

## Antarctic Phosphatase Reaction Buffer



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



B0289S 008160319031

# B0289S

6.0 ml Antarctic Phosphatase Reaction Buffer (10X)

Store at  $-20^{\circ}\text{C}$  Lot: 0081603 Exp: 3/19

**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 Antarctic Phosphatase Reaction Buffer:

50 mM Bis Tris-Propane  
1 mM  $\text{MgCl}_2$   
0.1 mM  $\text{ZnCl}_2$   
pH 6.0 @  $25^{\circ}\text{C}$

### Quality Control Assay

**Non-specific DNase Activity (16 Hour):** A 50  $\mu\text{l}$  reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1  $\mu\text{g}$  of HaeIII digested  $\phi\text{X174}$  RF I DNA incubated for 16 hours at  $37^{\circ}\text{C}$  results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

**Endonuclease Activity (Nicking):** A 50  $\mu\text{l}$  reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1  $\mu\text{g}$  of supercoiled  $\phi\text{X174}$  RF DNA incubated for 4 hours at  $37^{\circ}\text{C}$  results in  $<10\%$  conversion to the nicked form as determined by agarose gel electrophoresis.



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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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