

## T4 Polynucleotide Kinase Reaction Buffer



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



B0201S 001130216021

# B0201S

4.0 ml T4 Polynucleotide Kinase Exp: 2/16

Reaction Buffer (10X) Lot: 0011302

Store at  $-20^{\circ}\text{C}$

**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 Polynucleotide Kinase Reaction Buffer:

70 mM Tris-HCl

10 mM  $\text{MgCl}_2$

5 mM DTT

pH 7.6 @  $25^{\circ}\text{C}$

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.

CERTIFICATE OF ANALYSIS

## T4 Polynucleotide Kinase Reaction Buffer



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



B0201S 001130216021

# B0201S

4.0 ml T4 Polynucleotide Kinase Exp: 2/16

Reaction Buffer (10X) Lot: 0011302

Store at  $-20^{\circ}\text{C}$

**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 Polynucleotide Kinase Reaction Buffer:

70 mM Tris-HCl

10 mM  $\text{MgCl}_2$

5 mM DTT

pH 7.6 @  $25^{\circ}\text{C}$

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.

CERTIFICATE OF ANALYSIS