Creative Enzymes®

KOD DNA Polymerase from Thermococcus kodakaraensis, Recombinant

Cat. No. NATE-1632

Lot. No. (See product label)

Introduction

Description	KOD is a high fidelity thermostable DNA polymerase that amplifies target DNA up to 6 kbp with superior accuracy and yield for PCR applications. The enzyme's 3'→5' exonuclease-dependent proofreading activity results in a lower PCR mutation frequency than any other commercially available DNA polymerase. The elongation rate and processivity are 5 times and 10 to 15 times higher, respectively, than for Pfu DNA polymerase, resulting in highly accurate and robust yield, in a short reaction time.

Product Information

Species	Thermococcus kodakaraensis
Source	E. coli
Formulation	50 mM Tris, pH 8.0, containing 500 mM sodium chloride, 5% glycerol, and 1 mM DTT
Purity	> 90% homogeneous by SDS-PAGE
Concentration	2.5 U/μl
Optimum pH	6.5
Optimum temperature	75°C
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.

Storage and Shipping Information

Storage	at -20°C