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## New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 2.1

Catalog Number: B7202S

Concentration: 10 X Concentrate

Packaging Lot Number: 10088255
Expiration Date: 10/2023
Storage Temperature: -20°C

Specification Version: PS-B7202S v1.0

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

25°C)

NEBuffer™ 2.1 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B7202SVIAL	NEBuffer™ 2.1	10087450	Pass	

Assay Name/Specification	Lot # 10088255
RNase Activity (Buffer) A 10 µl reaction in 1X NEBuffer 2.1 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
Conductivity (buffers/solutions) The conductivity of 10X NEBuffer 2.1 is between 55 and 62 mS at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer 2.1 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
Functional Testing (Restriction Digest, Buffer) A 50 μl reaction in 1X NEBuffer 2.1 containing 1 μg of Lambda DNA and 1 unit of HindIII incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	Pass
Functional Testing (Restriction Digest, Buffer) A 50 µl reaction in 1X NEBuffer 2.1 containing 1 µg of Lambda DNA and 1 unit of Sphl incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	Pass



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

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Production Scientist
19 Nov 2020

Michael Tonello

Packaging Quality Control Inspector

19 Nov 2020



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