

rTth DNA Polymerase

Code No. TTH-301
Lot No. *****
Storage Store at -20°C
Size 250units

Source : *Escherichia coli* KP3998(pLEDNS)
Reaction : $\text{DNA}_{\text{OH}} + \text{ndNTP} \rightarrow \text{DNA}-(\text{pdN})_n + \text{nPPi}$
Concentration : 5 units/ μl
Unit Definition : One unit is the amount of enzyme that incorporates 10 nmoles of total nucleotides into acid precipitable form in 30 minutes at 75 °C.
Assay Condition : 67 mM Tris-HCl(pH8.8 at 25 °C)
16.6 mM $(\text{NH}_4)_2 \text{SO}_4$
6.7 mM MgCl_2
10 mM 2-mercaptoethanol
200 μM each dATP,dGTP,dCTP, ^3H - dTTP
20 $\mu\text{g/ml}$ ssM13mp 18 DNA
6 $\mu\text{g/ml}$ M13 Sequencing Primer(24mer)
Storage Buffer : 10 mM Tris-HCl(pH7.5 at 25 °C)
300 mM KCl
1 mM DTT
0.1 mM EDTA
1 % Triton X- 100
500 $\mu\text{g/ml}$ BSA
50 % Glycerol
10 X Reaction Buffer : 100 mM Tris-HCl(pH8.9 at 25 °C)
800 mM KCl
15 mM MgCl_2
5 mg/ml BSA
1 % Cholic Acid Sodium Salt
1 % Triton X- 100
dNTPs : 2 mM dATP,dGTP,dCTP,dTTP each
Contaminant Assay
1.Ribonuclease Activity : When 100 units of this enzyme were incubated with 1 μg 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 μg 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 1 μg of pBR322 for 16 hours at 75 °C ,no nicking activity was observed by agarose gel electrophoresis.
Purity
1 .SDS-PAGE : 90 % pure

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