

Terminal Transferase from Calf, Recombinant

Cat. No. NATE-1926

Lot. No. (See product label)

Introduction

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 Co^{2+} in the reaction makes tailing more efficient.

Synonyms DNA nucleotidyltransferase; 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

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 50 μl in 1 hour at 37°C using d(A)₁₈ as primer.

Storage and Shipping Information

Storage at -20°C