Active Recombinant Bacteriophage Lambda Exonuclease

Cat. No. xis-56B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified from a strain of E. coli that overexpresses the exonuclease gene from bacteriophage Lambda.
Species	Bacteriophage Lambda
Source	E.coli
Description	Lambda Exonuclease is a highly processive 5′→3′ double-stranded exonuclease that degrades one strand of the duplex. Lambda exonuclease can initiate at blunt DNA or DNA containing 3′ single-stranded overhangs. Lambda Exonuclease has greatly reduced activity on non-phosphorylated DNA, single-stranded DNA and DNA having protruding 5′ single-stranded termini. Lambda exonuclease will not initiate at a nick or gap.
Bio-activity	80,000 U/mg
Molecular Mass	25,909 Daltons
Purity	>99% by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 10 nmol of acid-soluble deoxyribonucleotide from double-stranded substrate in 30 minutes at 37°C.
Storage	-25 to -15°C

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Concentration	5,000 U/mL
Storage Buffer	Supplied in: 25mM Tris-HCl, 50mM NaCl, 1mM DTT, 0.1mM EDTA, 50% glycerol pH 7.5 @ 25?C. Supplied with: 10X Lambda Exo Reaction Buffer: 670 mM Glycine, 25mM MgCl2, 10mM DTT, pH 9.4 @25°C

GENE INFORMATION

Gene Name	xis exonuclease [Enterobacteria phage lambda]
Official Symbol	xis
Synonyms	xis; exonuclease; NP_040616.1
Gene ID	2703469
Protein Refseq	NP_040616
UniProt ID	0902231Q

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