

Antarctic Phosphatase Reaction Buffer



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B0289S 007151018101

B0289S

6.0 ml Antarctic Phosphatase Reaction Buffer (10X)

Store at -20°C Lot: 0071510 Exp: 10/18

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 MgCl_2
0.1 mM ZnCl_2
pH 6.0 @ 25°C

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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.



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