



Creative Enzymes

Diagnostic Enzymes

Advanced Hotstart Taq DNA Polymerase

Product Information

Cat#	POL-006
Notes	Please use RNasefree supplies during the experiment. For your safety and health, please wear a lab coat and disposable gloves.
Storage	Store at -25 ~ -15°C for 2 years.
Activity	20 U/μL
Description	Advanced Hotstart Taq DNA Polymerase is a hot-start DNA polymerase that uses dual antibodies for double blocking. It blocks not only the 5'→3' polymerase activity of Taq DNA polymerase but also the 5'→3' exonuclease activity. Heating at the pre-denaturing temperature for 30 seconds completely inactivates the blocking antibodies, releasing both DNA polymerase and exonuclease activities. This dual blocking characteristic effectively prevents non-specific amplification caused by mismatches or primer dimers, and effectively inhibits the decrease in fluorescence signal due to probe degradation. This dual protection makes the in vitro detection reagent more stable during transportation or use at room temperature. Furthermore, this product undergoes an ultra-low residue processing process, resulting in extremely low levels of nuclease and host gDNA residues. Combined with an optimized buffer system, it effectively reduces non-specific amplification caused by primer-probe mixing during sample mixing, system heating, and long-term storage, supporting the development of pre-mixed primer-probe quantitative PCR systems.
Specification	1000 U; 10000 U; 25000 U; 100000 U