

## AdvTaq DNA Polymerase

### Product Information

<b>Cat#</b>	ENZD-P04
<b>Specification</b>	250 U; 1000 U; 3000 U
<b>Description</b>	AdvTaq DNA Polymerase is a chemically modified Taq DNA Polymerase whose activity is completely blocked at room temperature, preventing non-specific amplification and primer dimers during sample preparation and reaction heating. Its activity is only released after heating to 95°C. Compared to antibody-based hot-start Taq enzymes, AdvTaq DNA Polymerase offers more thorough and stringent activity blocking; compared to existing chemically modified hot-start Taq enzymes, AdvTaq DNA Polymerase requires only 5 minutes of activation time and is compatible with existing PCR programs. AdvTaq DNA Polymerase, combined with an optimized buffer system, significantly reduces non-specific amplification and primer dimers, resulting in high sensitivity, making it ideal for amplifying low-copy genes from complex templates (genomic DNA, cDNA). The PCR product has an A-terminus at the 3' end, allowing cloning into T-vectors.
<b>Features</b>	<p>Highly rigorous: Utilizing chemical modification, enzyme activity is completely blocked below 80°C.</p> <p>Rapid activation: Heating at 95°C for 5 minutes releases the active ingredient.</p> <p>High sensitivity: Suitable for amplifying low-copy genes from complex templates (genome, cDNA).</p> <p>Easy to use: Provides ready-to-use premixed solutions, greatly reducing experimental steps.</p>
<b>Applications</b>	Colony PCR
<b>Components</b>	10 x AdvTaq Buffer (Mg <sup>2+</sup> Plus) dNTP Mix (10 mM each) AdvTaq DNA Polymerase (5 U/μl)
<b>Shipping and Storage</b>	Store at -20°C



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### Conditions

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Tel: 1-631-562-8517 1-516-512-3133

Fax: 1-631-938-8127

Email: [info@creative-enzymes.com](mailto:info@creative-enzymes.com)

45-1 Ramsey Road, Shirley, NY 11967, USA