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## New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 2

Catalog Number: B7002S

Concentration: 10 X Concentrate

Packaging Lot Number: 10145040
Expiration Date: 01/2025
Storage Temperature: -20°C

Specification Version: PS-B7002S v1.0

Composition (1X): 50 mM NaCl, 10 mM Tris-HCl, 10 mM MgCl2, 1 mM DTT, (pH 7.9 @ 25°C)

NEBuffer™ 2 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B7002SVIAL	NEBuffer™ 2	10133927	Pass	

Assay Name/Specification	Lot # 10145040
Functional Testing (Restriction Digest, BSA, Buffer) A 50 µl reaction in 1X NEBuffer 2 plus 100 µg/ml Bovine Serum Albumin containing 1 µg of Lambda DNA and 1 unit of Sphl 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, BSA, Buffer) A 50 μl reaction in 1X NEBuffer 2 plus 100 μg/ml Bovine Serum Albumin containing 1 μg of Lambda DNA and 1 unit of HindIII 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 2 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
Conductivity (buffers/solutions) The conductivity of 10X NEBuffer 2 is between 52 and 78 mS/cm at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer) A 50 μl reaction in 1X NEBuffer 2 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



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

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Ben Penta

**Production Scientist** 

Bu Rear

22 Mar 2022

Josh Hersey

Packaging Quality Control Inspector

22 Mar 2022



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