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High Fidelity Mix

Catalogue Numbers:

DNP-HF108 100 Reactions
DNP-HF208 500 Reactions

Features

- The same high fidelity and high yield as High Fidelity Enzymes
- Convenient pre-mixed, pre-optimized 2x solutions
- Reduced risk of contamination
- Dramatically decreases the time required for reaction setup
- Reproducible results

Applications

- Ultra-high fidelity PCR for subsequent cloning
- Blunt-end cloning
- High throughput combined with high fidelity

Description

High Fidelity Mix is a convenient ready-to-go 2x reaction mix designed for high fidelity and maximum experiment reproducibility. It contains High Fidelity Enzymes, MgCl₂ and ultra-pure dNTPs. The mix is optimized and ready-to-use: the user adds only water, template and primers. High Fidelity Mix dramatically reduces the time needed to set up reactions, thereby minimizing the risk of contamination. Greater reproducibility is ensured, by a reduction in the number of pipetting steps that can lead to pipetting errors.

High Fidelity Mix Protocol

Reaction Conditions (for a 50ul reaction)

High Fidelity Mix	25ul
Template & Primers	As required
Water (ddH ₂ O)	Up to 50ul

Denature: 94-97°C

Extension: 68°C Allowing 1.5-2 minutes per Kb

For optimal resolution of PCR products, we recommend the use of Tris-Acetate EDTA (TAE) buffer for gel preparation and electrophoresis. High Fidelity Mix is supplied with an additional 50mM MgCl₂ solution for optional optimization of reaction conditions. The table below shows the volume of MgCl₂ to add to achieve different final concentrations.

Final Magnesium concentration required	Volume of 50mM MgCl ₂ to add to a 50ul final reaction volume
2.0mM	0
2.5mM	0.5ul
3.0mM	1ul

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

Components

High Fidelity Mix	100 Reactions	500 Reactions
High Fidelity Mix	2 x 1.25ml	10 x 1.25ml
50mM MgCl ₂ Solution	1.2ml	1.2ml

Storage Conditions:

High Fidelity Mix can be stored for 12 months at -20°C.

Shipping Conditions:

On Dry Ice or Blue Ice