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## New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 3.1

Catalog Number: B7203S

Concentration: 10 X Concentrate

Packaging Lot Number: 10092401
Expiration Date: 11/2023
Storage Temperature: -20°C

Specification Version: PS-B7203S v1.0

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

25°C)

NEBuffer™ 3.1 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B7203SVIAL	NEBuffer™ 3.1	10085494	Pass	

Assay Name/Specification	Lot # 10092401
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer 3.1 is between 84 and 101 mS at 25°C.	
Endonuclease Activity (Nicking, Buffer)	Pass
A 50 μl reaction in 1X NEBuffer 3.1 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.	
determined by agarose gerelectrophoresis.	
Functional Testing (Restriction Digest, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 3.1 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.	
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Functional Testing (Restriction Digest, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 3.1 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.	
determined by agarose gerelectrophoresis.	
Non-Specific DNase Activity (16 hour, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 3.1 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.	



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

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Production Scientist 20 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

25 Nov 2020



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