

2×NG PCR MasterMix

Code No. : NG001S 5 ml
NG001M 80 ml

Storage : Store at -20 °C for up to two years and avoid repeated freezing and thawing. For regular use, please store at 2-8 °C.

Introduction :

NG PCR MasterMix is a 2× concentrated, optimized mixture composed of NG Taq DNA Polymerase, dNTP Mix, reaction buffer and other PCR reaction enhancer. PCR reaction system can be carried out only by adding template, primer, water and mix to the reaction buffer, which simplifies the experimental operation process and reduces the pollution in the operation process. The advantages of 2×NG PCR MasterMix include high convenience, sensitivity, specificity and stability. It minimizes man-made errors during PCR operating process. Taq PCR Mix is suitable for routine PCR reaction, amplification of complex templates such as GC rich templates (>60%) and templates with secondary structure, and large-scale gene detection. Product of NG Taq DNA Polymerase can be used to clone TA directly, with the elongation rate from 1 to 2 kb per min.

Product Specifications :

1. Efficient and stable buffer system.
2. High sensitivity: low abundance template can be effectively amplified.
3. Wide applicability: The reaction system can effectively expand the complex template structure and high GC content template.

Operation Procedure:

1. Preparation of PCR reaction system

content	25 µl	50 µl	Final Conc.
2×NG PCR MasterMix	12.5 µl	25 µl	1×
Forward Primer (10 µM)	1-2.5 µl	2-5 µl	400-800 nM
Reverse Primer (10 µM)	1-2.5 µl	2-5 µl	400-800 nM
Template			pg-ng
ddH ₂ O	Up to 25 µl	Up to 50 µl	

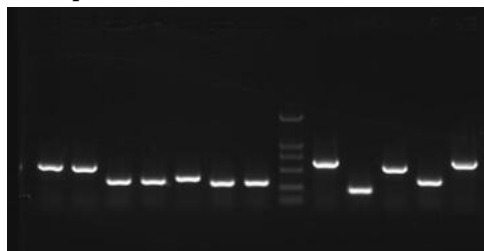
2. PCR reaction conditions

No. of Cycles	Temperature	Time	Step
1	95 °C	2-5 min	Initial denaturation
30-35	95 °C	30 sec	Denaturation
	50-65 °C	30 sec	Annealing
	72 °C	1-2 kb per min	Extension
1	72 °C	10 min	Extension

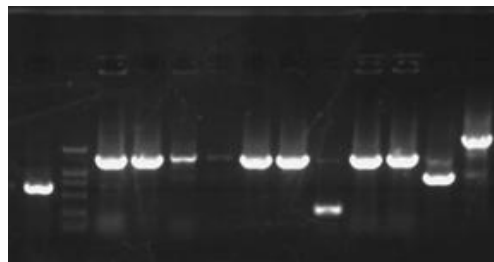
Note:

To ensure the efficiency of PCR amplification, must be avoided repeated freezing and thawing.

Example:



1-2 : 560bp ; 3-4 : 360bp ; 5 : 450bp ; 6-7 : 300bp ;
8 : Marker2000 ; 9 : 670bp ; 10 : 200bp ; 11 :
550bp ; 12 : 350bp ; 13 : 700bp



1 : 560bp ; 2 : Marker2000 ;
3-4 : 1225bp (GC65%) ;
5-6 : B Corp. mix
7-8 : 1200bp (GC71%) ;
9 : B Corp. mix
10-11 : 1200bp (GC74.3%) ;
12 : 750bp ; 13 : 2300bp