

# rTaq (recombinant Taq) DNA Polymerase



COSMO BIO Co., LTD.  
Inspiration for Life Science

Code No. TAP-211  
Lot No. \*\*\*\*\*  
Storage Store at -20°C  
Size 250units

Source : *Escherichia coli* JM109(pTQ1037)

Concentration : 5 units/ $\mu$ l

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

Assay Condition : 25 mM TAPS(pH9.3)  
50 mM KCl  
2 mM MgCl<sub>2</sub>  
200  $\mu$ M each of dATP,dGTP,dTTP  
100  $\mu$ M [ $\alpha$ -<sup>32</sup>P]-dCTP  
20  $\mu$ g activated salmon sperm DNA per 50  $\mu$ l reaction

Storage Buffer : 20 mM Tris-HCl(pH8.0)  
100 mM KCl  
0.1 mM EDTA  
1 mM DTT  
0.5 % Tween-20  
0.5 % Nonidet P-40  
50 % Glycerol

rTaq DNA Polymerase : 500 mM KCl  
10  $\times$  Buffer(+Mg) : 100 mM Tris-HCl(pH8.3 at 25°C)  
15 mM MgCl<sub>2</sub>

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

## Quality Control

1. Endonuclease Activity : When 40 units of this enzyme were incubated with 1  $\mu$ g of  $\lambda$ -DNA for 16 hours at 75°C, no endonuclease activity was observed after agarose gel electrophoresis.
2. Nicking Activity : When 40 units of this enzyme were incubated with 1  $\mu$ g of pBR322 for 16 hours at 75°C, no nicking activity was observed after agarose gel electrophoresis.

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