



Creative Enzymes

Diagnostic Enzymes

Super Bst DNA Polymerase (2000 U/ μ L)

Product Information

Cat#	POL-014
Notes	Enzymes should be stored in an ice box or on an ice bath when used, and should be stored at -20°C immediately after use. For your safety and health, please wear lab coats and disposable gloves for operation.
Storage	Store at -25 ~ -15°C for 1 year.
Activity	2000 U/ μ L
Features	It has strong thermal stability, which is helpful for the amplification of complex templates and improves the specificity of the system.
Component	10 mmol/L Tris-HCl, 50 mmol/L KCl, 0.1 mmol/L EDTA, 1 mmol/L DTT, 0.1% Triton X-100, 50% Glycerol, pH7.5 at 25°C
Description	Super Bst DNA Polymerase is derived from Thermophilic <i>Geobacillus</i> sp. DNA Polymerase I, genetically engineered to remove its 5'→3' exonuclease activity. This product exhibits strong 5'→3' DNA polymerase activity, strand displacement activity, and dUTP tolerance, making it more suitable for contamination-resistant isothermal amplification reactions such as LAMP and CPA. Compared to Bst Plus DNA Polymerase, this product improves the thermostability of the Bst enzyme, contributing to enhanced amplification performance. This enzyme is suitable for both low-template and high-temperature LAMP reaction systems, effectively improving detection specificity and shortening detection time. Its thermostability also makes it suitable for developing hot-start Bst, further enhancing detection specificity.
Specification	20000 U; 100000 U; 200000 U
Activity Definitions	1 U refers to the amount of enzyme required to incorporate 10 nmol of dNTP into the acid-insoluble precipitate in 30 min at 65°C

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA