

# Bst DNA Polymerase, Full Length

## 1 Packing list

Components	HY-KE8002-250U
Bst DNA Polymerase, Full Length (5 U/μL)	50 μL
10× Bst FL Buffer	200 μL
dNTPs (10 mM each)	200 μL

## 2 Introduction

Bst DNA Polymerase is derived from *Bacillus stearothermophilus* and has 5'→3' DNA polymerase activity and double-stranded specific 5'→3' exonuclease activity, but lacks 3'→5' exonuclease activity. This product is expressed in *E. coli* and purified and isolated multiple times. It has no *E. coli* DNA residues and no endonuclease and exonuclease contamination. It can be used in DNA sequencing, and the template can be as low as the nanogram level.

## 3 Properties

Source	<i>Bacillus stearothermophilus</i>
Unit definition	The amount of enzyme required to incorporate 1 nmol of dNTPs into acid-insoluble precipitate within 30min at 65°C is defined as 1 unit.
10× Bst FL Buffer	200 mM Tris-HCl, 100 mM(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 500 mM KCl, 20 mM MgSO <sub>4</sub> , 1% Tween 20 (pH 8.8, 25°C).
Storage buffer	50 mM KCl, 10 mM Tris-HCl (pH 7.5), 1 mM DTT, 0.1 mM EDTA, 0.1% Triton X-100, 50% Glycerol.
Reaction conditions	1× Bst FL Buffer, 65°C warm bath.
Heat inactivation	80°C, 20min

## 4 Storage

-20°C, 1 year

## 5 Precautions

1. This product is for R&D use only, not for drug, household, or other uses.
2. For your safety and health, please wear a lab coat and disposable gloves to operate.