

KOD DNA Polymerase

Code No. **KOD-101**

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

Size **250units**

Source	:	Escherichia coli JM109(pKOD1)
Concentration	:	2.5 units/ μ 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 ₂ 7.5 mM DTT 2.5 μ g BSA 150 μ M each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [³ H]-dTTP) 7.5 μ g activated calf thymus DNA per 50 μ L reaction
Storage Buffer	:	50 % Glycerol 50 mM Tris-HCl(pH8.0 at 25°C) 0.1 mM EDTA 1 mM DTT 0.1 % Tween TM 20 0.1 % Nonidet TM P-40
KOD DNA Polymerase 10 × PCR Buffer #1	:	60 mM (NH ₄) ₂ SO ₄ 100 mM KCl 1.2 M Tris-HCl(pH8.0 at 25°C) 1 % Triton TM X-100 0.01 % BSA
KOD DNA Polymerase 10 × PCR Buffer #2	:	60 mM (NH ₄) ₂ SO ₄ 100 mM KCl 1.2 M Tris-HCl(pH8.8 at 25°C) 1 % Triton TM X-100 0.01 % BSA
Magnesium Chloride	:	25 mM MgCl ₂ (final concentration 1~4mM are recommended)
dNTPs	:	2 mM dATP,dGTP,dCTP,dTTP each
Quality Control Nicking Activity	:	When 15 units of this enzyme were incubated with 1 μ g of pBR322 for 4 hours at 75°C, no nicking activity was observed after agarose gel electrophoresis.

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