

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: 10018783
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 # 10018783
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
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

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



B6118S / Lot: 10018783 Page 1 of 2



Christin Summ

Christine Sumner Production Scientist 09 Aug 2018 Michael Tonello

Packaging Quality Control Inspector

09 Aug 2018