Super TaqMix

For research use only

Cat. No./Spec.			
Cat. No	P1241	P1242	P1243
50-μl reaction Nos.	40 rxns	200 rxns	4,000 rxns

Description

Super TaqMix is a universal and easy-to-use PCR Master Mix that employs antibody-modified hotstart technology, offering excellent specificity and sensitivity. This product uses a universal annealing temperature of 55° C, which reduces the optimization steps of the reaction and enables simultaneous amplification of different PCR reactions. By innovatively combining a novel buffer, high-performance Taq DNA polymerase, and an excellent hot start technology, outstanding PCR results can be achieved even under the most demanding experimental applications. The amplified products have 3'-dA overhangs, which can be directly used for TA cloning.

Product Advantages

Universal primer annealing temperature (55°C) — enables simultaneous amplification of different PCR reactions

Fast DNA synthesis speed and inhibitor tolerance — using modified Taq DNA polymerase

Hot start technology — provides excellent specificity, sensitivity, and yield

Green buffer — allows direct gel loading of PCR products for electrophoresis, helping to reduce pipetting errors

Components

Component	P1241	P1242	P1243
2X Super TaqMix	1 ml	1 ml × 5	100 ml

This product contains two electrophoresis indicators, blue and yellow, PCR amplification products can be directly electrophoretic.

Storage

Store at -20°C for 2 years.

Protocol

1. Preparation of reaction solution

Add the following reagents to the proper thermal cycler reaction tube or plate on ice or at RT:

Component	50-μl rxn	Final Conc.
2X Super TaqMix	25 μl	1X
upstream primer (10 μM)	2 μl	0.4 μM
downstream primer (10 μM)	2 μl	0.4 μM
template DNA	x μl	-
Water, nuclease-free	to 50 μl	–

2. Perform PCR using the following thermal cycling condition

Stage	Temperature	Time	Number of Cycles
Initial Denaturation	95°C	1 min	1
Denaturation	95°C	30 sec	25-35
Annealing	55-60°C[1]	30 sec	
Extension	72°C	30 sec	
Final Extension	72°C	5 min	1

[1] 55° C can meet the annealing needs of most primers, and gradient PCR can be used to find the appropriate annealing temperature for special primers.

Quality Control

The absence of endodeoxyribonucleases, exodeoxyribonucl- eases and ribonucleases is confirmed by appropriate quality tests. Functionally tested in amplification of a single-copy gene from human genomic DNA.

Product Use Limitations

This product is sold exclusively for research purposes and *in vitro* use. Neither the product, nor any individual components, was tested for use in diagnostic applications or for drug development, nor is it suitable for administration to humans or animals. Please refer to the MSDS, available upon request.