

## M-MuLV Reverse Transcriptase Reaction Buffer



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



B0253S 008131116111

# B0253S

### 6.0 ml M-MuLV Reverse Transcriptase

Reaction Buffer (10X) Lot: 0081311

Store at -20°C Exp: 11/16

**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 M-MuLV Reverse Transcriptase

#### Reaction Buffer:

50 mM Tris-HCl  
75 mM KCl  
3 mM MgCl<sub>2</sub>  
10 mM dithiothreitol  
pH 8.3 @ 25°C

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### 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.

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