

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™ 2.1

Catalog Number: B7202S

Concentration: 10 X Concentrate

Packaging Lot Number: 10091866
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7202SVIAL	NEBuffer™ 2.1	10087450	Pass	

Assay Name/Specification	Lot # 10091866
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
pH (buffers/solutions) The pH of 10X NEBuffer 2.1 is between pH 7.8 and 8.0 at 25°C.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBuffer 2.1 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
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
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



B7202S / Lot: 10091866

Page 1 of 2

Assay Name/Specification	Lot # 10091866
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
Conductivity (buffers/solutions) The conductivity of 10X NEBuffer 2.1 is between 55 and 62 mS at 25°C.	Pass

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.

Production Scientist

30 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

30 Nov 2020



B7202S / Lot: 10091866

Page 2 of 2