

rTaq (recombinant Taq) DNA Polymerase

Code No. TAP-201
Lot No. *****
Storage Store at -20°C
Size 250units

Source : *Escherichia coli* JM109(pTQ1037)

Concentration : 5 units/μl

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 MgCl₂
200 μM each of dATP,dGTP,dTTP
100 μM [α -³²P]-dCTP
20 μg activated salmon sperm DNA per 50 μl 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 × Buffer : 100 mM Tris-HCl(pH8.3 at 25°C)

Magnesium Chloride : 25 mM MgCl₂(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 μg 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 μg of pBR322 for 16 hours at 75°C, no nicking activity was observed after agarose gel electrophoresis.

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