

KOD -Plus- Ver.2

Code No. KOD-211

Lot No. *****

Storage Store at -20°C

Size 200units

Concentration : KOD DNA polymerase 1.0 unit/ μ l
anti-KOD DNA polymerase antibody 1.6 mg/ml

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 : 20 mM Tris-HCl (pH7.5 at 25 °C)
8 mM MgCl₂
7.5 mM DTT
2.5 μ g BSA
150 μ M each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [³H]-dTTP)
7.5 μ g activated calf thymus DNA per 50 μ l reaction

Storage Buffer : 50 % Glycerol
50 mM Tris-HCl(pH8.0 at 25 °C)
0.1 mM EDTA
1 mM DTT
0.001 % Tween-20
0.001 % Nonidet P-40

Materials Provided 10x PCR Buffer for KOD -Plus- Ver.2
25mM MgSO₄
dNTPs : 2mM dATP,dGTP,dCTP,dTTP each

Quality Control

1.Nicking Activity : When 15units of this enzyme were incubated with 1 μ g of pBR322 for 4 hours at 75°C, no nicking activity was observed after agarose gel electrophoresis.

2.PCR Assay : The 6.8 kb cDNA fragment of DNA Polymerase ϵ gene could be amplified from HeLa total RNA reverse transcript.

This enzyme is produced as recombinant in *E.coli* and has very high amplification efficiency. Therefore, there is a possibility to amplify *E.coli* genomic DNA when using rRNA primers

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