

Bst DNA polymerase (Full length)

Cat.#	Conc.	Size
DP0055	5 units/μl	500 units
DP005L	5 units/μl	2,500 units

Store at -20°C

Supplied With: 10X Bst DNA Polymerase Buffer
Sterile water

India Contact:

Life Technologies (India) Pvt. Ltd.
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Email: customerservice@lifetechindia.com
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Product description

Full Length Bacillus *stearothermophilus* Bst DNA Polymerase is highly purified as a recombinant. Other than 5' → 3' polymerase activity it has double-strand specific 5' → 3' exonuclease activity, but lacks 3' → 5' exonuclease activity.

Characteristics

- Isolated from a recombinant source.

Quality control

- Purity: >99% on SDS-PAGE
- Endonuclease-free
- Exonuclease-free
- RNase-free

Unit definition

One unit is defined at the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 65°C.

Storage buffer

10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.1% Triton® X-100, pH 7.4 @ 25°C.

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

ISO9001 ISO14001 ISO13485

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Your Molecular & Cell Technology Partner

1X Reaction buffer

20 mM Tris-HCl, 10 mM (NH₄)₂SO₄, 10 mM KCl,
2 mM MgSO₄, 0.1% Triton® X-100, pH 8.8 @ 25°C.

Standard reaction conditions

Example : loop-mediated isothermal amplification method (LAMP)

10X Bst DNA Polymerase Buffer	2 μl
dNTP mixture (2.5 mM each)	2 μl
Inner primer sets	20 pmol
Outer primer sets	20 pmol
Bst DNA Polymerase (5 units/μl)	1.5 μl
Sterile water	Up to 20 μl

→ Incubate at 50 ~ 65°C for 60 min.

→ Incubate 10 min at 80°C to stop the reaction.

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