Creative Enzymes
Diagnostic Enzymes

HotStart High Tolerant Taq DNA Polymerase

Product Information

Cat#	POL-009
Storage	Store at -25 ~ -15°C for 2 years.
Activity	5 U/μL
Description	HotStart High Tolerant Taq DNA Polymerase is a hot-start DNA polymerase with dual antibody blocking, making it the optimal DNA polymerase for PCR amplification of uracil-containing template DNA modified with bisulfite. This product 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 antibody, releasing both DNA polymerase and exonuclease activities. This dual blocking feature 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.
Applications	This product is suitable for methylation detection projects and can withstand templates treated with bisulfite.
Specification	250 U; 500 U; 1000 U; 10000 U; 25000 U; 100000 U
Activity Definitions	Using activated salmon sperm DNA as a template/primer, at 74°C for 30 min, the amount of enzyme that ingests 10 nmol of complete nucleotides as acidic insoluble matter is defined as 1 activity unit (U).

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