

# Rapid ligation 2x mastermix

Cat.No : 18101/18102

## Description

The Rapid ligation 2x mastermix enables simple cohesive- or blunt-ended DNA ligation in only 5min at room temperature. The kit contains T4 DNA ligase, specially formulated ligation buffer, and stabilizer that have been optimized for fast and efficient DNA ligation. The ligation results obtained using the Kit are comparable to those obtained with T4 DNA Ligase in standard 1h ligation and the efficiency of ligation is about 80%. Ligation reaction mixture can be used directly for bacterial transformation.

## Applications

Routine cloning experiments

## Contents

2x mastermix contains T4 DNA ligase, 2x ligation buffer and stabilizer in 5 µl premix.

## Features

Ligation of either sticky- or blunt-ended DNA in 5 minutes.

Ready-to-use 2x mastermix

Reaction mixture can be used directly for bacterial transformation

## Protocol

1. Add the following components :

2X master mix    5 µl

Insert DNA        x µl

Vector DNA        x µl

x µl of water for a final volume of 10 µl

Ligation reaction mixture should contain >1- 3 fold molar excess of foreign DNA termini to vector DNA.

2. Carefully mix with repeated pipetting.

3. Incubate tube at 37°C for 5-30 min.

4. Use 5-10µl of the ligation mixture for transformation. The reaction can be stored at 0-4°C until used for transformation.

## Related Products

Products Description	Size	Cat.No.	Remarks
Rapid ligation 2x mastermix	250ul	18101	ready-to-use
Rapid ligation 2x premix, 96 tubes	10ul x 96 rxn	18102	prealiquoted



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