

Active Recombinant E.coli Exonuclease I

Cat. No. Exonuclease I-25E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Exonuclease I is derived from a plasmid carrying the E.coli exo I gene and is obtained through recombinant expression and purification. DNA Exonuclease Activity: Negative DNA Endonuclease Activity: Negative RNase Activity: Negative Residual gDNA: ≤1 E.coli genome
Species	E.coli
Description	It is a DNA-specific exonuclease that can catalyze the removal of nucleotides from linear single-stranded DNA in the 3' to 5' direction. It can gradually release deoxyribonucleic acid 5' monophosphate, but the terminal dinucleotide will remain intact. Moreover, it has no activity against double-stranded DNA or RNA.
Purity	≥ 95% by SDS-PAGE
Bio-activity	20U/μL
Unit definition	One unit refers to the amount of enzyme required to catalyze the release of 10 nmol of acid-soluble nucleotides within 30 minutes at 37 centigrade in a 50 μL reaction system.
Usage	1. Reaction system: PCR products: 5 μL Exonuclease I (E.coli): 0.5 μL (10U) 2. Incubate the mixture at 37 centigrade for 15 minutes. 3. Inactivate the Exonuclease I (E.coli) at 80 centigrade for 15 minutes. 4. The Purified product can then be used for downstream applications.

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Applications	1. Remove single-stranded primers in PCR reactions before Sanger DNA sequencing or SNP analysis. 2. Remove single-stranded primers in nested PCR reactions. 3. Remove single-stranded DNA with 3'-hydroxyl termini from nucleic acid mixtures. 4. Enzymatic purification of PCR products.
Note	1. This product should be placed on ice when in use, and it must be immediately returned to the storage at -20 centigrade after use; 2. Try to avoid freeze-thaw cycles of this product after receipt; 3. Please wear lab coat and disposable gloves when using; 4. This product should not be used directly for clinical diagnosis and treatment.
Stability	This product should be stored at -20 centigrade and can be stored for at least 12 months.
Storage	Store at -20 centigrade.
Storage Buffer	10mM Tris-HCl, 100mM NaCl, 5mM β -ME, 0.5mM EDTA, 100 μ g/ml BSA, 50% Glycerol, pH 7.5
Shipping	Dry Ice