



TECHNICAL SHEET

PRODUCT NAME: Taq DNA polymerase without exonuclease 5'-3' activity with glycerol (x 25000 U)

Code: MT-25TAQKG

Physical State: Liquid

Source: *Escherichia coli*

Description: Recombinant Taq DNA polymerase without exonuclease 5'-3' activity expressed and purified from *Escherichia coli*

Appearance: Clear

Purity: >95%

Activity: 10 U/ μ L

Storage Conditions: Storage at -20°C or -80°C.

Health & Safety Information: Good Laboratory Practices should be followed when handling this material. The end user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with the respective national regulations.

Presentation: 50 % glycerol, Tris Buffer with additives and salts, pH: 7.4.

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY.

Date: 17/08/2022



General description

Thermus aquaticus (Taq) DNA polymerase without 5' → 3' exonuclease activity (MT-25TAQk) is a truncated fragment of Thermus aquaticus (Taq) DNA polymerase, lacking the N-terminal 5'-3' exonuclease domain of the enzyme. This Taq DNA polymerase without 5'-3' exonuclease activity is a thermostable, processive, 5'→3' DNA polymerase. It catalyzes the polymerization of nucleotides into duplex DNA in 5' → 3' direction and it does not show a 3'→5 and 5' → 3' exonuclease activity. The enzyme is obtained recombinantly from Escherichia coli expressing the truncated version of Thermus aquaticus DNA polymerase. The enzyme has a molecular weight of approximately 62.4 kDa and it is more thermostable and robust than Taq. It is recommended for a wide range of applications: routine PCR, multiplex PCR, genotyping, and primer extension. The presence of glycerol makes this product perfect to be used in developing non-lyophilized molecular biology products.

Storage and stability

It is recommended to keep it at -80°C for optimum stability. Repeated freeze/thaw should be avoided. When stored under these conditions the polymerase retained full activity until the expiry date on the outer box label.

Quality control

Each lot of Taq DNA polymerase is tested for sensitivity. Purity is also checked by SDS-electrophoresis and HPLC.

If technical support is needed, please contact us (bioscience@certest.es)