

Materials Provided

Components	Size
Bst DNA Polymerase	1600 U/8000 U
Bst DNA Polymerase 10× Reaction Buffer	1.5 mL
100 mM MgSO4	1.5 mL

Product Details

Bst DNA Polymerase is a recombinant form of Bacillus stearothermophilus DNA Polymerase, Large Fragment produced in Escherichia coli. Bst DNA Polymerase contains 5′→3′ DNA polymerase activity with either DNA or RNA templates and strong strand displacement activity, but lacks 5′→3′ and 3′→5′ exonuclease activity.

Application

- Isothermal amplification (LAMP, RT-LAMP).
- DNA sequencing of rich GC sequence.
- Rapid sequencing of DNA templates (ng).

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 65°C.

Purity

>90% as determined by SDS-PAGE.

Enzyme Activity

>8 U/μL

Formulation

- Supplied as 0.2 μm filtered solution in 10 mM Tris-HCl, pH7.1 with glycerol as protectant.
- Contact us for customized product form or formulation.

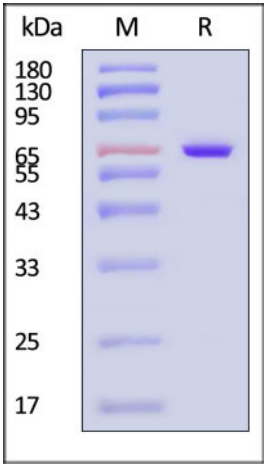
Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

- This product is stable after storage at:
- The product MUST be stored at -20°C or lower upon receipt.
 - 20°C for 3 months under sterile conditions.

SDS-PAGE



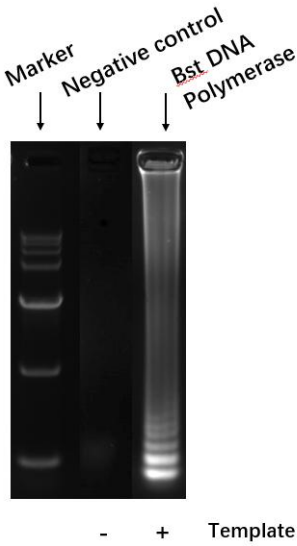
The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity



Bst DNA Polymerase

Catalog # DNI-B5113



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

