

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	10090430
Expiration Date:	11/2023
Storage Temperature:	-20°C
Specification Version:	PS-B7201S v1.0
Composition (1X):	10 mM Bis-Tris Propane, 10 mM MgCl2, 100 $\mu$ g/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	10090429	Pass	

Assay Name/Specification	Lot # 10090430
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 $\mu$ I reaction in 1X NEBuffer 1.1 containing 1 $\mu$ g 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.	
<b>Functional Testing (Restriction Digest, Buffer)</b> A 50 µl reaction in 1X NEBuffer 1.1 containing 1 µg of Lambda-HindIII DNA and 1 unit	Pass
of SacI 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 KpnI	
incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in 1X NEBuffer 1.1 containing 1 µg of PhiX174-HaeIII DNA incubated	Pass
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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Assay Name/Specification	Lot # 10090430
pH (buffers/solutions)	Pass
The pH of 10X NEBuffer 1.1 is between pH 6.9 and 7.1 at 25°C.	
RNase Activity (Buffer)	Pass
A 10 µl reaction in 1X NEBuffer 1.1 containing 40 ng of a 300 base single-stranded	
RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA	
remains intact as determined by fluorescent detection.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Michael Dalton

Michael Dalton Production Scientist 30 Nov 2020

How Michae

Michael Tonello Packaging Quality Control Inspector 30 Nov 2020

