

New England Biolabs Certificate of Analysis

Product Name: NEBNext® Adaptor Dilution Buffer
Catalog Number: B1430S
Packaging Lot Number: 10146530
Expiration Date: 04/2024
Storage Temperature: -20°C
Specification Version: PS-B1430S v2.0

| NEBNext® Adaptor Dilution Buffer Component List | | | |
|---|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| B1430SVIAL | NEBNext Dilution Buffer for the NEBNext Adaptor | 10146531 | Pass |

| Assay Name/Specification | Lot # 10146530 |
|---|----------------|
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext® Adaptor 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. | Pass |
| Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBNext® Adaptor 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. | Pass |
| RNase Activity (Buffer) A 10 µl reaction in 1X NEBNext® Adaptor 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. | Pass |
| Phosphatase Activity (pNPP, Buffer) A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl ₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext® Adaptor Dilution Buffer incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis. | Pass |

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

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www.neb.com/trademarks for additional information.



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Production Scientist
17 Oct 2022



Michael Tonello
Packaging Quality Control Inspector
19 Jan 2023