

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™ 3

Catalog Number: B7003S

Concentration: 10 X Concentrate

Packaging Lot Number: 10081870 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 # 10081870
Conductivity (buffers/solutions)	Pass
The conductivity of 10X NEBuffer 3 is between 85 and 115 mS at 25°C.	
Endamuelane Activity (Nieling Buffer)	Dana
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer 3 containing 1 µg of supercoiled PhiX174 DNA	Pass
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 Notl incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	
digestion of the substrate DNA as determined by agarose gerelectrophoresis.	
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	Гаээ
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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remains intact as determined by fluorescent detection.

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

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Michael Dalton Production Scientist

06 Oct 2020

Michael Tonello

Packaging Quality Control Inspector

06 Oct 2020



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