



Sepahan Plant Multiplication Biotechnology Co.

Taq DNA Polymerase (recombinant)

Concentration: 5 u/ μ l

Cat. NO. SP101	500 unit
Cat. NO. SP102	2500 unit
Cat. NO. SP103	5000 unit
Cat. NO. SP104	10000 unit

Store at -20°C

Description

Taq DNA Polymerase is a thermostable DNA polymerase that possesses a 5' → 3' polymerase activity and a 5' flap endonuclease activity. It is best for routine PCR applications from templates including pure DNA solutions, bacterial colonies, and cDNA.

Source

An *E. coli* strain that carries the *Taq* DNA Polymerase gene from *Thermus aquaticus*.

Storage Buffer

Enzyme is supplied in: 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 100 mM KCl, 0.5% Nonidet P40, 0.5% Tween 20 and 50% glycerol.

QUALITY CONTROL

Tested in the amplification of single-copy gene of *Medicago truncatula* genomic DNA.

Reaction setup

Component	25 μ l Reaction	Final Concentration
10X PCR Buffer	2.5	1X
50mM MgCl ₂	0.75 μ l	1.5mM
10mM dNTP mix	0.5 μ l	0.2 mM
10 μ M F Primer	0.5 μ l	0.2 μ M
10 μ M R Primer	0.5 μ l	0.2 μ M
Template DNA	variable	<1,000 ng
<i>Taq</i> Polymerase	0.2 μ l	1unit
Nuclease-free water	to 25 μ l	

PCR may perform in 25-30 cycles as follows:

Denature 93°C,45 seconds

Anneal 55°C,30seconds

Extend 72 °C,90seconds