



For research use only

ISO9001

5'-3' Exonuclease (Exo53)

Product	Quantity	Cat. No.	Remarks
5'-3' Exonuclease (Exo53)	500 unit	EBT-3047	10 unit/ μ l

Description

5'-3' Exonuclease (Exo53) catalyzes the removal of 5' mononucleotides from duplex DNA (5' \rightarrow 3' exonuclease activity). Unlike lambda exonuclease, Exo53 degrades both 5'-phosphorylated and 5'-dephosphorylated double stranded DNA. Exo53 is unable to initiate DNA digestion at nicks or gaps. Exo53 is purified from *E.coli* strain containing gene of exonuclease domain of *E.coli* DNA pol I.

Concentration & Storage Condition

10 unit/ μ l, Store at -20°C.

10x Reaction Buffer

100 mM Tris-HCl, pH7.9, 500 mM NaCl, 100 mM MgCl₂, 10 mM DTT.

Storage Buffer

25 mM Tris-HCl, pH 8.0, 50 mM NaCl, 1 mM DTT, 0.1 mM EDTA, and 50% glycerol.

Unit Definition

One unit is defined as the amount of enzyme required to produce 1 nmole of acid-soluble nucleotides from double-stranded DNA within 1 hr at 37°C.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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