

T4 DNA Ligase Reaction Buffer



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



B0202S 001160919091

B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at -20°C Lot: 0011609 Exp: 9/19

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

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.



NEW ENGLAND BIOLABS[®] is a registered trademark of New England Biolabs, Inc.

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

T4 DNA Ligase Reaction Buffer



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



B0202S 001160919091

B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at -20°C Lot: 0011609 Exp: 9/19

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

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.



NEW ENGLAND BIOLABS[®] is a registered trademark of New England Biolabs, Inc.

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