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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	NEBNext® Library Dilution Buffer	
Catalog Number:	B6118S	
Lot Number:	10014415	
Expiration Date:	06/2020	
Storage Temperature:	-20°C	
Specification Version:	PS-B6118S v1.0	
Composition (1X):	Proprietary	

NEBNext® Library Dilution Buffer Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B6118SVIAL	NEBNext® Library Dilution Buffer	0081806	Pass	

Assay Name/Specification	Lot # 10014415
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 $\mu$ l reaction in 1X NEBNext® Library Dilution Buffer containing 1 $\mu$ g 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
<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® Library Dilution Buffer incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
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.	Pass
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in 1X NEBNext® Library Dilution Buffer containing 1 µg of T3 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

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





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