

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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## New England Biolabs Certificate of Analysis

Product Name:	NEBNext® Adaptor Dilution Buffer
Catalog Number:	B1430S
Packaging Lot Number:	10071782
Expiration Date:	12/2020
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	10033276	Pass

Assay Name/Specification	Lot # 10071782
<b>RNase Activity (Buffer)</b> 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
<b>Phosphatase Activity (pNPP, Buffer)</b> 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.	Pass
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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
<b>Endonuclease Activity (Nicking, Buffer)</b> 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

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





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**Christine Sumner Production Scientist** 23 Mar 2020

Josh Hersey Packaging Quality Control Inspector

23 Mar 2020

