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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 3

Catalog Number: B7003S

Concentration: 10 X Concentrate

Packaging Lot Number: 10067107 Expiration Date: 08/2022 Storage Temperature: -20°C

Specification Version: PS-B7003S v1.0

Composition (1X): 100 mM NaCl, 50 mM Tris-HCl, 10 mM MgCl2, 1 mM DTT, (pH 7.9 @ 25°C)

NEBuffer™ 3 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B7003SVIAL	NEBuffer™ 3	10048944	Pass	

Assay Name/Specification	Lot # 10067107
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer 3 is between 85 and 115 mS at 25°C.	
Endonuclease Activity (Nicking, Buffer)	Pass
A 50 μl reaction in 1X NEBuffer 3 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.	
Functional Testing (Restriction Digest, BSA, Buffer)	Pass
A 50 µl reaction in 1X NEBuffer 3 plus 100 µg/ml Bovine Serum Albumin containing 1	
µg of pBC4 DNA and 1 unit of NotI incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	
Functional Testing (Restriction Digest, BSA, Buffer)	Pass
A 50 μl reaction in 1X NEBuffer 3 plus 100 μg/ml Bovine Serum Albumin containing 1 μg of Lambda DNA and 1 unit of Asel incubated for 1 hour at 37°C results in complete	
digestion of the substrate DNA as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 hour, Buffer)	Pass
A 50 μl reaction in 1X NEBuffer 3 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.	



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

Production Scientist 09 Aug 2019 Michael Tonello Packaging Quality Control Inspector

09 Mar 2020



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