



Creative Enzymes

Diagnostic Enzymes

T7 DNA Polymerase

Product Information

Cat#	POL-024
Notes	A brief incubation period is required during the 37°C analysis.
Storage	Store at -20 °C.
Activity	10 U/μL
Description	T7 DNA polymerase is a template-dependent DNA polymerase that catalyzes DNA synthesis in the 5'→3' direction. This DNA polymerase exhibits high continuous synthesis capability, enabling the synthesis of long DNA fragments. The enzyme also demonstrates high 3'→5' exonuclease activity toward both single-stranded and double-stranded DNA.
Applications	Removal of residual genomic DNA and purification of covalently closed-circular DNA molecules; long-fragment primer extension reaction; 3'-end labeling of DNA; strand extension reaction at the target mutation site; 5'-overhang filling of DNA; second-strand cDNA synthesis; in situ detection of apoptosis-associated DNA fragments.
Specification	300 U
Expression System	E.coli
10× Reaction Buffer	400 mM Tris-HCL (PH7.5 at 25°C), 100 mM MgCl ₂ , 10 mM DTT
Activity Definitions	The amount of enzyme required to incorporate 10 nmoles of deoxyribonucleotide into a polynucleotide fragment (adsorbed onto DE-81) within 30 minutes at 37°C.

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