



For research use only

ISO9001

## T4 DNA Polymerase

Product	Quantity	Cat. No.	Remarks
T4 DNA Polymerase I	200 unit	EBT-1023	5 unit/ $\mu$ l

### Description

T4 DNA Polymerase catalyzes the 5'→3' synthesis of DNA from a primed single-stranded DNA template. Although possessing a potent 3'→5' proof-reading exonuclease, T4 DNA Polymerase contains no 5'→3' exonuclease activity. T4 DNA Polymerase can be used to fill 5' protruding ends with labeled or unlabeled dNTPs, or for the generation of blunt ends from DNA molecules with 3' overhangs. T4 DNA polymerase is purified from a recombinant *E.coli* strain.

### Concentration & Storage Condition

5 unit/ $\mu$ l. Store at -20°C.

### Storage Buffer

200 mM potassium phosphate , pH 6.5 at 25°C, 2 mM DTT and 50% glycerol.

### 10x Reaction Buffer

250 mM Tris-acetate, pH 7.7, 1 M potassium acetate, 10 mM DTT.

### Unit Definition

One unit is defined as the amount of enzyme required to catalyze the incorporation of 55 nmol of dTTP into acid-precipitable material in 30 min at 37°C using poly(dA) : oligo(dT) as a substrate.

### QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



For research use only

ISO9001

## T4 DNA Polymerase

Product	Quantity	Cat. No.	Remarks
T4 DNA Polymerase I	200 unit	EBT-1023	5 unit/ $\mu$ l

### Description

T4 DNA Polymerase catalyzes the 5'→3' synthesis of DNA from a primed single-stranded DNA template. Although possessing a potent 3'→5' proof-reading exonuclease, T4 DNA Polymerase contains no 5'→3' exonuclease activity. T4 DNA Polymerase can be used to fill 5' protruding ends with labeled or unlabeled dNTPs, or for the generation of blunt ends from DNA molecules with 3' overhangs. T4 DNA polymerase is purified from a recombinant *E.coli* strain.

### Concentration & Storage Condition

5 unit/ $\mu$ l. Store at -20°C.

### Storage Buffer

200 mM potassium phosphate , pH 6.5 at 25°C, 2 mM DTT and 50% glycerol.

### 10x Reaction Buffer

250 mM Tris-acetate, pH 7.7, 1 M potassium acetate, 10 mM DTT.

### Unit Definition

One unit is defined as the amount of enzyme required to catalyze the incorporation of 55 nmol of dTTP into acid-precipitable material in 30 min at 37°C using poly(dA) : oligo(dT) as a substrate.

### QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.