

T4 DNA Ligase Reaction Buffer



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B0202S 002151018101

B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at -20°C Lot: 0021510 Exp: 10/18

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_2
10 mM DTT
1 mM ATP
pH 7.5 @ 25°C

Supplied with enzyme as a 10X concentrated stock

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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.



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