**RNAPol Reaction Buffer**

**B9012S**

6.0 ml RNAPol Reaction Buffer (10X)
Store at –20°C Lot: 0091208 Exp: 8/13

**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.

**RNAPol Reaction Buffer is used with both RNA Polymerases:**

- SP6 RNA Polymerase NEB #M0207
- T7 RNA Polymerase NEB #M0251

---

**1X RNAPol Reaction Buffer:**

- 40 mM Tris-HCl
- 6 mM MgCl₂
- 10 mM DTT
- 2 mM spermidine
- pH 7.9 @ 25°C

**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.

---

**RNAPol Reaction Buffer**

**B9012S**

6.0 ml RNAPol Reaction Buffer (10X)
Store at –20°C Lot: 0091208 Exp: 8/13

**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.

**RNAPol Reaction Buffer is used with both RNA Polymerases:**

- SP6 RNA Polymerase NEB #M0207
- T7 RNA Polymerase NEB #M0251

---

**1X RNAPol Reaction Buffer:**

- 40 mM Tris-HCl
- 6 mM MgCl₂
- 10 mM DTT
- 2 mM spermidine
- pH 7.9 @ 25°C

**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.