

New England Biolabs Certificate of Analysis

Product Name: NEBufferTM 1.1

Catalog #: B7201S

Concentration: 10X Concentrate

 Lot #:
 0131803

 Assay Date:
 03/2018

 Expiration Date:
 03/2021

 Storage Temp:
 -20°C

Composition (1X): 10 mM Bis-Tris Propane, 10 mM MgCl₂, 100 µg/ml BSA, (pH 7.0 @ 25°C)

Specification Version: PS-B7201S v1.0 Effective Date: 31 Jan 2018

Assay Name/Specification (minimum release criteria)	Lot #0131803
Conductivity (buffers/solutions) - The conductivity of 10X NEBuffer 1.1 is between 23 and 26 mS at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer) - A 50 μl reaction in 1X NEBuffer 1.1 containing 1 μg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Functional Testing (Restriction Digest, Buffer) - A 50 μl reaction in 1X NEBuffer 1.1 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.	Pass
Functional Testing (Restriction Digest, Buffer) - A 50 μl reaction in 1X NEBuffer 1.1 containing 1 μg of pXba DNA and 1 unit of KpnI incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 hour, Buffer) - A 50 µl reaction in 1X NEBuffer 1.1 containing 1 µg of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
pH (buffers/solutions) - The pH of 10X NEBuffer 1.1 is between pH 6.9 and 7.1 at 25°C.	Pass
RNase Activity (Buffer) - A 10 µl reaction in 1X NEBuffer 1.1 containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	Pass







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* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Derek Robinson 31 Jan 2018







Inspected by Tony Spear-Alfonso 16 Mar 2018