**NEBNext™ dsDNA Fragmentase™ Reaction Buffer**

B0348S

6 x 1.0 ml (6.0 ml) rxn buffer Lot: 0081401
Store at –20°C Exp: 1/16

**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 NEBNext dsDNA Fragmentase Reaction Buffer:**
- 20 mM Tris-HCl
- 10 mM MgCl₂
- 50 mM NaCl
- 0.15% Triton X-100
- pH 7.5 @ 25°C

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**Quality Control Assay**

**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.

**Protease Assay:** Incubation of at least 1X dsDNA Fragmentase buffer with 0.2 nmol of a standardized mixture of proteins, for 20 hours at 37°C, resulted in no proteolytic activity detected by SDS-PAGE.

**Phosphatase Assay:** Incubation of 10 µl of at least 1X dsDNA Fragmentase Buffer in protein phosphatase assay buffer (1 M diethanolamine @ pH 9.8 and 0.5 mM MgCl₂) 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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