



The ENZYME Company

***Thermus aquaticus* DNA Polymerase, modified (Taq-T)**

Description *Taq* DNA Polymerase, modified (Taq-T) - modified form of the enzyme from the thermophilic eubacterium *Thermus aquaticus*. This enzyme has a modification in dNTP binding site. Due to the modification enzyme incorporates dUTP and dideoxynucleotides more efficiently if to compare with *Taq* DNA Polymerase. Enzyme may be used for cycle sequencing, recommended for dUTP/bio-dUTP incorporation reactions.

Storage and dilution buffer 10 mM K-phosphate buffer, pH7.4, 100 mM KCl, 0.1 mM EDTA, 50% glycerol, 0.1% Triton X-100, 0.1% Tween-20.

Unit definition One unit of activity is the amount of enzyme required to incorporate 10 nmoles of dNTP into acid-insoluble material in 30 minutes at 72°C.

Reaction buffer (x10) incomplete:

160 mM (NH₄)₂SO₄, 670mM TrisHCl pH8,8, 0,1% Tween-20, plus one Tube MgCl₂

Reaction buffer (x10) complete:

160 mM (NH₄)₂SO₄, 670mM TrisHCl pH8,8, 0,1% Tween-20, 25mM MgCl₂

Reaction buffer (x10) complete II KCl:

500 mM KCl, 100 mM TrisHCl pH8,8, 0,1% Tween-20, 15mM MgCl₂

plus one tube MgCl₂ (100mM)

Recommended MgCl₂ concentration 1,5mM – 6 mM

Storage -20°C

Concentration 5000 units/ml

Catalog #	Pack size
117005	500 u
117025	2500 u

Version ER18.10.07

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