

Taq Premix with Dyes

02-102	100 reactions
02-102-5	500 reactions

Description

Taq Premix with Dye is an optimized ready-to-use solution containing *Taq* DNA Polymerase, dNTPs, MgCl₂, 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 Premix with Dye	25μl
Template	<500ng
Primer 1	0.2~1.0μM (final conc.)
Primer 2	0.2~1.0μM (final conc.)
Sterile distilled water	up to 50μl

Concentration: One unit is defined as the amount of enzyme that can incorporate 10nmols of total dNTPs into an acid-insoluble material in 30 minutes at 74°C when activated salmon sperm DNA was used as template / primer.

Quality Assurance: Greater than 95% purity as determined by SDS-PAGE (CBBstaining). 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).

Premix composition : 10 mM Tris-HCl, 50 mM MgCl₂, 0.2 mM dNTPs, 5 % Glycerol, 0.08 % NP-40, 0.05 % Tween-20, 25 units/ml Taq DNA Polymerase, pH 8.6 @ 25°C, 0.0005 % BPB, 0.001% XC

Storage Temperature: - 20°C

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

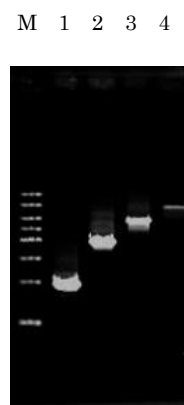


Fig.2



Notes: Repeated freezing and thawing may decrease enzyme activity. Once thawed, aliquot into PCR tubes and store at -20°C. (For 50 μl PCR reactions, dispense 25 μl into each tube.)

If you store this product at 4°C, please use it within 3 months.