



## Maximo Dry PCR Master Mix

### Cat. S295; 192 x 20µl Tube

Ready-to-use lyophilized PCR-Master-Mix in 8-tubes-strips

#### Features:

- All components: 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 µM – 0,4-2µl / 10 µM
Reverse Primer	0,2-1 µM – 0,4-2µl / 10 µM
Template DNA	1-50 ng
Sterile dest. Water (molecular grade)	up to 20 µl total reaction volume

#### Note:

- vortex all solutions and spin down carefully before using

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**General Thermo-Cycler protocol:**

Step	Time	Temperature
Initial denaturation	2 min	94°C
<b>30 Cycles:</b>		
Denaturation	30 sec	94°C
Annealing <sup>x1</sup>	30 sec	50-68°C
Elongation <sup>x2</sup>	0,5-3 min	72°C per 1kb
Final extension	2 min	70-72°C

**Note:**

- <sup>x1</sup> depends on the melting temperature of the primers
- <sup>x2</sup> depends on the length of the fragments (1 min/kb)

**Ordering information**

Cat.-no	Description	Amount
S295	Maximo Dry Master Mix	192 Flat Cap PCR-tubes or Plates
S295H	Maximo Dry Master Mix (Hot-Start)	192 Flat Cap PCR-tubes or Plates

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