Creative Enzymes
Diagnostic Enzymes

Taq HS DNA Polymerase

Product Information

Cat#	ENZD-P02
Specification	500 U; 1000 U; 5000 U
Unit Concentration	5 U/μl
Description	Taq HS DNA polymerase is a hot-start Taq enzyme obtained by mixing Taq antibody and Taq DNA polymerase in a specific ratio. It exhibits higher stability and detection rate. Based on the thermostability of Taq antibody, Taq HS DNA polymerase maintains strict blocking at 55°C, minimizing non-specific amplification during sample mixing and temperature rise. When the reaction is held at 95°C for more than 30 seconds, Taq antibody is inactivated, and Taq enzyme activity is fully released, ensuring high amplification sensitivity and specificity in the PCR system. Activation of Taq HS DNA polymerase is unaffected by buffer pH, ionic strength, or other factors, making it suitable for various hot-start PCR and qPCR reactions based on Taq DNA polymerase. It is commonly used to amplify low-copy genes from complex templates (genomic DNA, cDNA) and is a hot-start Taq enzyme based on PCR/qPCR molecular diagnostic reagents. This product offers higher stability and detection rate.
Features	• Excellent amplification line pattern • Higher amplification sensitivity • Improved stability of the premixed liquid pressurization platform • Higher stability and detection rate
Applications	Hot-start PCR/qPCR; low-copy gene amplification; direct amplification of SNPs in liquid for genotyping; multiplex pathogen detection
Components	10 × Taq HS Buffer (Mg 2+ plus); dNTP Mix (10 mM each); Taq HS DNA polymerase (5 U/μl).
Quality Control	1. Excellent amplification sensitivity and plateau phase 2. Higher detection rate 3. Product stability testing

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Shipping and Storage Conditions	Store at -30 ~ -15℃, transport at ≤0℃.

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