

# KOD Dash

Code No. LDP-101

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

Storage Store at -20°C

Size 250units

Concentration : 2.5 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 : 20 mM Tris-HCl(pH7.5 at 25 °C)  
8 mM MgCl<sub>2</sub>  
7.5 mM DTT  
2.5  $\mu$ g BSA  
150  $\mu$ M each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [<sup>3</sup>H]-dTTP)  
7.5  $\mu$ g activated calf thymus DNA per 50  $\mu$ l reaction

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

Materials Provided KOD Dash 10 × PCR Buffer  
dNTPs : 2mM dATP,dGTP,dCTP,dTTP each

## Quality Control

1. Nicking Activity : When 10units of this enzyme were incubated with 1  $\mu$ g of pBR322 for 1 hour at 75°C ,no nicking activity was observed after agarose gel electrophoresis.
2. Nuclease Activity : When 10units of this enzyme were incubated with 1  $\mu$ g of  $\lambda$  /HindIII-DNA for 1 hour at 75°C ,no nuclease activity was observed after agarose gel electrophoresis.
3. PCR Assay : The 8.5 kbp  $\beta$ -globin gene fragment could be amplified using human genomic DNA.

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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