

Datasheet for ABIN3188198

Klenow Fragment (3'→5' Exo-)

Overview

Quantity:	500 U
Application:	DNA Amplification (DNA Amp)

Product Details

Characteristics:	<i>Klenow Fragment (3'→5' Exo-) is the large fragment of E. coli DNA Polymerase I which retains polymerase activity but lacks 5'→3' exonuclease activity and has mutations that effectively abolish the inherent 3'→5' exonuclease activity.</i>
Components:	Enzyme supplied with 10X Reaction Buffer
Unit Definition:	<i>One unit is defined as the amount of Klenow Fragment (3'→5' Exo-) that catalyzes the incorporation of 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C using poly(dA-dT):poly(dA-dT) as a template:primer.</i>

Application Details

Comment:	<ul style="list-style-type: none"> • Dideoxy DNA sequencing of single or doublestranded DNA templates • cDNA secondstrand synthesis • Generate singlestranded DNA probes using random primers • Sitedirected DNA mutagenesis using synthetic oligonucleotides
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Restrictions:	For Research Use only
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Handling

Concentration:	5 U/μL
Buffer:	25 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, and 50 % (v/v) Glycerol.
Storage:	-20 °C

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)