



2X Taq PCR Master Mix

Catalog #	Pack size	Price(\$)
ZP00101-01	100 rcs (2x1,25ml)	30.00
ZP00101-02	2 x 100 rcs (4x1,25ml)	54.00

Description:

2X Taq Master Mix is a premixed, ready-to-use solution containing Taq DNA Polymerase, dNTPs, MgCl₂ and Reaction Buffer at optimal concentrations for efficient amplification of DNA templates by PCR. The 2X Taq Master Mix has been optimized for use in routine PCR for amplifying DNA templates .

Source:

E. coli strain that carries the Taq DNA Polymerase gene from *Thermus aquaticus*.

PCR Master Mix, 2X:

50 units/ml of Taq DNA Polymerase supplied in a proprietary reaction buffer (pH 8.5), 400µM each of dATP, dGTP, dCTP, dTTP, 3mM MgCl₂.

Applications:

PCR. 3' A-tailing of blunt ends, compatible with Vectors.

Performance and purity tests:

Tested for the absence of endodeoxyribonucleases and exodeoxyribonucleases. Performance is tested on single-copy genes of human and mouse DNA.

Endodeoxyribonuclease Assay:

No detectable conversion of covalently closed circular DNA to nicked DNA was observed after incubation of 25 µl of 2x PCR Master Mix with 1 µg of pUC19 DNA in 50 µl for 4 hours neither at 37°C nor at 70°C.

Protocol:

It's strongly recommended to settle-up all reactions in ice to avoid formation of unspecific products or primer-dimers formation.

Add in a thin walled PCR tube:

component	volume	final conc.
2X Taq Master Mix	25ul	1 X
forward primer	variable	0.3-1.0uM
reverse primer	variable	0.3-1.0uM
Template DNA	variable	10 pg-1µg
Sterile Deionized water	up to 50 µl	

- Gently vortex the sample and briefly centrifuge to collect all drops to the bottom of the tube.
- Overlay the sample with mineral oil or add an appropriate amount of wax if the thermal cycler is not equipped with a heated lid.
- Place the samples in a thermocycler and start **the optimal PCR program**.

Storage:

MasterMix should be stored at -20°C. Repeated (up to 10 times) freezing - defreezing do not cause the reduction in PCR performance.

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