

User Manual

Version 3.1

Product name: *Bst* DNA Polymerase (regular)

Cat #: BPR-100, BPR-200, BPR-OEM, B-PB10

Description:

rBst DNA Polymerase is the product of the DNA poll gene of the thermophilic bacterium *Bacillus stearothermophilus* (*Bst*). As an enzyme, it contains the 5' → 3' polymerase activity, but lacks the 3' → 5' exonuclease activity. It also has an optimal activity at 65°C and can be used to synthesize DNA in regions that containing template secondary structures or high GCs where other non-thermostable DNA polymerases may fail in sequencing. Therefore, *rBst* DNA Polymerase is useful in replicating difficult templates in various applications.

Protocol:

Add 5 µl 10x PCR buffer II.

Add primers to final conc of 400 nM.

Add 1 µl DNA polymerase (regular) (8 U/µl).

Add template.

Add H₂O to final volume of 50 µl.

Carry out thermal cycling.

Cycling parameters will vary depending on primer T_m and amplicon lengths.

Extension speed: 30 seconds / kb.