Taq PCR Premix with Dyes

02-102 100 reactions

02-102-5 500 reactions

Description

Taq PCR Premix with Dyes is an optimized ready-to-use solution containing *Taq* DNA Polymerase, dNTPs, $MgCl_2$, KCl and stabilizers. It is ideally suited to routine PCR applications from templates including pure DNA solutions bacterial colonies and cDNA products.

Applications

·PCR

·Primer Extension

·Colony PCR

Composition of PCR reaction Mixture (total 50µl)	
Taq PCR Premix with Dyes	25 µl
Template	<500 ng
Primer 1	0.2~1.0 µM (final conc.)
Primer 2	0.2~1.0 µM (final conc.)
Sterile distilled water	up to 50 µl

Quality Assurance: Greater than 95% purity as determined by SDS-PAGE (CBB staining).
The absence of endonuclease and exonucleases was confirmed.

PCR product: PCR products have one A added at the 3'-terminus. Thus, the PCR product can be used directly for cloning into a T-vector. Additionally, it is possible to clone the product in blunt-end vectors after blunting and phosphorylation of the end.

PCR Test: Good amplification result was obtained in PCR reaction using λDNA as a template (Fig.1).

Taq PCR Premix with Dyes composition : 10 mM Tris-HCl, 50 mM $MgCl_2$, 0.2 mM dNTPs, 5 % Glycerol, 0.08 % NP-40,0.05 % Tween-20, 25 units/ml Taq DNA Polymerase, pH 8.6 @ 25℃, 0.0005 % BPB, 0.001% XC

Storage Temperature: - 20℃

Fig. 1 Amplification of λ DNA

PCR条件

98° C 10sec

57° C 30sec 25cycles

72° C 8min.

(2min in the case of 2kb DNA.)

Lane M : marker

1 : 2 kbp

2 : 4 kbp

3 : 6 kbp

4 : 8 kbp

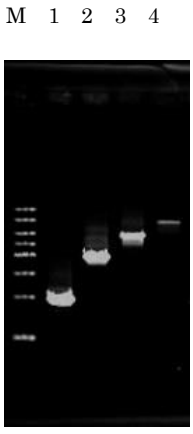

Fig.2

Notes: Repeated freezing and thawing may decrease enzyme activity. Once thawed, aliquot into PCR tubes and store at -20℃. (For 50 µlPCR reactions, dispense 25 µlinto each tube.)
If you store this product at 4℃, please use it within 3 months.

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