

## T4 DNA Ligase Reaction Buffer



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B0202S 001140817081

# B0202S

**6.0 ml T4 DNA Ligase Reaction Buffer (10X)**

**Store at -20°C Lot: 0011408 Exp: 8/17**

**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 MgCl<sub>2</sub>

10 mM DTT

1 mM ATP

pH 7.5 @ 25°C

Supplied with enzyme as a 10X concentrated stock

### Quality Control Assays

**16-Hour Incubation:** A 50 µl reaction containing this reaction buffer at a 1X concentration and 1 µg of HaeIII digested φX174 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 µg φX174 RF I DNA for 4 hours at 37°C in 50 µl reactions resulted in less than 5% conversion to RF II.

CERTIFICATE OF ANALYSIS

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