



Ver. HB230112

## 2×Hieff™ PCR Master Mix (No Dye)

### Product description

2×Hieff™ PCR Master Mix is a kind of conventional PCR premixed solution which is ready to use, including Hieff™ Taq DNA Polymerase (Cat#10101), dNTP mix, MgCl<sub>2</sub> and optimized buffer. During the reaction, only the primer and template can be added for amplification, which greatly simplifies the operation steps of experiment.

This product contains excellent stabilizers and can be stored for 3 months at 4°C. The PCR product have 3'-dA protrusion and can be easily cloned into T vector.

### Components

Components No.	Name	10103ES03	10103ES08	10103ES50	10103ES60
10103	2×Hieff™ PCR Master Mix (No Dye)	1 mL	5×1 mL	50×1 mL	100×1 mL

### Specifications

Fidelity (vs. Taq)	1 ×
Hot Start	No
Overhang	3'-A
Polymerase	Taq DNA Polymerase
Reaction Format	SuperMix or Master Mix
Reaction Speed	Standard
Product Type	PCR Master Mix (2×)

### Storage

The 2×Hieff™ PCR Master Mix products should be stored at -25°C~-15°C for 2 years.

### Instructions

#### 1. Reaction System

Components	Size (μL)
Template DNA	suitable
Primer 1 (10 μmol/L)	2
Primer 2 (10 μmol/L)	2
2×Hieff™ PCR Master Mix	25



ddH <sub>2</sub> O	to 50
--------------------	-------

## 2. Amplification Protocol

Cycle steps	Temperature	Time	Cycles
Pre-denaturation	94°C	5 min	1
Denaturation	94°C	30 sec	35
Annealing	50-60°C	30 sec	
Extension	72°C	30-60 sec/kb	
Final extension	72°C	10 min	1

[Note]: a. Template usage: 50-200 ng genomic DNA; 0.1-10 ng plasmid DNA.

b. Annealing temperature: Please refer to the theoretical T<sub>m</sub> value of primers. The annealing temperature can be set to 2-5°C lower than the theoretical value of the primer.

c. Extension time: For molecular identification, 30 sec/kb is recommended. For gene cloning, 60 sec/kb is recommended.

## Notes

1. PCR products with 2×Hieff™ PCR Master Mix are not suitable for polyacrylamide gel electrophoresis. Our another product (Cat# 10101) is more suitable for polyacrylamide gel electrophoresis.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. This product is for research use ONLY!