

## Active Recombinant E.coli Exonuclease I

Cat. No. Exonuclease I-54E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified from a strain of <i>E. coli</i> that expresses the recombinant Exonuclease I gene.
<b>Species</b>	<i>E. coli</i>
<b>Source</b>	<i>E. coli</i>
<b>Description</b>	Exonuclease I cleaves single-stranded DNA in the 3'→5' direction, releasing 5' - mono/di-nucleotides and leaving double-stranded DNA molecules and the 5'-terminus intact. The enzyme is processive though digestion is inhibited by the presence of a 3' -terminal phosphate. Exonuclease I is tolerant of a wide-range of buffer conditions and can typically be added to reactions containing magnesium.
<b>Bio-activity</b>	185,000 U/mg
<b>Molecular Mass</b>	54,500 Daltons
<b>Purity</b>	>99% by SDS-PAGE
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to produce 10 nmol of acid-soluble total nucleotide in 30 minutes at 37°C.
<b>Storage</b>	-15 to -25°C
<b>Concentration</b>	20,000 U/ml

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**Storage Buffer**

Supplied in: 10mM Tris-HCl, 100mM NaCl, 1mM DTT, 0.5mM EDTA, 50% glycerol pH 7.5 @ 25°C.

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