NEBNext® dA-Tailing Reaction Buffer

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

B6059S 003120114011

B6059S

2 x 1.0 ml (2 ml) **Lot: 0031201**

Store at –20°C **Exp: 1/14**

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 $MgCl_2$
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.

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 $MgCl_2$) 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.

CERTIFICATE OF ANALYSIS

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