

New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 1.1
Catalog Number: B7201S
Concentration: 10 X Concentrate
Packaging Lot Number: 10093183
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 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	10090429	Pass

Assay Name/Specification	Lot # 10093183
Non-Specific DNase Activity (16 hour, Buffer) 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.	Pass
pH (buffers/solutions) The pH of 10X NEBuffer 1.1 is between pH 6.9 and 7.1 at 25°C.	Pass
RNase Activity (Buffer) 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.	Pass
Endonuclease Activity (Nicking, Buffer) 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.	Pass
Conductivity (buffers/solutions) The conductivity of 10X NEBuffer 1.1 is between 23 and 26 mS at 25°C.	Pass
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

Assay Name/Specification	Lot # 10093183
<p>of SacI incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.</p> <p>Functional Testing (Restriction Digest, Buffer) 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.</p>	<p>Pass</p>

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

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Michael Dalton
Production Scientist
04 Jan 2021



Michael Tonello
Packaging Quality Control Inspector
04 Jan 2021