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New England Biolabs Certificate of Analysis

Product Name: NEBNext® Library Dilution Buffer

Catalog Number: B6118S
Lot Number: 10044652
Expiration Date: 11/2020
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	10035542	Pass	

Assay Name/Specification	Lot # 10044652
Non-Specific DNase Activity (16 hour, Buffer) 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
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® 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
Endonuclease Activity (Nicking, Buffer) 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 <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.



B6118S / Lot: 10044652



Christine Sumner **Production Scientist** 03 May 2019

Josh Hersey Packaging Quality Control Inspector 03 May 2019



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