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## New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 2

Catalog Number: B7002S

Concentration: 10 X Concentrate

Packaging Lot Number: 10061024
Expiration Date: 08/2022
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	10052180	Pass	

Assay Name/Specification	Lot # 10061024
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
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
pH (buffers/solutions) The pH of 10X NEBuffer 2 is between pH 7.8 and 8.0 at 25°C.	Pass



B7002S / Lot: 10061024

Page 1 of 2

204

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

Doreen Duquette
Production Scientist

12 Sep 2019

Jay Minichiello

Packaging Quality Control Inspector

20 Dec 2019



B7002S / Lot: 10061024

Page 2 of 2