enzynomics

T7 DNA Polymerase

Cat.#	Conc.	Size
DP003S	10 units/μl	300 units
DP003L	10 units/μl	1,500 units

Store at -20℃

Supplied With: 10X T7 DNA Polymerase Buffer
100X BSA (10 mg/ml)
Sterile water

India Contact:

Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Ph: +91-11-42208000, 42208111, 42208222
Mobile: +91-9810521400
Fax: +91-11-42208444
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com

Product description
T7 DNA Polymerase dimer has DNA polymerase and strong 3′ → 5′ exonuclease activities. It catalyzes the replication of T7 phage DNA during infection. The high fidelity and rapid extension rate make it possible to copy long stretches of DNA template.

Characteristics
- Isolated from a recombinant source
- Second strand synthesis in site-directed mutagenesis
- Gap filling reaction (no strand displacement)

Applications
- Second strand synthesis in site-directed mutagenesis protocols.

Unit Definition
One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 37℃.

Reaction Conditions
1X T7 DNA polymerase Buffer, 1X BSA, Incubate at 37℃

For Research Use Only. Not for use in diagnostic procedures.

ISO9001 ISO14001 ISO13485

Storage Conditions
50 mM KPO4, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 7.0 @ 25℃, Store at -20℃.

Heat Inactivation
75℃ for 20 min

Quality Control
- Endonuclease-free

Cautions
- Long incubation is unnecessary due to high polymerization rate of the enzyme.
- It is not suitable for DNA sequencing.

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Standard reaction conditions
Example : Protocol for second strand synthesis/mutagenesis

Pre-annealed primer/template (0.4 pmol template/2 pmol primer)	10 μl
10X T7 DNA Polymerase Buffer	4 μl
dNTP mixture (2 mM each)	5 μl
T7 DNA Polymerase (10 units/μl)	1 μl
T4 DNA Ligase	5 units
Sterile water	Up to 40 μl

→ Incubate at 37℃ for 60 min.
→ Incubate 10 min at 70℃ to stop the reaction.

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