



B7003S

6.0 ml NEBuffer 3 (10X) Lot: 0021201 15.0 mg BSA (100X) Store at -20°C Exp: 1/15

Description: New England Biolabs provides a color-coded 10X NEBuffer with each restriction endonuclease to ensure optimal (100%) activity. Most of our enzymes are supplied with one of four standard NEBuffers. Occasionally, an enzyme has specific buffer requirements not met by one of the four standard NEBuffers, in which case the enzyme is supplied with its own unique NEBuffer. Some restriction endonucleases require BSA at a final concentration of 100 µg/ml for optimal activity. When required, BSA is supplied as a 10 mg/ml (100X) stock and should be added to the reaction mixture.

NEBuffer 3

New ENGLAND BioLabs

BioLabs

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Restriction endonucleases that do not require BSA for optimal activity are not adversley affected if BSA is present in the reaction mixture.

1X NEBuffer 3:

100 mM NaCl 50 mM Tris-HCl 10 mM MgCl₂ 1 mM DTT pH 7.9 @ 25°C Supplied as a 10X concentrated stock

Quality Control

16-Hour Incubation: A 50 μ I reaction containing this reaction buffer at a 1X concentration and 1 μ g of HaeIII digested ϕ X174 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 μ g ϕ X174 RF I DNA for 4 hours at 37°C in 50 μ I reactions resulted in less than 5% conversion to RF II.

CERTIFICATE OF ANALYSIS

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