

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: NEBNext® End Repair Reaction Buffer

Catalog Number: B6052S

Concentration: 10 X Concentrate

Packaging Lot Number: 10213924
Expiration Date: 03/2025
Storage Temperature: -20°C

Specification Version: PS-B6052S v2.0

Composition (1X): 50 mM Tris-HCl, 10 mM MgCl2, 10 mM DTT, 1 mM ATP, 0.4 mM dATP, 0.4

mM dCTP, 0.4 mM dGTP, 0.4 mM dTTP, (pH 7.5 @ 25°C)

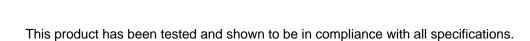
NEBNext® End Repair Reaction Buffer Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
B6052SVIAL	NEBNext® End Repair Reaction Buffer	10187899	Pass	

Assay Name/Specification	Lot # 10213924
Endonuclease Activity (Nicking, Buffer) A 50 μl reaction in 1X NEBNext® End Repair Reaction Buffer 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
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext® End Repair Reaction Buffer containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII 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
Phosphatase Activity (pNPP, Buffer) A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext® End Repair Reaction Buffer incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
RNase Activity (Buffer) A 10 µl reaction in 1X NEBNext® End Repair Reaction Buffer 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 gel electrophoresis using fluorescent detection.	Pass



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**Christine Sumner Production Scientist** 18 Oct 2023

Michael Tonello

Packaging Quality Control Inspector

18 Oct 2023

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