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Taq DNA Polymerase

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Product Summary

Cloned Taq DNA Polymerase is expressed and purified from E. coli that carries the Taq DNA Polymerase gene from *Thermus aquaticus*. Taq DNA polymerase is a thermostable enzyme that catalyzes the polymerization of nucleotides in the 5'-to-3' direction at 70-74°C and exhibits a half-time of 30 minutes at 95°C. This enzyme possess of 5'-3' exonuclease but without 3'-5' exonuclease activity (proofreading activity). The amplified products are up to 5 kb with 3' adenosine residues and able to use on TA cloning directly.

Unit Definition

One unit incorporates 10 nanomole of dNTPs into acid insoluble material in 30 minutes at 74°C. Including Taq DNA Polymerase, PCR Buffer (10 X concentrated: 500 mM KCl; 20 mM MgCl₂; 1.0% Triton X-100; 150 mM Tris-HCl, pH 8.75 at 25°C)

Quality Control

In accordance with ATGCell's ISO-certified Total Quality Management System, each lot of Avegene Taq DNA Polymerase is tested against predetermined specifications to ensure consistent product quality.

Storage

The recommended storage condition is -20°C. Avoid room temperature and repeated freeze/thaws. The enzyme can be diluted in 10 mM Tris (pH 7.6), 0.5 mg/ml BSA, 0.1 mM DTT, 0.1 mM EDTA. Use diluted enzyme the same day.

Ordering

Products	Cat. No.	Size
Taq DNA polymerase	ATGC-NA106	250 units
	ATGC-NA107	500 units
	ATGC-NA108	2,000 units
	ATGC-NA109	5,000 units
	ATGC-NA110	10,000 units