

# User Manual

Version 3.0

**Product name:** *E.coli* DNA ligase

**Cat #:** EDLA-100, EDLA-200, EDLA-OEM, B-ED10

## Description:

*E. coli* DNA Ligase is an NAD<sup>+</sup>-dependent enzyme that catalyzes the formation of phosphodiester bonds between complementary 3'-hydroxyl and 5'-phosphoryl termini of dsDNA. The enzyme works best with cohesive dsDNA ends and is also active on nicked DNA. Blunt ends can be ligated in the presence of condensing reagents such as polyethylene glycol or Ficoll®. A 10x Reaction Buffer is provided with the enzyme.

## Protocol:

Set-up the reaction as follows

DNA up to 5 µg  
10X *E. coli* DNA Ligase Reaction Buffer 2 µl  
*E. coli* DNA Ligase 1 µl (10 units)  
H<sub>2</sub>O up to 20 µl

Incubate at 16°C for 30 minutes.

Heat inactivate by incubating at 65°C for 20 minutes.