

## T4 DNA Ligase Reaction Buffer



1-800-632-7799  
info@neb.com  
www.neb.com



B0202S 002170620061

# B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at  $-20^{\circ}\text{C}$  Lot: 0021706 Exp: 6/20

**Description:** New England Biolabs supplies a 10X reaction buffer with all of its enzymes. At a 1X concentration this reaction buffer assures optimal activity of the enzyme.

### 1X T4 DNA Ligase Reaction Buffer:

50 mM Tris-HCl  
10 mM  $\text{MgCl}_2$   
10 mM DTT  
1 mM ATP  
pH 7.5 @  $25^{\circ}\text{C}$

Supplied with enzyme as a 10X concentrated stock

### Quality Control Assays

**16-Hour Incubation:** A 50  $\mu\text{l}$  reaction containing this reaction buffer at a 1X concentration and 1  $\mu\text{g}$  of HaeIII digested  $\phi\text{X174}$  RF I DNA incubated for 16 hours resulted in no detectable non-specific nuclease degradation.

**Endonuclease Activity:** Incubation of this reaction buffer at a 1X concentration with 1  $\mu\text{g}$   $\phi\text{X174}$  RF I DNA for 4 hours at  $37^{\circ}\text{C}$  in 50  $\mu\text{l}$  reactions resulted in less than 5% conversion to RF II.



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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

CERTIFICATE OF ANALYSIS

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