

Datasheet for ABIN5519440

## EasyTaq® DNA Polymerase for PAGE

### Overview

Quantity:	2500 units
Application:	Polymerase Chain Reaction (PCR)

### Product Details

Purpose:	EasyTaq® DNA Polymerase for PAGE is purified from E. coli expressing a cloned DNA polymerase from <i>Thermus aquaticus</i> .
Brand:	EasyTaq®
Specificity:	The enzyme consists of a single polypeptide with a molecular weight of approximately 94 kDa. EasyTaq® DNA Polymerase for PAGE has 5'-3' DNA polymerase activity and 5'-3' exonuclease activity. It lacks 3'-5' exonuclease activity. This enzyme is supplied with unique buffer, and its PCR product is suitable for SDS-PAGE and agarose gel electrophoresis.
Characteristics:	<ul style="list-style-type: none"> <li>- Extension rate is about 1-2 kb/min.</li> <li>- Unique buffer system compatible with PAGE.</li> <li>- Template-independent "A" can be generated at the 3' end of the PCR product. PCR products can be directly cloned into pEASY®-T vectors.</li> <li>- Amplification of genomic DNA fragment up to 3 kb.</li> </ul>
Components:	DNA Polymerase, 10X Taq Buffer, 6X DNA Loading Buffer
Unit Definition:	One unit of EasyTaq® DNA Polymerase for PAGE incorporates 10 nmol of deoxyribonucleotide into acid-precipitable material in 30 minutes at 74°C.

### Application Details

Application Notes:	Short fragment PCR
Comment:	EasyTaq® DNA Polymerase for PAGE 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 for PAGE has been

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## Application Details

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assayed for amplification efficiency to amplify p53 gene from 10 ng of human genomic DNA.

Restrictions: For Research Use only

## Handling

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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 for PAGE (with Mg<sup>2+</sup>): 200 mM Tris-HCl (pH 8.3), 200 mM KCl, 100 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 20 mM MgSO<sub>4</sub>, others

Storage: -20 °C

Storage Comment: at -20°C for two years

Expiry Date: 24 months

## Publications

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