

T4 RNA Ligase Reaction Buffer



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



B0216L 009150218021

B0216L

3.0 ml **Lot: 0091502** **Exp: 2/18**
10X Concentration **Store at -20°C**

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 RNA Ligase Reaction Buffer:

50 mM Tris-HCl
10 mM MgCl₂
1 mM DTT
pH 7.5 @ 25°C

Reagents Supplied with Buffer:

10 mM ATP
50% PEG8000

Quality Control Assays

16-Hour Incubation: 1 µg of HaeIII digested φX174 RF I DNA in 50 µl of this reaction buffer at 1X concentration showed no detectable non-specific nuclease degradation after incubation at 37°C for 16 hours.

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 a 50 µl reaction resulted in less than 5% conversion to RF II.

RNase Activity: Incubation of 40 ng of RNA transcripts in 50 µl of this reaction buffer at a 1X concentration for 2 hours at 37°C resulted in no detectable degradation of the RNA as determined by gel electrophoresis.

CERTIFICATE OF ANALYSIS

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