2× Taq PCR Mix

Catalog No.: A0002-1

Description

EZBioscience[™] 2× Taq PCR Mix is a Hot Start Taq-based PCR reagent. The mix contains genetic engineer modified Hot Start Tag DNA Polymerase, dNTPs, reaction buffer, and stabilizers for PCR. The activity of Hot Start Tag DNA Polymerase in the mix is blocked at ambient temperature, and activity is restored after the initial denaturation step in PCR cycling at 95°C. This process offers increased sensitivity, specificity, and yield, while allows reaction assembly at room temperature. This reagent performs highly specific and efficient amplification, and no decrease in reaction efficiency is observed after 20 freeze-thaw cycles. The amplified products can be cloned into T-Vectors directly because most PCR products synthesized by Taq DNA polymerase have an A overhung at the 3'-terminus.

Components

Components	A0002-1	A0002-1-L
EZBioscience ™ 2× <i>Taq</i> PCR Mix	5 ml	25 ml

Storage

Store at -20 °C.

Protocol

1. Standard reaction mixture:

Component	Reaction volume		Final concentration	
Component	50 μl	20 µl		
ddH ₂ O	ΧμΙ	ΧμΙ		
2× Taq PCR Mix	25 µl	10 µl		
Primer 1 (10 μM)	1 µl	0.4 µl	0.2 μΜ	
Primer 2 (10 μM)	1 µl	0.4 µl	0.2 μΜ	
Template DNA	ΥμΙ	ΥμΙ	Plasmid DNA: 0.1~10 ng Bacterial Genomic DNA: 10~100 ng Human Genomic DNA: 0.1~1 μg λ DNA: 0.5~5 ng	

2. Routine PCR Cycle Conditions:

Predenaturation	95 °C, 5 min	
Denaturation	95 °C, 15 sec	,
Annealing	(Tm-2) °C, 15 sec	35 cycles
Extension	72 °C, 1 min/kb	J