enzynomics

DNA Polymerase I (*E. coli*)

Cat.#	Conc.	Size
DP002S	10 units/µl	500 units
DP002L	10 units/µl	2,500 units

Store at -20℃

Supplied With: 10X DNA Polymerase I Buffer
Sterile water

India Contact:

Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Ph: +91-11-42208000, 42208111, 42208222
Mobile: +91-9810521400
Fax: +91-11-42208444
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com

Product description

DNA Polymerase I (*E. coli*) is over expressed and isolated from *E. coli*. It has inherent 3′ → 5′ and 5′ → 3′ exonuclease activities other than its polymerase activity. 5′ → 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℃.

Reaction Conditions

1X DNA Polymerase I Buffer
Incubate at 37℃

For Research Use Only. Not for use in diagnostic procedures.

ISO9001 ISO14001 ISO13485

Storage Conditions

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

Heat Inactivation

75℃ for 20 min

Quality Control

- Endonuclease-free

Cautions

- DNase I should purchase separately for nick translation reactions.

LIFE TECH Life Technologies™
Your Molecular & Cell Technology Partner

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℃ for 30 min.

enzynomics

DNA Polymerase I (*E. coli*)

Cat.#	Conc.	Size
DP002S	10 units/µl	500 units
DP002L	10 units/µl	2,500 units

Store at -20℃

Supplied With: 10X DNA Polymerase I Buffer
Sterile water

India Contact:

Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Ph: +91-11-42208000, 42208111, 42208222
Mobile: +91-9810521400
Fax: +91-11-42208444
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com

Product description
DNA Polymerase I (*E. coli*) is over expressed and isolated from *E. coli*. It has inherent 3′ → 5′ and 5′ → 3′ exonuclease activities other than its polymerase activity. 5′ → 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℃.

Reaction Conditions
1X DNA Polymerase I Buffer
Incubate at 37℃

For Research Use Only. Not for use in diagnostic procedures.

ISO9001 ISO14001 ISO13485

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

Heat Inactivation
75℃ for 20 min

Quality Control
- Endonuclease-free

Cautions
- DNase I should purchase separately for nick translation reactions.

LIFE TECH Life Technologies™
Your Molecular & Cell Technology Partner

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℃ for 30 min.