

Taq DNA Polymerase

Product Information

Cat#	DIA-438
Source	E. coli
Description	Thermostable DNA polymerase expressed in E. coli from Thermus aquaticus gene and purified multiple times. Adds a 3' "A" overhang on PCR products for direct T-vector cloning. Glycerol-free, suitable for lyophilization.
Unit Definition	One unit (U) is defined as the amount of enzyme required to incorporate 10 nmol of dNTPs into acid-insoluble material in 30 minutes at 74 °C.
Storage	-20 °C
Contaminants	Free of E. coli DNA residues; free of endo-/exonuclease contamination
Applications	Routine PCR identification; cloning of small DNA fragments; A-tailing of blunt-end PCR products; Sanger sequencing; qPCR.

Product Overview	Product Components: 500 U: Taq DNA Polymerase (5 U/μL): 100 μL dNTPs (10 mM each): 200 μL 5× Taq Buffer with Mg²⁺: 1 mL × 2 5000 U: Taq DNA Polymerase (5 U/μL): 1 mL dNTPs (10mM each): 1 mL x 2 5× Taq Buffer with Mg²⁺: 1 mL x 2 Product Features: High efficiency: amplifies up to 8 kb from λDNA templates; efficiently amplifies ≤4 kb fragments High sensitivity: specific gene fragments amplified from as little as 0.05 ng human genomic DNA High quality: fully meets real-time PCR requirements Unique 5× Buffer formulation ensures stable, sensitive, and efficient PCR
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Package	500 U/5000 U
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