



Creative Enzymes

Diagnostic Enzymes

Terminal Deoxynucleotidyl Transferase

Product Information

Cat#	POL-016
Notes	5×ReactionBuffer contains CoCl ₂ , therefore it is incompatible with downstream applications. The reaction mixture must be purified by column centrifugation or by phenol/chloroform extraction and ethanol precipitation to remove CoCl ₂ .
Storage	Store at -25 ~ -15°C for 1 year.
Activity	20 U/μL
Description	Terminal deoxynucleotidyl transferase (TdT) is a template-independent DNA polymerase that catalyzes the addition of deoxynucleotide repeats to the 3' hydroxyl terminus of oligonucleotides, single-stranded, and double-stranded DNA. The TdT reaction requires a short sequence containing at least three bases as a primer. When RNA is used as a template, the performance of TdT is strictly dependent on the tertiary structure of the 3' end of the recipient RNA and the type of nucleotides. Generally, TdT is less efficient at reacting with RNA templates than with DNA templates.
Specification	500 U; 2500 U; 180000 U
Expression System	E.coli
Activity Definitions	The amount of enzyme required to incorporate 1 nmol of deoxyribonucleotide into a polynucleotide fragment at 37 °C for 60 min is defined as 1 activity unit (U).
Thermal Inactivation	Add EDTA and heat at 70 °C for 10 minutes.

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