



ELK Biotechnology
For research use only.

EntiLink™ HotStart PCR Master Mix

Catalog No.	Specification	Storage/Shelf life
EQ024-01	1mL	-20°C/two years
EQ024-02	5 x 1mL	-20°C/two years

Introduction

EntiLink™ HotStart PCR Master Mix is a ready-to-use, conventional PCR premix solution containing Hot Start Taq DNA Polymerase, dNTP mixture, MgCl₂ and an optimized buffer system. The reaction can be carried out by simply adding primers and templates, which greatly simplifies the experimental procedure.

The product contains bromophenol blue dye, and the PCR product can be directly electrophoresed. This product contains excellent stabilizers and can be placed for 3 months at 4 °C. The PCR product has a 3'-dA overhang and can be easily cloned into a T vector.

Reaction System

Components	Volume (μL)
Template DNA	Moderate amount
Primer 1 (10 μM)	2
Primer 2 (10 μM)	2
EntiLink™ HotStart PCR MasterMix	25
ddH ₂ O	to 50



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Amplification procedure

Cycle step	Temperature (°C)	Time	Cycle number
Pre-denaturation	94	5 min	1
Denaturation	94	30 sec	35
Annealing	50-60	30 sec	
Extended	72	30 sec/kb	
Final Extended	72	10 min	1

Attention

Be sure to mix thoroughly before use.

- Template usage: genomic DNA: 50-200 ng; plasmid DNA: 0.1-10 ng.
- Mg²⁺ concentration: This product contains 3 mM MgCl₂, which is suitable for most PCR reactions.
- Annealing temperature: Please refer to the theoretical T_m value of the primer, and the annealing temperature can be set lower than the theoretical value of the primer by 2-5°C.
- Extension time: Molecular identification is recommended at 30 sec/kb. Gene cloning is recommended at 60 sec/kb to ensure the highest amount of product.