

## New England Biolabs Certificate of Analysis

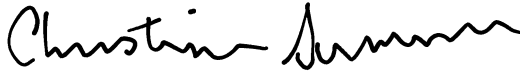
Product Name: NEBNext® Library Dilution Buffer  
 Catalog Number: B6118S  
 Packaging Lot Number: 10181769  
 Expiration Date: 05/2024  
 Storage Temperature: -20°C  
 Specification Version: PS-B6118S v2.0  
 Composition (1X): Proprietary

| NEBNext® Library Dilution Buffer Component List |                                  |            |                      |
|---|----------------------------------|------------|----------------------|
| NEB Part Number                                 | Component Description            | Lot Number | Individual QC Result |
| B6118SVIAL                                      | NEBNext® Library Dilution Buffer | 10149656   | Pass                 |

| Assay Name/Specification   | Lot # 10181769 |
|--|----------------|
| <p><b>Non-Specific DNase Activity (16 hour, Buffer)</b><br/>           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><b>Endonuclease Activity (Nicking, Buffer)</b><br/>           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 &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>   | Pass           |
| <p><b>RNase Activity (Buffer)</b><br/>           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, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>   | Pass           |
| <p><b>Phosphatase Activity (pNPP, Buffer)</b><br/>           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® Library Dilution Buffer incubated for 4 hours at 37°C yields &lt;0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p> | Pass           |

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

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21 Feb 2023



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21 Feb 2023