

**Antarctic
Phosphatase
Reaction Buffer**



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



B0289S 007150618061

B0289S

**6.0 ml Antarctic Phosphatase
Reaction Buffer (10X)**

Store at -20°C Lot: 0071506 Exp: 6/18

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 MgCl₂
0.1 mM ZnCl₂
pH 6.0 @ 25°C

Quality Control Assay

Non-specific DNase Activity (16 Hour): A 50 µl reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1 µg of HaeIII digested φX174 RF I DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Endonuclease Activity (Nicking): A 50 µl reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1 µg of supercoiled φX174 RF DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

CERTIFICATE OF ANALYSIS

**Antarctic
Phosphatase
Reaction Buffer**



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



B0289S 007150618061

B0289S

**6.0 ml Antarctic Phosphatase
Reaction Buffer (10X)**

Store at -20°C Lot: 0071506 Exp: 6/18

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 MgCl₂
0.1 mM ZnCl₂
pH 6.0 @ 25°C

Quality Control Assay

Non-specific DNase Activity (16 Hour): A 50 µl reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1 µg of HaeIII digested φX174 RF I DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Endonuclease Activity (Nicking): A 50 µl reaction in 1X Antarctic Phosphatase Reaction Buffer containing 1 µg of supercoiled φX174 RF DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

CERTIFICATE OF ANALYSIS