

DATA QUALITY SHEET



T4 polynucleotide kinase

FOR RESRCH USE ONLY

Cat. GC-010-0100, GC-010-0250, GC-010-0500, GC-010-1000, GC-010-5000

DESCRIPTION	Isolated from a recombinant E. coli strain this enzyme catalyzes the transfer of the terminal phosphate group of ATP to 5'-OH ends of DNA. T4 polynucleotide kinase is suited for labelling of 5'-OH ends of DNA with α - ^{32}P -ATP.
CONCENTRATION	10 units/ μl .
UNIT DEFINITION	One unit is the amount of enzyme that incorporates 1 nmol of acid-insoluble ^{32}P in 30 minutes at 37°C.
STORAGE BUFFER	10 mM K-phosphate buffer pH 7.0; 100 mM NaCl; 0.5 mM EDTA; 1 mM DTT; 0.01% Tween 20; 50% glycerol (v/v)
5x REACTION BUFFER	350 mM Tris-HCl pH 7,6; 50 mM MgCl_2 ; 25 mM DTT
STORAGE TEMPERATURE	Store T4 polynucleotide kinase below 0°C, preferably at -20°C, in a constant temperature freezer.
SHELF LIFE	2 years from date of receipt under proper storage conditions.
FUNCTIONAL ANALYSIS	Tested functionally in a unit activity test