Creative Enzymes®

# Terminal Transferase from Calf, Recombinant

*Cat. No. NATE-1926*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | Terminal transferase (TdT) is a template independent polymerase that catalyzes the addition of deoxynucleotides to the 3' hydroxyl terminus of DNA molecules. Protruding, recessed or blunt-ended double or single-stranded DNA molecules serve as a substrate for TdT. The 58.3 kDa enzyme does not have 5' or 3' exonuclease activity. The addition of Co2+ in the reacton makes tailing more efficient. |
| ***Synonyms*** | DNA nucleotidylexotransferase; terminal deoxyribonucleotidyltransferase; terminal addition enzyme; addase; deoxynucleotidyl terminal transferase; deoxyribonucleic acid nucleotidyltransferase; deoxyribonucleic nucleotidyltransferase; terminal deoxynucleotide transferase; TdT; EC 2.7.7.31; 9027-67-2 |

## Product Information

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| ***Species*** | Calf thymus |
| ***Source*** | E. coli |
| ***EC Number*** | EC 2.7.7.31 |
| ***CAS No.*** | 9027-67-2 |
| ***Molecular Weight*** | 58000 daltons |
| ***Activity*** | 42,000 units/mg |
| ***Concentration*** | 20,000 units/ml |
| ***Unit Definition*** | One unit is defined as the amount of enzyme catalyzing the incorporation of 1 nmol dTTP into acid-insoluble material in a total reaction volume of 50ul in 1 hour at 37°C using d(A)18 as primer. |

## Storage and Shipping Information

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| ***Storage*** | at -20°C |