

ROMAX Plus

PCR Master Mix (2X)

Store at -20 °C

For DNA Amplification

ROMAX Plus, 2X: 1.25 ml

Cat NO: EB983034

By ROJE

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www.rojetechnologies.com

Description

ROMAX Plus,2X which is a highly enhanced version of ROMAX 2X provides a complete ingredient needed for PCR include; Taq DNA polymerase, PCR buffer, dNTPs, except DNA template and primers. By reducing pipetting steps, ROMAX Plus, 2X help to reduce contamination. The enzyme consists of a single polypeptide with molecular weight of approximately 94kDa. It has 5'-3' DNA polymerase activity and 5'-3' exonuclease activity. It lacks 3'-5' exonuclease activity. This enzyme is suitable for routine amplification.

Application

- High throughput PCR.
- Routine PCR
- Generation of PCR products for TA. Cloning
- RT-PCR

Protocol

1. Thawing ROMAX Plus,2X; then gently invert and briefly centrifuge.

2. Place PCR tube on ice and add following component to each tube.

ROMAX Plus, 2X	25 µl
Forward primer (10 µM)	1µl
Reverse primer (10 µM)	1µl
Template	Variable
Water for Molecular Biology	Up to 50µl
Total volume	50µl

3. Spin down the PCR tube and run the PCR program.

Step	Temp	Time	Cycle
Initial denaturation	95 °C	1-3 min	1
Denaturation	95 °C	30 s	30
Annealing	T _m	30 s	
Extension	72	1 min/Kb	
Final Extension	72	5-15 min	1

Certificate of analysis

Endo deoxyribonuclease Assay

No detectable degradation of DNA was observed after incubation of 1µg of

pUC19 DNA with 25µL of ROMAX Plus, 2X in 50µL of reaction mixture for 4 hours at 37°C and at 70°C.

Exodeoxyribonuclease Assay

No detectable degradation of DNA was observed after incubation of 1µg of lambda DNA/HindIII fragments with 25µL of ROMAX Plus (2X) in 50µL of reaction mixture for 4 hours at 37°C and at 70°C.

Ribonuclease Assay

No contaminating RNase activity was detected after incubation of 1µg of [3H]-RNA with 25µL ROMAX Plus, 2X in 50µL of reaction mixture for 4 hours at 37°C and at 70°C.

Functional Assay

ROMAX Plus, 2X was tested for amplification of 1,110 bp single copy gene from human genomic DNA.

Quality authorized by: E.Shahvazian