

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] Adaptor Dilution Buffer
Catalog Number: B1430S
Packaging Lot Number: 10137609
Expiration Date: 11/2023
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	10123384	Pass

Assay Name/Specification	Lot # 10137609
<p>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.</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[®] Adaptor 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>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.</p>	Pass
<p>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.</p>	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.



Christine Sumner
Production Scientist
13 Jan 2022



Michael Tonello
Packaging Quality Control Inspector
13 Jan 2022