



Maximo Taq DNA Polymerase 2X-preMix

Features:

Maximo Taq DNA Polymerase 2X-preMix provides robust PCR performance in a wide range of PCR applications and different templates. Best value in terms of cost per unit. The optimized mixture of all components reduces pipetting mistakes and ensures repeatable results - every day.

Applications:

- Standard / General PCR
- optimized for high specificity
- High-throughput PCR, automated pipetting, or plate based PCR
- Gene mutation
- T/A cloning

Description:

Maximo Taq DNA Polymerase 2X-preMix is optimized and ready-to-use mixture of all components for a successful PCR. Only your primers and your DNA Template has to be added.

Maximo Taq DNA Polymerase 2X-preMix contains a thermostable DNA polymerase that possesses a 5'→3' polymerase activity and a double-strand specific 5'→3' exonuclease activity. The enzyme consists of a single polypeptide with a molecular weight of 94KD.

Concentration: the mixture is 2X concentrated

Unit definition:

One unit incorporates 10 nmol of deoxyribonucleotide into acid-precipitation material in 30min at 74 degree

List of components:

0.1U/ul Taq DNA Polymerase, 0.4 mM dATP, 0.4 mM dGTP, 0.4 mM dCTP, 0.4 mM dTTP, 4 mM MgSO₄, 20 mM KCl, 16 mM (NH₄)₂SO₄, 20 mM Tris-HCl, pH8.8

Quality control:

- PCR with various templates – genomic DNA, Phage Lambda DNA
- 2 kb DNA amplification from 50 ng DNA
- batch variation and level of bacterial DNA contamination

Transportation: on blue ice

Storage: at -20°C for 24 months

Usage:

Components	Volume per reaction
2X Taq mastermix	25 µl
Up-stream primer (10 µM stock)	0,5-2.5 µl
Down-stream primer (10 µM stock)	0.5-2,5 µl
Template DNA	0.1-15 ng/ml plasmid DNA 1-10 µg/ml genomic DNA
Sterile dest. Water (molecular grade)	up to 50 µl total reaction volume

Note:

- vortex all solutions and spin down carefully before using
- dispense on ice and spin down again
- may you have to optimize the MgCl₂ concentration for best result

.. a good decision ..

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General Thermo-Cycler protocol:

Step	Time	Temperature
Initial denaturation	1-5 min	94-95°C
25-30 Cycles: Denaturation Annealing Extension	10-25 sec 10-25 sec 60 sec	94-95°C 45-70°C 68-72°C per 1kb
Final extension	5 min	68-72°C

Ordering information:

Cat.-no	Description	Amount
S113	Maximo Taq DNA Polymerase 2X-preMix	1x100 rcs (2x1.25 ml)
S114	Maximo Taq DNA Polymerase 2X-preMix	10x100 rcs (20x1.25 ml)

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