

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] Library Dilution Buffer
 Catalog Number: B6118S
 Packaging Lot Number: 10069649
 Expiration Date: 10/2021
 Storage Temperature: -20°C
 Specification Version: PS-B6118S v2.0
 Composition (1X): Proprietary

| NEBNext [®] Library Dilution Buffer Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| B6118SVIAL | NEBNext [®] Library Dilution Buffer | 10069650 | Pass |

| Assay Name/Specification | Lot # 10069649 |
|---|----------------|
| <p>RNase Activity (Buffer) A 10 µl reaction in 1X NEBNext[®] Library Dilution 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.</p> | Pass |
| <p>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[®] Library Dilution Buffer incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p> | Pass |
| <p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext[®] Library Dilution 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.</p> | Pass |
| <p>Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBNext[®] Library Dilution 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.</p> | Pass |

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

Christine Sumner

Christine Sumner
Production Scientist
12 Mar 2020

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
12 Mar 2020