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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ r2.1

Catalog Number: B6002S

Concentration: 10 X Concentrate

Packaging Lot Number: 10201426
Expiration Date: 12/2025
Storage Temperature: -20°C

Specification Version: PS-B6002S v1.0

Composition (1X): 10 mM Tris-HCl, 50 mM NaCl, 10 mM MgCl2, 100 µg/ml rAlbumin, (pH 7.9

@ 25°C)

NEBuffer™ r2.1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B6002SVIAL	NEBuffer™ r2.1	10173667	Pass	

Assay Name/Specification	Lot # 10201426
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer™ r2.1 is between 55 and 62 mS/cm at 25°C.	
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer™ r2.1 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™ r2.1 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, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer™ r2.1 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.	
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBuffer™ r2.1 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.

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Nancy Considine Production Scientist 13 Jan 2023

any boundary

Michael Tonello

Packaging Quality Control Inspector

09 Aug 2023



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