

User Manual

Version 3.0

Product name: T7 DNA Ligase

Cat #: T7DL-100, T7DL-200, T7DL-OEM, B-RL10

Description:

T7 DNA Ligase catalyzes the formation of a phosphodiester bond between a 5'-phosphate and a 3'-hydroxyl terminus in duplex DNA. The enzyme will join blunt ends and cohesive ends termini as well as repair single-stranded nicks in duplex DNA.

Protocol:

Combine 50 ng of vector with a 3-fold molar excess of insert. Adjust volume to 10 μ l with dH₂O.

Add 2 μ l of 10x Rapid Ligation Buffer and mix.

Add 1 μ l of T7 DNA Ligase and mix thoroughly.

Centrifuge briefly and incubate at room temperature (25°C) for 15-30 minutes.

Chill on ice, then transform or store at -20°C.

Do not heat inactivate. Heat inactivation dramatically reduces transformation efficiency.