

## Bst III DNA Polymerase (High sensitivity) (Glycerol-free)

### Product Information

<b>Cat#</b>	DIA-456
<b>Description</b>	This engineered Bst DNA polymerase retains 5'→3' polymerase activity and strong strand displacement while lacking 5'→3' exonuclease activity. Designed for high-efficiency, high-sensitivity isothermal amplification (e.g., LAMP). Includes accessory protein A, enhancing LAMP sensitivity by 10–100x. Integrates next-generation hot-start technology: enzyme activity is blocked below 50 °C and rapidly released above 50 °C, increasing specificity. Supports room-temperature reaction setup. Glycerol-free, suitable for lyophilization, with no excipients included.
<b>Storage</b>	–30 °C to –15 °C
<b>Applications</b>	LAMP/RT-LAMP isothermal amplification.
<b>Product Overview</b>	<p><b>Product Components:</b></p> <p>1600 U:            High-sensitivity Bst III DNA Polymerase (Glycerol-free, 8 U/μL): 200 μL            10x HS IsothermalAmp Buffer: 1 mL            MgSO<sub>4</sub> (100 mM): 1 mL            dNTP Mix (10 mM each): 1 mL</p> <p>8000 U:            High-sensitivity Bst III DNA Polymerase (Glycerol-free, 8 U/μL): 1 mL            10x HS IsothermalAmp Buffer: 3 x 1 mL            MgSO<sub>4</sub>(100 mM): 2 x 1 mL            dNTP Mix (10 mM each): 4 mL</p> <p><b>Product Features:</b></p> <p>Strong amplification performance: high sensitivity and rapid speed            Robust impurity tolerance: enables direct PCR from saliva, nasal swabs, and throat swabs            Supports room temperature system setup</p>
<b>Package</b>	1600/8000 U