

**NEBNext® dA-Tailing  
Reaction Buffer**



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



B6059S 008151217121

**B6059S**

**2 x 1.0 ml (2 ml) Lot: 0081512**  
**Store at -20°C Exp: 12/17**

**Description:** New England Biolabs supplies a 10X reaction buffer for use with Klenow Fragment (3'→5' exo-). At a 1X concentration this reaction buffer assures optimal activity of the enzyme.

**1X NEBNext dA-Tailing Reaction Buffer:**

10 mM Tris-HCl  
10 mM MgCl<sub>2</sub>  
50 mM NaCl  
1 mM DTT  
0.2 mM dATP  
pH 7.9 @ 25°C

**Quality Control Assay**

**16-Hour Incubation:** 50 µl reactions containing this reaction buffer at 1X concentration and 1 µg of HindIII digested Lambda DNA incubated for 16 hours at 37°C results in no detectable non-specific nuclease degradation as determined by agarose gel electrophoresis. 50 µl reactions containing this reaction buffer at 1X concentration and 1 µg T3 DNA incubated for 16 hours at 37°C also results in no detectable non-specific nuclease degradation as determined by agarose gel electrophoresis.

**Endonuclease Activity:** Incubation of this reaction buffer at a 1X concentration with 1 µg of φX174 RF I DNA for 4 hours at 37°C in 50 µl reactions results in less than 10% conversion to RF II as determined by agarose gel electrophoresis.

**RNase Activity:** Incubation of this reaction buffer at 1X concentration with 40 ng of a FAM-labeled RNA transcript for 16 hours at 37°C results in no detectable RNase activity as determined by polyacrylamide gel electrophoresis.

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**RNase Activity:** Incubation of this reaction buffer at 1X concentration with 40 ng of a FAM-labeled RNA transcript for 16 hours at 37°C results in no detectable RNase activity as determined by polyacrylamide gel electrophoresis.

**Phosphatase Activity:** Incubation of this reaction buffer at a 1X concentration in protein phosphatase assay buffer (1 M diethanolamine @ pH 9.8 and 0.5 mM MgCl<sub>2</sub>) containing 2.5 mM *p*-nitrophenyl phosphate at 37°C for 4 hours yields no detectable *p*-nitrophenylene anion as determined by spectrophotometric analysis at 405 nm.



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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

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