

**Features:**

- All components like: Taq polymerase, dNTP's, reaction buffers, enhancers and stabilizers are lyophilized
- Transportation and at room-temperature
- simple, and fast setting up procedure for high yield and repeatable results

**Description:**

Maximo Dry Master-Mix 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 to the 20 µl assay.

Maximo Dry Master-Mix contains a thermostable DNA polymerase that possesses a 5' → 3' polymerase activity and a double-stranded specific 5' → 3' exonuclease activity. The enzyme consists of a single polypeptide with a molecular weight of 94kDa.

**List of components:**

12x8 lyophilized PCR-Tubes (0,2ml) "flat cap",

**Unit definition:**

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

**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:** at room temperature

**Storage:** store at room-temperature in an aluminium coated bag or on another dry place; humidity < 65 % when sealing is opened

## Usage:

Components	Volume per reaction
1 Tube of Maximo Dry Mastermix	
Forward Primer:	0,2-1 $\mu$ M – 0,4-2 $\mu$ l / 10 $\mu$ M
Reverse Primer	0,2-1 $\mu$ M – 0,4-2 $\mu$ l / 10 $\mu$ M
Template DNA	1-50 ng
Sterile dest. Water (molecular grade)	up to 20 $\mu$ l total reaction volume

## Note:

- vortex all solutions and spin down carefully before using

## General Thermo-Cycler protocol:

Step	Time	Temperature
Initial denaturation	2 min	94°C
30 Cycles: Denaturation Annealing x1 Elongation X2	30 sec 30 sec 0,5-3 min	94°C 50-68°C 72°C per 1kb
Final extension	2 min	70-72°C

## Note:

- x1 depends on the melting temperature of the primers

- X2 depends on the length of the fragments (1 min/kb)

Prod. No.	Description	Quantity
S9295	Maximo Dry Master Mix	12x 8 flat-cap