

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 75°C

temperature

Definition

Unit 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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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