

KOD -Multi & Epi-™

Code No. KME-101

Lot No. *****

Size 200 units

Concentration : KOD -Multi & Epi-™ 1.0 unit/μL
anti-KOD DNA Polymerase antibody

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 20 minutes at 75°C.

Assay Condition : 20 mM Tris-HCl (pH7.5 at 25 °C)
8 mM MgCl₂
7.5 mM DTT
2.5 μg BSA
150 μM each of dATP,dGTP,dCTP,dTTP(a mix of unlabeled and [³H]-dTTP)
7.5 μg activated calf thymus DNA per 50 μL reaction

Storage Buffer : 50 % Glycerol
50 mM Tris-HCl (pH8.0 at 25 °C)
0.1 mM EDTA
50 mM KCl
1 mM DTT
0.05 % Tween™ 20
0.05 % Nonidet™ P-40

Materials Provided 2 x PCR Buffer for KOD -Multi & Epi-™

Quality Control

- 1.Nicking Activity : When 15 units of enzyme included in this reagent were incubated with 1 μg of pBR322 for 4 hours at 20°C, no nicking activity was observed after agarose gel electrophoresis.
- 2.DNase Activity : When 5 units of enzyme included in this reagent were incubated with 1 μg of λ / HindIII -DNA for 1 hour at 20°C, no DNase activity was observed after agarose gel electrophoresis.
- 3.PCR Assay The 10 kbp KRAS 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.

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