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, $MgCl_2$, 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

·High-Throughput 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

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 $MgCl_2$, 0.2 mM dNTPs, 5 % Glycerol, 0.08 % NP-40, 0.05 % Tween-20, 25 units/ml Taq DNA Polymerase, pH 8.6 @ 25℃

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

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

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

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