



The ENZYME Company

SUPERHOT TAQ DNA Polymerase
(for "Real-Time"- PCR)

Description:	Super <i>Taq DNA</i> Polymerase is the optimized mixture of <i>Taq DNA</i> Polymerase and anti- <i>Taq DNA</i> polymerase monoclonal antibodies. Antibodies block polymerase activity during set-up of the PCR reactions at ambient temperature (20-22 °C). The inhibition of <i>Taq DNA</i> polymerase is completely reversed when the temperature is above 70°C. The PCR products obtained with SuperTaq are free from unspecific products and from primer-dimers.
Unit Definition:	One unit defined as the amount of the enzyme required to incorporate 10 nmoles of dNTP into acid-insoluble DNA fraction in 30 minutes at 72°C.
<u>Recommended Reaction Buffer (x1):</u>	16mM (NH ₄) ₂ SO ₄ , 67 mM Tris-HCl (pH 8.8); 1,5-7mM MgCl ₂ 0.01% Tween-20
<i>Reaction buffer (x10)</i> <i>"incomplete" supplied:</i>	160 mM (NH ₄) ₂ SO ₄ , 670mM TrisHCl pH8,8, 0,1% Tween-20
<i>Reaction buffer (x10)</i> <i>"complete" supplied:</i>	160 mM (NH ₄) ₂ SO ₄ , 670mM TrisHCl pH8,8, 0,1% Tween-20, 25mM MgCL ₂
Storage Buffer:	10mM Tris-HCl (pH 7.0); 50mM KCl; 0.1mM EDTA; 50% glycerol
Storage Conditions:	Long term storage: -20°C
Concentration:	<i>5000 units/ml</i>
Recommended PCR conditions:	Use PCR conditions optimized for <i>Taq DNA</i> polymerase. In the case of low amount of DNA template, additional cycles may be used.
Applications:	Complex genomic or cDNA templates, low copy numbers targets, large numbers of thermal cycles, multiplex PCR

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