

AmiPol 5X Master Mix

Cat. No.	Pack Size	Conc. (MgCl ₂)
MTE0370	1 ml (= 250 reactions)	7.5 mM
MTE0004	1 ml (= 250 reactions)	12.5 mM

For *in vitro* use only

Description:

AmiPol 5X Master Mix is a premixed ready-to-use solution containing all reagents required for PCR (except template, primers and water).

Applications:

- Suited for a wide range of PCR assays
- TA cloning

Reagent Composition:

- **AmiPol DNA polymerase**
- **5 x MTE Buffer 3 with detergent**
0.4 M Tris-HCl, 0.1 M (NH₄)₂SO₄, 0.1% w/v Tween-20
- **7.5 mM MgCl₂ or 12.5 mM MgCl₂**
1 x PCR solution – 1.5 mM MgCl₂ or 2.5 mM MgCl₂
- **1 mM dNTPs of each**
1 x PCR solution – 200 μM dATP, 200 μM dCTP, 200 μM dGTP and 200 μM dTTP

Unit definition:

One unit is defined as the amount of enzyme required to catalyze the incorporation of 10 nmol of dNTP into an acid-insoluble form in 30 minutes at 74°C.

Shipping and Storage conditions:

Routine storage: -20°C

Shipping and temporary storage for up to 1 month at room temperature or storage for up to 6 months at 2-8°C has no detrimental effects on the quality of AmiPol 5 x Master Mix.

Recommended PCR reaction mix:

Component	Volume	Final conc.
Amipol 5 x Master Mix	4 μl	1 x
Forward primer (10 pmol/μl)	0.2-0.6 μl	0.1-0.3 μM
Reverse primer (10 pmol/μl)	0.2-0.6 μl	0.1-0.3 μM
Template DNA	x μl	5-50 ng/μl
Add H ₂ O	Up to 20 μl	

Recommended PCR cycles:

Operation	Temp.	Time	Cycles
Initial denaturation	95°C	3-5 min	1
Denaturation	95°C	20-40 s	25-30
Annealing	54-66°C	30-60 s	
Elongation	72°C	40 s - 4 min	
Final elongation	72°C	5-10 min	

Recommendations:

We recommend using **AmiPol 5X Master Mix** in any PCR application that will be visualised by agarose gel electrophoresis and ethidium bromide staining.

We do not recommend using the 5X Master Mix for PCR reactions where detergent free buffer system is required (detergent free 5X Master Mix available upon request).

Safety warnings and precautions:

This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.

Related products:

Cat. No.	Product	Pack size
MTE0001	AmiPol DNA Polymerase	500 U
MTE0002	AmiPol DNA Polymerase	1000 U
MTE0003	AmiPol DNA Polymerase	2000 U
MTE0006	AmiPol Hot Start DNA Polymerase	500 U
MTE0007	AmiPol Hot Start DNA Polymerase	1000 U
MTE0005	AmiPol 5X Master Mix RTL 12.5 mM MgCl ₂	250 rxns
MTE0371	AmiPol 5X Master Mix RTL 7.5 mM MgCl ₂	250 rxns
MTE0017	MTE dNTP Mix (20 mM each)	20 μmol
MTE0018	MTE dNTP Mix (20 mM each)	100 μmol
MTE0020	MTE 100 mM dNTP Set	4 x 25 μmol
MTE0021	MTE 100 mM dNTP Set	4 x 100 μmol