



Bst DNA/RNA Polymerase

User's Instruction

Description

Bst DNA/RNA Polymerase is a mixture of Bst DNA polymerase and extremely thermostable reverse transcriptase (65°C tolerant), which is suitable for isothermal amplification reaction of RNA. It can detect low-sensitivity RNA molecules. This enzyme is recommended in isothermal amplification experiments using RNA as a template. In addition, Bst DNA / RNA Polymerase can also perform isothermal amplification of DNA templates

Kit Contents

	1,600U
1. Bst DNA/RNA Polymerase (8U/μl)	200 μl
2. 10 × Isothermal Buffer (Mg ²⁺ free)	1.25 ml
3. 100 mM Mg ²⁺	1 ml

Note

- DNA/RNA isothermal amplification
- GC-rich rapid sequencing
- Rapid sequencing of micro-template DNA

Protocol

1. Set up isothermal amplification reaction as the following table (take 25 μl per well as an example):

Component	Volume
Bst DNA/RNA Polymerase (8U/μl)	0.5-1 μl
10 × Isothermal Buffer (Mg ²⁺ free)	2.5 μl
100 mM Mg ²⁺	1.5-2 μl
dNTP Mixture (10 mM each)	3 μl
Template (DNA/RNA)	1 ng-1 μg



*10X Primers	1.25-2.5 μ l
RNase-Free ddH ₂ O	Up to 25 μ l

- *10X Primers: 16 μ M FIP/BIP, 2 μ M F3/B3, 2-8 μ M LoopF/B each.

2. Thermocycling Conditions

- a) 60-65°C for 30-60 min
- b) 85°C for 5 min (inactivation)

Storage

Store at -20°C for three years. Avoid multiple freeze-thaw cycles.