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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 1.1

Catalog Number: B7201S

Concentration: 10 X Concentrate

Lot Number: 10048363
Expiration Date: 06/2022
Storage Temperature: -20°C

Specification Version: PS-B7201S v1.0

Composition (1X): 10 mM Bis-Tris Propane, 10 mM MgCl2, 100 μg/ml BSA, (pH 7.0 @ 25°C)

NEBuffer™ 1.1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7201SVIAL	NEBuffer™ 1.1	10043905	Pass	

Assay Name/Specification	Lot # 10048363
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer 1.1 is between 23 and 26 mS at 25°C.	
Endonuclease Activity (Nicking, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 1.1 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.	
Functional Testing (Restriction Digest, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 1.1 containing 1 µg of Lambda-HindIII DNA and 1 unit	
of SacI 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 1.1 containing 1 µg of pXba DNA and 1 unit of Kpnl 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)	Pass
A 50 µl reaction in 1X NEBuffer 1.1 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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remains intact as determined by fluorescent detection.

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

David Guo

Production Scientist

25 Jul 2019

Michael Tonello

Packaging Quality Control Inspector

06 Aug 2019

