



Certificate of Analysis

PRODUCT: *EasyTaq*[®] DNA Polymerase

CAT. NO.
AP111

AMOUNT
500 units/ 6×500 units/ 4×2500 units/
10×5000 units

LOT NUMBER
N20902

SHELF LIFE
Two years

STORAGE CONDITIONS
Store at -20 °C

SHIPPING CONDITIONS
Dry ice (-70 °C)

DESCRIPTION

EasyTaq[®] DNA Polymerase is purified from *E. coli* expressing a cloned DNA polymerase from *Thermus aquaticus*. 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.

- The 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.

PACKAGE CONTENTS

Component	AP111-01/11	AP111-02/12	AP111-03/13	AP111-04
<i>EasyTaq</i> [®] DNA Polymerase	500 U×1	500 U×6	2500 U×4	5000 U×10
10× <i>EasyTaq</i> [®] Buffer	1.2 ml ×1	1.2 ml ×6	1.2 ml ×20	1.2 ml ×100
2.5 mM dNTPs	- / 800 µl ×1	- / 800 µl ×6	- / 800 µl ×20	-
6×DNA Loading Buffer	1 ml×1	1 ml×2	1 ml×4	1 ml×20

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QUALITY CONTROL DATA

Assay	Standard	Result
PCR	Enzyme was used to amplify target genes from human/plant genomic DNA, cDNA, plasmids. The enzyme produced high yields of each target.	Meets standards
Sensitivity	MycT58 plasmid was used as a template with a gradient dilution (10^6 copies/ μ l, 10^5 copies/ μ l, 10^4 copies/ μ l, 10^3 copies/ μ l). The enzyme showed high sensitivity in PCR.	Meets standards
Contamination	Free contamination from the host genome	Meets standards



Notice to Purchaser

All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

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A handwritten signature in black ink that reads "Heng Zheng".

Manager, Quality Control Department

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