



73 Ridgeway Road
Candler, NC 28715
800.767.0665

Sales@PhenixResearch.com
www.PhenixResearch.com

2x Taq Mastermix

Catalogue Numbers:

DNP-105 100 Reactions
DNP-205 500 Reactions

Features

- Convenient pre-mixed, pre-optimized 2x solution
- Reduced risk of contamination
- Dramatically decreases the time required for reaction set-up
- Reproducible results

Applications

- Routine PCR applications
- Products suitable for TA cloning
- High throughput

Description

Taq Mastermix is a complete ready-to-use 2x reaction mix containing an ultra-stable DNA polymerase. Developed to perform PCR assays of many common genomic and cDNA templates, the user has simply to add water, template and primers.

Taq Mastermix dramatically reduces the time required to set up reactions, thereby minimizing the risk of contamination. Greater reproducibility is ensured, by reducing the number of pipetting steps that can lead to errors. It has been optimized for a wide variety of templates, however an additional 50mM of MgCl₂ solution is included should any fine adjustments be required.

Mastermix Protocol

Mastermix	25µl
Template and Primers	as required
Water (ddH ₂ O)	up to 50µl

Denature: 94-96°C

Elongate: 70-72°C (allowing 15-30 seconds/kb)

For optimal resolution of PCR products, we recommend the use of Tris-Acetate EDTA (TAE) buffer for gel preparation and electrophoresis.

An additional tube of 50mM MgCl₂ is provided should any fine adjustments be necessary. The table below shows the volume of MgCl₂ that must be added to a 50µl final reaction volume to achieve the desired final concentration.

Final MgCl ₂ Required	MgCl ₂ to be added
2.0mM	0µl
2.5mM	0.5µl
3.0mM	1µl

This data is intended for use as a guide only; conditions will vary from reaction to reaction and may need optimization.

Product Specifications

Batch details:

Batch No: See vial

Cat No: See vial

Components

Mastermix	100 Reactions	500 Reactions
Mastermix	2 x 1.25ml	10 x 1.25ml
50mM MgCl ₂ Solution	1.2ml	1.2ml

Reagent Specifications:

MgCl₂ Stock Solution: 50mM MgCl₂

Storage Conditions:

Mastermix and Mastermix Red can be stored for up to 6 months at -20°C, or up to 2 weeks at +4°C. Repeated freeze/thaw cycles should be avoided.

Shipping Conditions:

On Dry Ice or Blue Ice