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

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KOD FX

Code No. KFX−101

Lot No. ******

Size 200units(101),20units(101S)

Concentration	:	KOD FX DNA Polymerase	1	unit/μL
		anti−KOD FX 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℃.

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 50μL reaction

Storage Buffer :

50	%	Glycerol
50	mM	Tris−HCl(pH8.0 at 25 ℃)
0.1	mM	EDTA
1	mM	DTT
0.001	%	Tween−20
0.001	%	Nonidet P−40

Materials Provided
2x PCR Buffer for KOD FX
2mM dNTPs (2mM dATP,dGTP,dCTP,dTTP each)

Quality Control

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

2.PCR Assay : The 24kbp fragment of tPA(tissue−type plasminogen activator) gene could be amplified when using 200ng human genomic DNA as the template.

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

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