

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™ r3.1

Catalog Number: B6003S

Concentration: 10 X Concentrate

Packaging Lot Number: 10215721
Expiration Date: 03/2026
Storage Temperature: -20°C

Specification Version: PS-B6003S v1.0

Composition (1X): 50 mM Tris-HCl, 100 mM NaCl, 10 mM MgCl2, 100 μg/ml rAlbumin, (pH

7.9 @ 25°C)

NEBuffer™ r3.1 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B6003SVIAL	NEBuffer™ r3.1	10182165	Pass	

Assay Name/Specification	Lot # 10215721
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer™ r3.1 is between 84 and 101 mS/cm at 25°C.	
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer™ r3.1 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™ r3.1 containing 1 µg of pBC4 DNA and 1 unit of Notl 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™ r3.1 containing 1 µg of Lambda DNA and 1 unit of Asel 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™ r3.1 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



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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 28 Mar 2023

any boundary

Michael Tonello

Packaging Quality Control Inspector

20 Nov 2023



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