

rTth DNA Polymerase

Code No. TTH-301

Lot No. *****

Size 250units

Source : *Escherichia coli* KP3998(pLEDNS)

Concentration : 5 units/ μ L

Unit Definition : One unit of enzyme is defined as the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid insoluble material in 30 minutes at 75 °C.

Assay Condition : 67 mM Tris-HCl (pH 8.8 at 25°C)
 16.6 mM (NH₄)₂ SO₄
 6.7 mM MgCl₂
 10 mM 2-mercaptoethanol
 200 μ M each dATP, dGTP, dCTP, ³H- dTTP
 20 μ g/mL ssM13mp 18 DNA
 6 μ g/mL M13 Sequencing Primer (24mer)

Storage Buffer : 10 mM Tris-HCl (pH 7.5 at 25°C)
 300 mM KCl
 1mM DTT
 0.1 mM EDTA
 1% Triton™ X-100
 500 μ g/mL BSA
 50% Glycerol

10X Reaction Buffer : 100 mM Tris-HCl (pH 8.9 at 25°C)
 800 mM KCl
 15 mM MgCl₂
 5 mg/mL BSA
 1% Cholic Acid Sodium Salt
 1% Triton™ X-100

dNTPs : 2 mM dATP, dGTP, dCTP, dTTP each

Quality Control

1. Ribonuclease Activity : When 100 units of this enzyme were incubated with 250 ng of RNA for 2 hours at 37°C, no ribonuclease activity was observed by agarose gel electrophoresis.
2. Endonuclease Activity : When 5 units of this enzyme were incubated with 1 μ g of λ -DNA for 16 hours at 75°C, no endonuclease activity was observed by agarose gel electrophoresis.
3. Nicking Activity : When 12.5 units of this enzyme were incubated with 250 ng of pBR322 for 16 hours at 75°C, no nicking activity was observed by agarose gel electrophoresis.
4. Purity (SDS-PAGE) : \geq 90 %

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information

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