



KOD FX Neo

Code No.	KFX-201					
Lot No.	****					
Size	200 units					
Concentration		KOD FX Neo anti-KOD DNA Polymerase antibody			1 1.6	unit/µL 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 8 7.5 2.5 150 7.5	mΜ mΜ μg μΜ μg	Tris-HCl (pH7.5 at 25 °C) MgCl ₂ DTT BSA each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [³H]-dTTP) Activated calf thymus DNA per 50 μL reaction		
Storage Buffer		50 50 0.1 1 25 0.05 0.05	% mM mM mM %	Glycerol Tris−HCl (pH8.0 at 25 °C) EDTA DTT KCl Tween™ 20 Nonidet™ P−40		
Materials Provided		2x PCR Buffer for KOD FX Neo 2 mM dNTPs (2mM dATP,dGTP,dCTP,dTTP each)				
Quality Control 1.Nicking Activity		When 15 units of this enzyme were incubated with 1 μg of pBR322 for 4 hours at 75°C, no nicking activity was observed by agarose gel electrophoresis.				
2.PCR Assay		The 32.0 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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