# Bst II DNA Polymerase (Large Fragment)

Bst II DNA Polymerase (Large Fragment) is a modified form of Bst DNA polymerase obtained by truncating the 5-3' exonuclease domain. Through directed evolution and recombinant expression in Escherichia coli, this enzyme has been engineered. It possesses robust 5'-3' DNA polymerase activity and strand displacement activity. The optimal reaction temperature for this enzyme is 65°C, and it is suitable for various isothermal amplification reactions.

Compared to the wild-type enzyme, Bst II DNA Polymerase (Large Fragment) exhibits faster amplification rates, enhanced tolerance to dUTP and salt, as well as improved stability.

Component supplied: **1. Bst II DNA Polymerase (Large Fragment): 200uL / 1mL**

**2. Bst II Reaction Buffer [10x]: 1mL / 3 x 1mL**

**3. MgSO? [100 mM]: 1mL / 3 x 1mL**

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| Catalog No. | 518101 |
| Size | 1600 units / 8000 units |
| Product Category | Isothermal Amplification |
| Concentration | 8U/uL |
| Storage/Stability | -20°C / 2 years |
| Shipping | Gel Packs |