

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] Quick Ligation[™] Reaction Buffer (5X)
Catalog Number: B6058S
Concentration: 5 X Concentrate
Lot Number: 10045488
Expiration Date: 04/2021
Storage Temperature: -20°C
Specification Version: PS-B6058S v1.0
Composition (1X): 66 mM Tris-HCl, 10 mM MgCl₂, 1 mM DTT, 1 mM ATP, 6 % PEG 6000, (pH 7.6 @ 25°C)

NEBNext [®] Quick Ligation [™] Reaction Buffer (5X) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B6058SVIAL	NEBNext [®] Quick Ligation [™] Reaction Buffer (5X)	10041439	Pass

Assay Name/Specification	Lot # 10045488
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBNext [®] Quick Ligation Reaction 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 [®] Quick Ligation Reaction 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 MgCl ₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext [®] Quick Ligation Reaction 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 [®] Quick Ligation Reaction 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.	Pass

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

Christine Sumner

Christine Sumner
Production Scientist
31 May 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
31 May 2019