

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350

www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 1 B7001S

Catalog Number:

10 X Concentrate Concentration:

Packaging Lot Number: 10195927 Expiration Date: 10/2025 -20°C Storage Temperature:

Specification Version: PS-B7001S v1.0

Composition (1X): 10 mM Bis-Tris-Propane-HCl, 10 mM MgCl2, 1 mM DTT, (pH 7.0 @ 25°C)

| NEBuffer™ 1 Component List | | | | |
|----------------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| B7001SVIAL | NEBuffer™ 1 | 10167590 | Pass | |

| Assay Name/Specification | Lot # 10195927 |
|---|----------------|
| Conductivity (buffers/solutions) | Pass |
| The conductivity of 10X NEBuffer 1 is between 20 and 30 mS at 25°C. | |
| Endonuclease Activity (Nicking, Buffer) | Pass |
| A 50 µl reaction in 1X NEBuffer 1 containing 1 µg of supercoiled PhiX174 RF I DNA | |
| incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | |
| | |
| Functional Testing (Restriction Digest, BSA, Buffer) | Pass |
| A 50 μl reaction in 1X NEBuffer 1 plus 100 μg/ml Bovine Serum Albumin containing 1 μg of pXba DNA and 1 unit of Kpnl incubated for 1 hour at 37°C results in complete | |
| digestion of the substrate DNA as determined by agarose gel electrophoresis. | |
| Functional Testing (Restriction Digest, BSA, Buffer) | Pass |
| A 50 μl reaction in 1X NEBuffer 1 plus 100 μg/ml Bovine Serum Albumin containing 1 | |
| μg of Lambda-HindIII DNA and 1 unit of SacI incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel | |
| electrophoresis. | |
| New Consider DNess Activity (46 hours Duffer) | Bass |
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBuffer 1 containing 1 µg of HaellI digested PhiX174 RF I | Pass |
| DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable | |
| nuclease degradation as determined by agarose gel electrophoresis. | |



B7001S / Lot: 10195927

Page 1 of 2

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Nancy Considine Production Scientist 27 Oct 2022

any Gondon

Michael Tonello

Packaging Quality Control Inspector

28 Jul 2023



B7001S / Lot: 10195927

Page 2 of 2