

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™ 1.1

Catalog Number: B7201S

Concentration: 10 X Concentrate

Packaging Lot Number: 10102472
Expiration Date: 02/2024
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	10096306	Pass	

Assay Name/Specification	Lot # 10102472
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) A 50 µl reaction in 1X NEBuffer 1.1 containing 1 µg of Lambda-HindIII DNA and 1 unit	Pass
of Sacl incubated for 1 hour at 37°C results in complete digestion of the substrate	
DNA 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 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.	
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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.

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Michael Dalton Production Scientist

04 Mar 2021

Michael Tonello

Packaging Quality Control Inspector

04 Mar 2021



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