

DNA Polymerase I (E. coli)

Cat.# Conc. Size DP0025 10 units/µl 500 units DP002L 10 units/ul 2,500 units

Store at -20℃

Supplied With: 10X DNA Polymerase I Buffer Sterile water

India Contact:

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One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C.

Reaction Conditions

Product description

Characteristics

Applications

Unit Definition

activity

- Nick translation of DNA

- Second strand cDNA synthesis

- Second strand synthesis of cDNA

1X DNA Polymerase I Buffer Incubate at 37℃

For Research Use Only, Not for use in diagnostic procedures, ISO9001 ISO14001 ISO13485

DNA Polymerase I (E. coli) is over expressed and

isolated from *E*. *coli*. It has inherent $3' \rightarrow 5'$ and $5' \rightarrow 3'$ exonuclease activities other than its polymerase

Polymerase I allows nick translation by removing

- Nick translation of DNA to obtain probes with a high specific

activity. $5' \rightarrow 3'$ exonuclease activity of DNA

nucleotides ahead of the growing DNA chain.

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Product description

DNA Polymerase I (E. coli) is over expressed and isolated from *E*, *coli*, It has inherent $3' \rightarrow 5'$ and $5' \rightarrow 3'$ exonuclease activities other than its polymerase activity. $5' \rightarrow 3'$ exonuclease activity of DNA Polymerase I allows nick translation by removing nucleotides ahead of the growing DNA chain.

Characteristics

- Nick translation of DNA - Second strand cDNA synthesis

Applications

- Nick translation of DNA to obtain probes with a high specific activity - Second strand synthesis of cDNA

Unit Definition

One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C.

Reaction Conditions

1X DNA Polymerase I Buffer Incubate at 37°C

Storage Conditions

25 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 7.4 @ 25°C. Store at -20°C.

Heat Inactivation

75°C for 20 min

Ouality Control

- Endonuclease-free

Storage Conditions

Heat Inactivation

75°C for 20 min

Cautions

reactions.

Quality Control

- Endonuclease-free

pH 7.4 @ 25°C, Store at -20°C.

Cautions

- DNase I should purchase separately for nick translation reactions.

25 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

DNase I should purchase separately for nick translation



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Standard reaction conditions

Example

ssDNA (100 mers)	2.5 µg
10X Exonuclease I Buffer	2 µl
Exonuclease I	10~50 units
Sterile water	up to 20 µl

→Incubate the reaction at 37°C for 30 min.



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