

## Bst DNA Polymerase (Glycerol-Free)

Catalog Number	LDG0012RF
Package	1,600 U / 8,000 U / Customized package

For full product information, images and publications, please visit [our website](#).



### Overview

#### Description

Bst DNA Polymerase (Large fragment) is an enzyme of *Bacillus stearothermophilus* DNA polymerase which can catalyze 5' → 3' polymerase activity but lacks 5' → 3' exonuclease activity. Bst DNA Polymerase offers strand displacement capabilities, making it ideal for isothermal amplification. The enzyme formulation does not contain glycerol and is compatible for further lyophilization process.

#### Components

Package	Items	Quantity
1,600 U	Bst DNA Polymerase (Large Fragment) (Glycerol-Free) (8 U/μL)	1 vial (1,600 U)
	10× Bst DNA Polymerase Reaction Buffer (Mg <sup>2+</sup> Free)	1 vial (1 mL)
	100 mM MgSO <sub>4</sub>	1 vial (1 mL)
8,000 U	Bst DNA Polymerase (Large Fragment) (Glycerol-Free) (8 U/μL)	1 vial (8,000 U)
	10× Bst DNA Polymerase Reaction Buffer (Mg <sup>2+</sup> Free)	3 vials (1 mL)
	100 mM MgSO <sub>4</sub>	3 vials (1 mL)

### Specifications

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**Expression System**

Escherichia coli

**Concentration**

8 U/ $\mu$ L

**Unit Definition**

One unit is defined as the amount of the enzyme incorporates 10 nmol of dNTP into acidinsoluble product in 30 minutes at 65°C.

**Application**

Loop-mediated Isothermal Amplification (LAMP)

**Purity**

>98% as determined by SDS-PAGE analysis.

**Form**

Liquid

**Instruction****Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

**Stability & Storage**

This product is stable after storage at:

- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

**Disclaimer** : For Research Use or Further Manufacturing Only.

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