

Dr.Q 分子生物試劑

Dr.Q Pfu DNA Polymerase

Product name: Dr.Q Pfu DNA

Polymerase,500u

Catalogue no.:Dr.QPCR008

Cat No	Pack size	conc
DR.QPCR008	500 U	5U/ul

Description

Pfu DNA polymerase is a thermostable enzyme isolated from *Pyrococcus furiosus*. The enzyme replicates DNA at 75°C, catalyzing the polymerization of nucleotides into duplex DNA in the 5'→3' direction. Pfu DNA polymerase possesses 3'→5' exonuclease (proofreading) activity. Base misincorporation is rapidly excised by the proofreading activity of the polymerase. Pfu DNA polymerase is recommended for PCR and primer extension reactions that require high-fidelity. The fragments of Pfu DNA polymerase generated are blunt-ended.

Error rate

2 x10⁻⁶

Unit description

One unit of Pfu DNA Polymerase incorporates 10 nmol of dNTP into acid-insoluble material in 30 min at 74°C

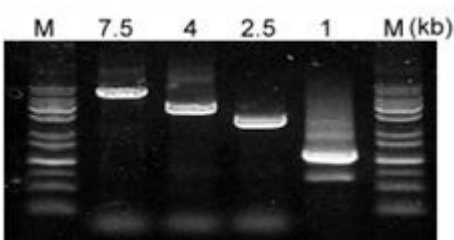
Storage buffer

50% glycerol (v/v), 20 mM Tris-HCl pH 8.7 at -20°C, 100 mM KCl, 0.1 mM EDTA.

Source

E coli clone

PCR result



Pfu DNA polymerase amplified 1kb to 7.5kb DNA fragment

尉徠生物科技有限公司

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PCR cycles program

Step	Temperature	Time	Cycle
Initial denaturation	94-95 °C	1-3 mins	1
Denaturation	94-95 °C	0.2-1	
Annealing	50-68	0.2-1	25-35
Extension	68-75	2min/1kb	
Final extension	68-75	5	1

IMPORTANT: Annealing temperature should be 2-6°C lower than the primer melting temperature.

Shipping and Storage conditions

Shipping and temporary storage at -20°C and for up to 1 month at room temperature has no detrimental effects on the quality of Pfu DNA polymerase.

Quality control

The enzyme is free of nicking and priming activities, exonucleases and non-specific endonucleases. SDS/PAGE - 95 kD band. Activity and stability tested via thermo-cycling.

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