

Taq Premix

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

Description

Taq Premix 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

·High-Throughput PCR

Composition of PCR reaction Mixture (total 50µl)	
Taq Premix with Dy	re 25µl
Template	<500ng
Primer 1	$0.2\sim1.0\mu\mathrm{M}$ (final conc.)
Primer 2	$0.2\sim1.0\mu\mathrm{M}$ (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

Storage Temperature: - 20°C

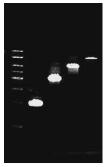
Fig. 1 Amplification of $\ \lambda$ DNA Lane M : marker

 PCR条件
 1:2 kbp

 98° C 10sec
 2:4 kbp

 57° C 30sec
 25cycles

 72° C 8min.
 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.

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

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp http://www.bioacademia.co.jp/en/