Features:

Maximo Taq DNA Polymerase provides robust PCR performance in a wide range of PCR applications and different templates. Best value in terms of cost per unit.

Applications:

- Standard / General PCR - Multiplex PCR
- High-throughput PCR
- Primer extension

- Gene mutation
- T/A cloning

Description:
Maximo Taq DNA Polymerase is a thermostable DNA polymerase that possesses a 5´→3´ polymerase activity and adouble-strand specific 5´→3´ exonuclease activity. The enzyme consists of a single polypeptide with a molecular weight of 94KD.

Concentration: 5 u/µl
Unit definition:
One unit incorporates 10 nmol of deoxyribonucleotide into acid-precipitation material in 30min at 74 degree

Storage Buffer:

25mM Tris-HCl (pH8.0), 100mM KCl, 0.1mM EDTA, 1mM DTT, 50% Glycerol, 0.5% Nonident P40, 0.5% Tween 20
Reaction Buffers supplied with the enzyme:
10X Buffer I: 500mM KCl, 100mM Tris-HCl, pH 9.0, 1% Triton X-100, 15mM $MgCl_2$

10X Buffer II: 500mM KCl, 100mM Tris-HCl, p H 9.0. 1% Triton X-100 **$MgCl_2$:** 25 mM

Quality control:

- PCR with various templates – genomic DNA, Phage Lambda DNA - 3 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 reation
10X reaction buffer I or buffer II 5 µl
25 mM MgCl2 1.5 µl (if you use buffer II) dNTP-Mix (40mM) 1.0 µl

Up-stream primer (10 µM stock) 0,5-2.5 µl Down-stream primer (10µM stock) 0.5-2,5 µl Template DNA
0.1-15 ng/ml plasmid DNA

1-10 µg/ml genomic DNA
Maximo Taq DNA Polymerase (5 u/µl) 0.2 - 1.0 µl
Sterile dest. Water (molecular grade) up to 50 µl total reaction volume