

Bst II Pro DNA Polymerase Large Fragment (Glycerol-free)

Product Information

Cat#	DIA-455
Source	Bacillus stearothermophilus
Description	This engineered large fragment of Bacillus stearothermophilus DNA polymerase retains 5'→3' polymerase activity and strong strand displacement but lacks 5'→3' exonuclease activity. Suitable for isothermal amplification methods such as LAMP, HDA, and RCA. Combined with next-generation hot-start technology, polymerase activity is inhibited below 50 °C and rapidly activated above 50 °C. Provides faster amplification, higher specificity, salt tolerance, and thermal stability. Supports room-temperature reaction setup. Glycerol-free, suitable for lyophilized product development, with no excipients included.
Storage	–30 °C to –15 °C
Applications	LAMP/RT-LAMP isothermal amplification.
Product Overview	Product Components: 1600 U: Bst II Pro DNA Polymerase Large Fragment (Glycerol-free, 8 U/μL): 200 μL 10x IsothermalAmp Buffer (Lyo): 500 μL MgSO₄ (100 mM): 300 μL 8000 U: Bst II Pro DNA Polymerase Large Fragment (Glycerol-free, 8 U/μL): 1 mL 10x IsothermalAmp Buffer (Lyo): 3 × 1 mL MgSO₄ (100 mM): 2 × 1 mL Product Features: High specificity Outstanding storage stability Supports room temperature system setup
Package	1600/8000 U