



2×Hieff™ PCR Master Mix (With Dye)

Product description

2×Hieff™ PCR Master Mix contains Hieff™ Taq DNA Polymerase (Cat#10101), dNTPs, and other PCR-required components. The Master Mix is stable for 3 months at 4° C with our customized stabilizers. The pre-mix solution is optimized for conventional PCR and ready to use by adding DNA template and primers. The PCR products can be loaded directly for electrophoresis with pre-loaded bromophenol blue dye. The amplified products contain 3'-dA protrusion and can be easily cloned into T vector. The 2×Hieff™ PCR Master Mix simplifies PCR procedure and reduces contamination.

Components

Components No.	Name	10102ES03	10102ES08	10102ES50	10102ES60
10102	2×Hieff™ PCR Master Mix (With 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 ₂ 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_m 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!