 min	1
Denaturation	95°C	30 sec	30~40
Annealing	x°C	30~60 sec	
Extension	72°C	1 min	
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.

● Research Use Only

● Store at -20°C