

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® dA-Tailing Reaction Buffer

Catalog Number: B6059S

Concentration: 10 X Concentrate

Packaging Lot Number: 10187902 Expiration Date: 03/2025 Storage Temperature: -20°C

Specification Version: PS-B6059S v2.0

Composition (1X): 10 mM Tris-HCl, 10 mM MgCl2, 50 mM NaCl, 1 mM DTT, 0.2 mM dATP, (pH

7.9 @ 25°C)

| NEBNext® dA-Tailing Reaction Buffer Component List | | | | |
|--|-------------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| B6059SVIAL | NEBNext® dA-Tailing Reaction Buffer | 10187903 | Pass | |

| Assay Name/Specification | Lot # 10187902 |
|--|----------------|
| Endonuclease Activity (Nicking, Buffer) A 50 μl reaction in 1X NEBNext® 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 |
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext® 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 |
| 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® 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 |
| RNase Activity (Buffer) A 10 µl reaction in 1X NEBNext® 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 |



B6059S / Lot: 10187902 Page 1 of 2 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 for additional information.

Christine Sumner Production Scientist 15 May 2023

Christing Su

Packaging Quality Control Inspector

16 Oct 2023

Josh Hersey