

## Taq PCR Premix

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

### Description

Taq PCR Premix is an optimized ready-to-use solution containing *Taq* DNA Polymerase, dNTPs, MgCl<sub>2</sub>, 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
- High-Throughput PCR

Composition of PCR reaction Mixture (total 50μl)	
Taq PCR Premix	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 (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).

**Taq PCR Premix composition :** 10 mM Tris-HCl, 50 mM MgCl<sub>2</sub>, 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

**Storage Temperature:** - 20°C

Fig. 1 Amplification of λ DNA

#### PCR条件

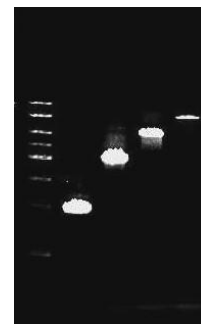
98° C 10sec  
 57° C 30sec 25cycles  
 72° C 8min.

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

Lane M : marker

1 : 2 kbp  
 2 : 4 kbp  
 3 : 6 kbp  
 4 : 8 kbp

M 1 2 3 4



**Notes:** Repeated freezing and thawing may decrease enzyme activity. Once thawed, aliquot into PCR tubes and store at -20°C.

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