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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 3.1

Catalog Number: B7203S

Concentration: 10 X Concentrate

Lot Number: 10039596
Expiration Date: 01/2022
Storage Temperature: -20°C

Specification Version: PS-B7203S v1.0

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

25°C)

NEBuffer™ 3.1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7203SVIAL	NEBuffer™ 3.1	10033149	Pass	

Assay Name/Specification	Lot # 10039596
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 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 3.1 is between pH 7.8 and 8.0 at 25°C.	Pass
RNase Activity (Buffer) A 10 µl reaction in 1X NEBuffer 3.1 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 3.1 is between 84 and 101 mS at 25°C.	Pass
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 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)	Pass



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

Tony Spear-Alfonso Production Scientist

23 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

22 Mar 2019

