Storage Conditions (−20 °C)
Shipping Conditions (−20 °C)

TOYOBO
Ideas & Chemistry

KOD Dash

Code No. LDP−101

Lot No. ******

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℃.

Assay Condition :

20	mM	Tris−HCl(pH7.5 at 25 ℃)
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 ℃)
0.1	mM	EDTA
50	mM	KCl
1	mM	DTT
0.1	%	Tween®−20
0.1	%	Nonidet® P−40

Materials Provided

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℃ ,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℃ ,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.

manual

TOYOBO CO., LTD.
Life Science Department
2-8, Dojima Hama 2-chome, Kita-ku, Osaka, 530-8230, Japan
TEL : 06-6348-3786 FAX : 06-6348-3833
Technical Service : 06-6348-3888
【URL】 http://lifescience.toyobo.co.jp/