



COSMO BIO Co., LTD.

Inspiration for Life Science

rTth DNA Polymerase

Code No. TTH-301

Lot No. *****

Storage Store at -20°C

Size 250units

Source	:	<i>Escherichia coli</i> KP3998(pLEDNS)
Reaction	:	$\text{DNA}_{\text{OH}} + \text{ndNTP} \rightarrow \text{DNA}-(\text{pdN})_n + \text{nPPi}$
Concentration	:	<u>5</u> 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 <u>100</u> 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 <u>5</u> 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 <u>12.5</u> 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	:	<u>90</u> % pure

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