

Datasheet for ABIN3188193 E. coli DNA Polymerase I

Overview

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

Product Details

Characteristics:	E.coli DNA Polymerase I is a DNA-dependent DNA polymerase with intrinsic 3'→5' and 5'→3' exonuclease activities. Nick translation is facilitated by this enzyme due to the removal of nucleotides ahead of the growing chain via 5'→3' exonuclease activity.
Components:	Enzyme supplied with 10X Reaction Buffer
Unit Definition:	One unit is defined as the amount of E. coli DNA Polymerase I 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.

Application Details

Comment:	<ul style="list-style-type: none"> • Generation of labeled DNA probes by nick translation • Secondstrand synthesis of cDNA
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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)
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