Product Information

2×Taq PCR Master Mix (Green)

Catalog Number: S2045

Product Size: 200 T, 2000 T

Contents:

Component	200 T	2000 T
A. 2×Taq Master Mix (Green)	5×1 mL	50×1 mL
B. ddH_2O	5 mL	10×5 mL

Storage

Store at -20°C. When stored as directed, product is stable for at least 12 months.

Description

The kit contains Taq DNA Polymerase, dNTP, indicator dye and optimized buffer system at a concentration of 2 ×. The product is convenient to use, and only needs to add template, primers and water when using, so that the reaction system concentration is 1 × and the PCR reaction can be performed.

The PCR Mix can amplify up to 5kb DNA fragments with good amplification specificity and template compatibility. Because the PCR mix contains dyes, the amplified products can be loaded directly for electrophoresis.

Characteristics

Easy to operate, reducing error;

High amplification efficiency and good stability;

Suitable for amplification of complex templates and longer fragments.

Protocol

1. The reaction system is as follows:

Component	volume	Final concentration
2×Taq PCR Master Mix	25 μL	1×
F Primer	1 μL	0.2 μM
R Primer	1 μL	0.2 μM
DNA[a]	×μL	
ddH_2O	to 50 μL	

Note: The optimal reaction concentration varies with different templates. Take the 50 μL system as an example: when the template is genomic DNA, it should generally be 10 ~ 400 ng; when the template is plasmid or viral DNA, it should be 10 pg ~ 20 ng.

2. Perform PCR program:

Cycling Step	Temperature	Time	cycle
Enzyme Activation	94 ℃	2-5min	1
Denaturation	94 ℃	10 s	30~35
Annealing	50~65 ℃	30 s	
Extension	72 ℃	60 s/kb	
Final extension	72℃	5 min	1

Notes

Thoroughly thaw and mix during use. Please prepare the PCR reaction system on ice, and then place it on a PCR instrument for reaction to reduce non-specific amplification.

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