

HP™ High Performance *Pfu* DNA Polymerase

Cat # : PFUDNAPOLY Size : 250U (5U/μL)

Product Description:

"HP™ High Performance *Pfu* DNA Polymerase" is a recombinant, thermostable, modified DNA polymerase from *Pyrococcus furiosus*. This enzyme is recombinant *Pfu* according to the published gene sequence. The reaction temperature of this enzyme is 68°C. The elongation rate is ~1/2 to *Taq* DNA polymerase (*Pfu* is ~500bp/min; *Taq* is ~1kb/min). It can easily amplify up to 5kb specific DNA fragment from lambda DNA, and 1-2 kb specific DNA fragment from Human genomic DNA.

Components: Store at -20 °C

- * 1 tube of 50μL *Pfu* DNA polymerase in *Pfu* Storage Buffer
- * 1 tube 10X *Pfu* PCR Buffer

Pfu Storage Buffer :

[50 mM Tris-HCl (pH 8.2), 0.1 mM EDTA, 1 mM DTT, 0.1% Nonidet-P40 (v/v), 0.1% Tween-20(v/v), and 50% glycerol.]

10X *Pfu* PCR Buffer :

[200 mM Tris-HCl (pH 8.8 at 25 °C), 100 mM KCl, 100 mM (NH₄)₂SO₄, 1% Triton X-100) including 20 mM MgSO₄.]

General Protocol:

Suggested PCR Program

Stage	Temperature	Time
Initial denature	94-95°C	1-5 min
Denature	25-40 cycles	94-95°C
Annealing		50-60°C*
Extension		68°C
Final extension	68 °C	5-10 min
Preservation	4-10 °C	

* Annealing temperature is depending on the T_m value of primers.

- For experimental sample, please test for your own cycle conditions.
- This enzyme is stored in -20 °C for at least 2 year.

Research Use Only

Please do not hesitate to contact us while you have any questions.
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