

rTaq (recombinant Taq) DNA Polymerase



COSMO BIO CO., LTD.
Inspiration for Life Science

Code No. TAP-201

Lot No. *****

Storage Store at -20°C

Size 250units

Source : *Escherichia coli* JM109(pTQ1037)

Concentration : 5 units/ μ 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
10 mM $MgCl_2$
200 μ M each of dATP,dGTP,dTTP
100 μ M [α - ^{32}P]-dCTP
20 μ g activated salmon sperm DNA per 50 μ 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 : 100 mM Tris-HCl(pH8.3 at 25°C)

Magnesium Chloride : 25 mM $MgCl_2$ (1~4mM(final concentration)are recommended)

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

Quality Control

1. Endonuclease Activity : When 40 units of this enzyme were incubated with 1 μ g of λ -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 μ g of pBR322 for 16 hours at 75°C, no nicking activity was observed after agarose gel electrophoresis.

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