

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™ 2.1
Catalog Number:	B7202S
Concentration:	10 X Concentrate
Packaging Lot Number:	10118343
Expiration Date:	02/2024
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	10099548	Pass	

Assay Name/Specification	Lot # 10118343
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
pH (buffers/solutions) The pH of 10X NEBuffer 2.1 is between pH 7.8 and 8.0 at 25°C.	Pass
Functional Testing (Restriction Digest, Buffer) A 50 μ I reaction in 1X NEBuffer 2.1 containing 1 μ g 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
Conductivity (buffers/solutions) The conductivity of 10X NEBuffer 2.1 is between 55 and 62 mS at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer)	Pass





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Assay Name/Specification	Lot # 10118343
A 50 μ I reaction in 1X NEBuffer 2.1 containing 1 μ 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.	
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

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 24 Aug 2021

Michae

Michael Tonello Packaging Quality Control Inspector 24 Aug 2021

