

tiTaq DNA Polymerase

HOT START



tiTaq DNA Polymerase is a new generation “hot start” enzyme that is blocked at moderate temperatures and allows room temperature reaction setup.

E2715-01	200 U
E2715-04	500 U
E2715-02	1000 U
E2715-03	5000 U

Use of tiTaq DNA Polymerase allows for the increase of PCR specificity, sensitivity and yield in comparison to the conventional PCR assembly method.

Automatic “hot start” PCR is a fast and convenient method when assembling multiple PCR reactions.

Thermostable tiTaq DNA Polymerase:

- replicates DNA at 72°C and exhibits a half-life of 40 min at 95°C,
- catalyzes the polymerization of nucleotides into duplex DNA in the 5'→3' direction in the presence of magnesium ions,
- contains the 5'→3' exonuclease activity,
- lacks the 3'→5' exonuclease activity,
- adds extra A at the 3' ends.

tiTaq DNA Polymerase is recommended for use in PCR and primer extension reactions at elevated temperatures to obtain a wide range of DNA products up to 10 kb.

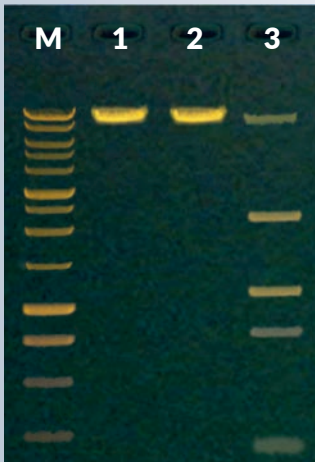


Fig. 1 PCR amplification using EURx tiTaq DNA Polymerase.

A 6.9 kb amplicon of *Bacillus* phage DNA was amplified with tiTaq DNA Polymerase. Reactions were incubated at 25°C for 30 minutes before amplification.

Lane M: molecular size marker – EURx Perfect Plus™ 1 kb DNA Ladder (E3131).

Lanes 1,2: PCR amplification reactions using 1.25 units of tiTaq DNA Polymerase, Pol Buffer B and 0.2 mM dNTPs in 50 µl reaction volume.

Lane 3: PCR amplification reaction using 1.25 units of Taq DNA Polymerase (E2500), Pol Buffer B and 0.2 mM dNTPs in 50 µl reaction volume.