

# STRONG Taq DNA Polymerase

Catalog No. **TAQ01** , 500U / 100  $\mu$ l



## Components:

- Recombinant Taq DNA polymerase (5 U/ $\mu$ l.)
- 10X PCR Buffer with 15 mM MgCl<sub>2</sub>, 1.3 ml

## Unit Definition:

One Unit is the amount of enzyme that incorporates 10 nmoles of dNTPs into acid-insoluble material in 30 minutes at 70°C.

## Storage Buffer:

- 20 mM Tris-HCl, pH 8.0
- 10 M DTT
- 100 mM KCl
- 50% glycerol
- 1% Triton-X100

## 10X Reaction Buffer:

- 500 mM Tris-HCl, pH 9.1
- 160 mM ammonium sulfate
- 35 mM MgCl<sub>2</sub>
- 40 mM KCl
- 1.5 mg/ml BSA

## PCR Assays:

Each Batch of enzyme was tested by amplification of DNA molecules 600 bp, 1100 bp, and 1500 bp to show that the enzyme can produce amplicons of different lengths. The amplification reaction was performed with 2 Units of enzyme and 2ng of plasmid in a volume of 50  $\mu$ l for 30 cycles.

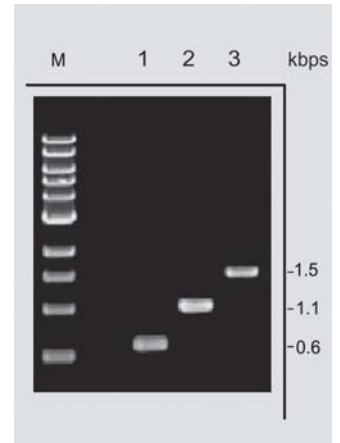
**Storage condition:** -20°C

## Quality Control:

The product is free from both exo- and endo-nuclease contamination by testing each nuclease assay in PCR buffer.

## \*Note:

1. Avoid repeated freeze-thaw cycles of both the enzyme and the 10X reaction buffer which might reduce the activity of the polymerase and cause precipitation of BSA in the buffer.
2. If the enzyme is used frequently, store at 2-8°C in refrigerator is recommended.



**Strong Biotech Corporation** This product is for research use only. Not for use in diagnostic procedures. ver1.2, 2009  
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