



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

Purchase of this product includes an immunity from suit under patents specified in the product insert to use only the amount purchased for the purchaser's own internal research. No other patent rights (such as 5' Nuclease Process patent rights) are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.



COSMO BIO Co., LTD.

Inspiration for Life Science

TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME, KOTO-KU, TOKYO 135-0016 JAPAN
TEL: (81)3-5632-9617 / FAX: (81)3-5632-9618 / e-mail: export@cosmobio.co.jp / URL:www.cosmobio.com