

## Taq Premix

02-615 100 reactions 02-615-5 500 reactions

## Description

Taq 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**

 $\cdot PCR$ 

Primer Extension

·Colony PCR

·High-Throughput PCR

Composition of PCR reaction Mixture (total 50µl)	
Taq Premix with Dy	e 25µl
Template	<500ng
Primer 1	0.2~1.0μM (final conc.)
Primer 2	0.2~1.0μM (final conc.)
Sterile distilled wate	er 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.

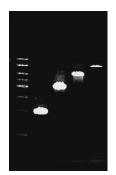
**PCR product:** PCR products have one A added at the 3'-terminus. Thus, the PCR product can be used directly for cloning into a T-vector. Additionally, it is possible to clone the product in blunt-end vectors after blunting and phosphorylation of the end.

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 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: -  $20^{\circ}$ C

M 1 2 3 4

Fig. 1 Amplification of $\lambda$ DNA	Lane M : marker
PCR条件	$1:2~\mathrm{kbp}$
98° C 10sec	2: 4 kbp
57° C 30sec 25cycles	$3:6~\mathrm{kbp}$
72° C 8min.	$4:8~\mathrm{kbp}$
(2min in the case of 2kb DNA.)	



**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.

Related products: # 02-001 Taq DNA polymerase Related products: # 02-616 Taq Premix with dye