

KOD -Plus- Neo

Code No. **KOD-401**

Lot No. *********

Size **200 units**

Concentration : KOD -Plus- Neo 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
25 mM KCl
0.05 % Tween™20
0.05 % Nonidet™ P-40

Materials Provided 10x PCR Buffer for KOD -Plus- Neo
25 mM MgSO₄
2 mM dNTPs (2mM dATP,dGTP,dCTP,dTTP each)

Quality Control

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

2.PCR Assay : The 17.5 kb β -globin region was amplified from human genomic DNA.

This enzyme is produced as a recombinant protein in *E.coli* and has very high amplification efficiency. Therefore, there is a possibility to amplify *E.coli* genomic DNA when primers for ribosomal RNA are used.

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