

DNA Polymerase I Klenow Fragment

Catalog # N104



Version 21.1

Introduction

DNA Polymerase I, Large (Klenow) Fragment is the proteolysis product of E. coli DNA Polymerase I which exhibits 5'→3' DNA polymerase and 3'→5' exonuclease activity, but lacks 5'→3' exonuclease activity.

Package Information

Components	N104-01 5,000 U
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Klenow Fragment (5 U/μl)	1 ml
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10× Blue Buffer	2 ml
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Buffer Contents

10× Blue Buffer

100 mM Tris-HCl pH 7.9 @ 25 °C

500 mM NaCl

100 mM MgCl₂

10 mM DTT

Storage

Store at -30 ~ -15 °C , Transportation at ≤ 0 °C .

Applications

1. Using random primers to prepare probes.
2. DNA strand 3' protruding terminus resection or 5' protruding terminus filling to form Blunt Ends.

Source

Purified from a strain of recombinant E. coli that carries the E.coli DNA Polymerase I Klenow Fragment.

Unit Definition

One unit (U) is defined as the amount of enzyme that incorporates 10 nmol of dNTPs into acid insoluble materials in 30 min at 37°C.

Notes

The enzyme should be placed on ice and put back to -20 °C immediately after use.

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