

New England Biolabs Certificate of Analysis


Product Name: NEBNext® Quick Ligation Reaction Buffer
Catalog Number: B6058S
Concentration: 5 X Concentrate
Packaging Lot Number: 10205988
Expiration Date: 05/2025
Storage Temperature: -20°C
Specification Version: PS-B6058S v3.0
Composition (1X): Proprietary

| NEBNext® Quick Ligation Reaction Buffer Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| B6058SVIAL | NEBNext® Quick Ligation™ Reaction Buffer (5X) | 10187901 | Pass |

| Assay Name/Specification | Lot # 10205988 |
|--|----------------|
| 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 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 |
| 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Christine Sumner
Production Scientist
23 Aug 2023



Josh Hersey
Packaging Quality Control Inspector
23 Aug 2023