

Product overview

Product Name	T5 Exonuclease
Catalog No.	ATE00015
Expression host	Purified D15 plasmid containing T5 phage from E. coli strain .
Restriction sites	T5 Exonuclease can degrade DNA along 5' → 3' direction. The enzyme can not only start digestion from 5' end, but also cut from linear or circular double-stranded DNA, but it cannot degrade supercoiled double-stranded DNA. T5 exonuclease also has single-stranded DNA endonuclease activity.
MW	35 kDa
Purity	>95% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.
Enzyme activity	10U/ul
Unit Definition	Within 30 minutes at 37 ° C in a 50 µl reaction system the amount of enzyme required to catalyze 1nmol acid-soluble deoxyribonucleotides from double-stranded DNA substrate is defined as one unit of enzyme activity (U).
Digestion reaction condition	1× Buffer [50 mM KAc , 20 mM Tris-Ac , 10 mM Mg(Ac) ₂ , 1 mM DTT (pH 7.9 @ 25°C] , 37°C

Product performance

Form	Liquid
Buffer	50 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% glycerol, 0.1% Triton X-100, pH 7.5 @ 25°C
Storage	Stored at -20 ° C and shelf life 12 months.

