

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:	NEBNext® End Repair Reaction Buffer
Catalog Number:	B6052S
Concentration:	10 X Concentrate
Packaging Lot Number:	10108574
Expiration Date:	06/2022
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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B6052SVIAL	NEBNext® End Repair Reaction Buffer	10095862	Pass

Assay Name/Specification	Lot # 10108574
<b>Phosphatase Activity (pNPP, Buffer)</b> 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
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 $\mu$ I reaction in 1X NEBNext® End Repair Reaction Buffer containing 1 $\mu$ 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.	Pass
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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
<b>RNase Activity (Buffer)</b> 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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This product has been tested and shown to be in compliance with all specifications.

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Christin /

Christine Sumner Production Scientist 28 Apr 2021

Michae on. 1

Michael Tonello Packaging Quality Control Inspector 28 Apr 2021

