

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext<sup>®</sup> dA-Tailing Reaction Buffer  
**Catalog Number:** B6059S  
**Concentration:** 10 X Concentrate  
**Packaging Lot Number:** 10096847  
**Expiration Date:** 08/2022  
**Storage Temperature:** -20°C  
**Specification Version:** PS-B6059S v2.0  
**Composition (1X):** 10 mM Tris-HCl, 10 mM MgCl<sub>2</sub>, 50 mM NaCl, 1 mM DTT, 0.2 mM dATP, (pH 7.9 @ 25°C)

NEBNext <sup>®</sup> dA-Tailing Reaction Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B6059SVIAL	NEBNext <sup>®</sup> dA-Tailing Reaction Buffer	10092221	Pass

Assay Name/Specification	Lot # 10096847
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 µl reaction in 1X NEBNext <sup>®</sup> dA-Tailing 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
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in 1X NEBNext <sup>®</sup> dA-Tailing 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>Phosphatase Activity (pNPP, Buffer)</b> A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl <sub>2</sub> containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext <sup>®</sup> dA-Tailing Reaction Buffer incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
<b>RNase Activity (Buffer)</b> A 10 µl reaction in 1X NEBNext <sup>®</sup> dA-Tailing 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

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



---

Christine Sumner  
Production Scientist  
13 Jan 2021



---

Michael Tonello  
Packaging Quality Control Inspector  
13 Jan 2021