

NEBuffer 4



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



B7004S 012160919091

B7004S

5.0 ml

Lot: 0121609

Store at -20°C

Exp: 9/19

Description: New England Biolabs provides a color-coded 10X NEBuffer with each restriction endonuclease to ensure optimal (100%) activity. The NEBuffer minus BSA formulation is included in this buffer pack for those enzymes requiring NEBuffers without BSA. For the BSA containing formulation, Buffer packs NEBuffer 1.1 (NEB #B7201), NEBuffer 2.1 (NEB #B7201), NEBuffer 3.1 (NEB #B7203) and CutSmart Buffer (NEB #B7204) are available. Visit www.neb.com for details.

Note: Now supplied at 1.25 ml per tube.

NEBuffer 4



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



B7004S 012160919091

B7004S

5.0 ml

Lot: 0121609

Store at -20°C

Exp: 9/19

Description: New England Biolabs provides a color-coded 10X NEBuffer with each restriction endonuclease to ensure optimal (100%) activity. The NEBuffer minus BSA formulation is included in this buffer pack for those enzymes requiring NEBuffers without BSA. For the BSA containing formulation, Buffer packs NEBuffer 1.1 (NEB #B7201), NEBuffer 2.1 (NEB #B7201), NEBuffer 3.1 (NEB #B7203) and CutSmart Buffer (NEB #B7204) are available. Visit www.neb.com for details.

Note: Now supplied at 1.25 ml per tube.

1X NEBuffer 4:

50 mM potassium acetate
20 mM Tris-acetate
10 mM magnesium acetate
1 mM DTT
pH 7.9 @ 25°C
Supplied as a 10X concentrated stock

Quality Control

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.

1X NEBuffer 4:

50 mM potassium acetate
20 mM Tris-acetate
10 mM magnesium acetate
1 mM DTT
pH 7.9 @ 25°C
Supplied as a 10X concentrated stock

Quality Control

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.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

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.



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

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

CERTIFICATE OF ANALYSIS