KOD Dash

Code No. LDP-101

Lot No. ******

Storage Store at −20°C

Size 250units

Concentration : 2.5 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 :

20	mM	Tris-HCl(pH7.5 at 25 °C)
8	mM	$MgCl_2$
7.5	mM	DTT
2.5	μg	BSA
150	μM	each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [^{3}H]-dTTP)
7.5	μg	activated calf thymus DNA per 50 μl reaction

Storage Buffer :

50	%	Glycelrol
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 μg 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 μg of λ/*Hin*dⅢ-DNA for 1 hour at 75°C ,no nuclease activity was observed after agarose gel electrophoresis.

3. PCR Assay : The 8.5 kbp β-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.