



***The ENZYME Company***

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

**Description:** Super *Taq DNA* Polymerase is the optimized mixture of *Taq DNA* Polymerase and anti-*Taq DNA* polymerase monoclonal antibodies. Antibodies block polymerase activity during set-up of the PCR reactions at ambient temperature (20-22 °C). The inhibition of *Taq DNA* 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.

**Reaction buffer (x10)**  
**"incomplete" supplied:** 160 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 670mM TrisHCl pH 8,8, 0,1% Tween-20

**Reaction buffer (x10)**  
**"complete" supplied:** 160 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 670mM TrisHCl pH 8,8, 0,1% Tween-20, 25mM MgCl<sub>2</sub>

**Reaction buffer (x10)**  
**"complete II KCl" supplied:** 500 mM KCl, 100 mM Tris-HCl (pH 8,8), 0,1% Tween-20, 15mM MgCl<sub>2</sub>

**Additionally provided:** 1 Tube MgCl<sub>2</sub> (100 mM)

**Storage Buffer:** 10mM Tris-HCl (pH 7.0); 50mM KCl; 0.1mM EDTA; 50% glycerol

**Storage Conditions:** Long term storage: -20°C

**Concentration:** 5000 units/ml

**Recommended PCR conditions:** Use PCR conditions optimized for *Taq DNA* 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

<b>Catalog #</b>	<b>Pack size</b>
119002	200 u
119010	1000 u

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