Datasheet for ABIN5519437

EasyTaq® DNA Polymerase (with 2.5 mM dNTPs)

Overview

Quantity:	500 units
Application:	Polymerase Chain Reaction (PCR)

Product Details

Purpose:	EasyTaq® DNA Polymerase is purified from E. coli expressing a cloned DNA polymerase from Thermus aquaticus.
Brand:	EasyTaq®
Specificity:	The enzyme consists of a single polypeptide with a molecular weight of approximately 94 kDa. EasyTaq® DNA Polymerase has 5'-3' DNA polymerase activity and 5'-3' exonuclease activity. It lacks 3'-5' exonuclease activity. EasyTaq® DNA Polymerase is suitable for routine amplification. PCR products are unsuitable for PAGE.
Characteristics:	- Extension rate is about 1-2 kb/min. - Template-independent "A" can be generated at the 3' end of the PCR product. PCR products can be directly cloned into pEASY®-T vectors. - Amplification of genomic DNA fragment up to 4 kb.
Components:	DNA Polymerase, 10X Taq Buffer, 2.5 mM dNTPs, 6X DNA Loading Buffer
Unit Definition:	One unit of EasyTaq® DNA Polymerase incorporates 10 nmol of deoxyribonucleotide into acid-precipitable material in 30 minutes at 74°C.

Application Details

Application Notes:	Routine PCR,Colony PCR
Comment:	EasyTaq® DNA Polymerase has passed the following quality control assays: functional absence of double- and single-strand endonuclease activity, >99% homogeneous measured by SDS-PAGE. Each batch of EasyTaq® DNA Polymerase has been assayed for amplification efficiency to amplify p53 gene from 10 ng of human genomic DNA.

Application Details

Restrictions:	For Research Use only

Handling

Buffer:	Storage Buffer: 20 mM Tris-HCl (pH 8.0), 0.1 mM EDTA, 1 mM DTT, 100 mM KCl, 50 % glycerol, stabilizers. 10xEasyTaq® Buffer (with Mg2+): 200 mM Tris-HCl (pH 8.3), 200 mM KCl, 100 mM (NH4)2SO4, 20 mM MgSO4, others.
Storage:	-20 °C
Storage Comment:	at -20°C for two years
Expiry Date:	24 months

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)