

## DATA SHEET

Versions: 01

Revision date: 25/8/2024

### 1. Identification

Product name: Klen-Taq DNA Polymerase

Reactions: 500 Units/5000Units

Cat. No.: PRA-KTaqDPK

### 2. Description

Recombinant enzyme Klen-Taq DNA Polymerase is a new product which is better than normal enzyme Taq-DNA polymerase due to heat resistance and fast activity. Furthermore, this enzyme is suitable for DNA amplification higher temperature

### 3. Kit Contents/Protocol

Component	Volume	Final Concentration
10X PCR buffer	10 $\mu$ l	1X
10mM dNTP mix	2 $\mu$ l	0.2mM each
MgCl <sub>2</sub> 20mM	10 $\mu$ l	2mM
primers (10 $\mu$ M each)	5 $\mu$ l	0.5mM each
Template DNA	1 $\mu$ g	-----
Klen-Taq DNA polymerase	0.5 $\mu$ l	2.5unit/100 $\mu$ l reaction
RNase/DNase free water	Up to 100 $\mu$ l	

**Caution: Please wear gloves when using this product. Avoid all skin contact with kit reagents. In case of contact, wash thoroughly with water.**

### 4. Storage specifications

The components of cDNA kits can be stored at -20 °C.

### 5. Applications

All molecular biology applications, such as:

- PCR up to 5000bp
- DNA labeling
- DNA sequencing



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- PCR for cloning, TA-Cloning

### 6. Assay Procedure

95°C	2 minutes	
95°C	20 second	35-40 cycle
50-65 °C	20 second	
72°C	30-60 second	
72°C	5 minutes	

### 7. Safety

While the solutions used in the kit are not harmful to humans, it is advisable to avoid direct contact with them.

### 8. Quality Certifications

We have incubated 1ml DNA lambda with 10 units Klen-Taq DNA Polymerase at 65 °C. After 16 hours DNA in test buffer was stable (without degeneration).

### 9. Further information

This product is developed, designed, and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

### 10. Other Kits

### NOTE

All products have been produced by Karmania Pars Gene company in Rafsanjan.

