SibEnzyme®

DNA Polymerase I Large(Klenow) Fragment

S **E325**
200 units
5,000 u/ml

Lot: 11
Exp: 07/20
Store at -20C

For more details scan the code

Ph/F +7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Source:
An *E.coli* strain that carries the cloned DNA Polymerasel (Klenow fragment) gene.

DNA Polymerase I, Large (Klenow) Fragment is a proteolytic product of E.Coli DNA Polymerase I which retains polymerization and 3'->5' exonuclease activity, but has lost 5'->3' exonuclease activity.

Storage Conditions:
10 mM KH_2PO_4 (pH 7.5), 50 mM KCl, 7 mM 2-mercaptoethanol, 0,5 mM EDTA,50% glycerol.
Store at - 20^{0}C

1X SE-Klenow Fragment Buffer:
50 mM Tris-HCl,(pH 7.6@ 25^{0}C),10 mM $MgCl_2$, 5 mM DTT.

Applications:
-dideoxy sequencing;
-polishing ends;
-second strand cDNA synthesis.

Unit Definition:
One unit is defined as the amount of enzyme required to incorporate 10 nmol of dNTPs into an acid-insoluble material in 30 minutes at 37^{0}C.
Unit Assay Conditiens: 1x Klenow Buffer, 33 µM dNTPs including [^{3}H] - dTTP and 70 µg/ml denaturated calf thymus DNA.

Quality Control Assays:
Nonspecific endonuclease assay:
No appearance of nicked DNA was detected after incubation of 1µg supercoiled pUC19 DNA with 5 units of enzyme for 4 hours at 37^0 C.
No alteration of the pattern of DNA bands was detected after incubation of 1µg λ/HindIII DNA fragments with 5 units of enzyme in 50 µl of reaction mixture for 16 hours at 37^0 C.

Reagents Supplied with Enzyme:
10X SE-Klenow Buffer.

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