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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ r3.1

Catalog Number: B6003S

Concentration: 10 X Concentrate

Packaging Lot Number: 10150647
Expiration Date: 04/2025
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B6003SVIAL	NEBuffer™ r3.1	10146823	Pass	

Assay Name/Specification	Lot # 10150647
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer™ r3.1 is between 84 and 101 mS/cm at 25°C.	
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
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
pH (buffers/solutions) The pH of 10X NEBuffer™ r3.1 is between pH 7.8 and 8.0 at 25°C.	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
RNase Activity (Buffer)	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 Rell

09 May 2022

Erin Varney

Packaging Quality Control Inspector

09 May 2022



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