

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext<sup>®</sup> Quick Ligation Reaction Buffer  
**Catalog Number:** B6058S  
**Concentration:** 5 X Concentrate  
**Packaging Lot Number:** 10122391  
**Expiration Date:** 06/2023  
**Storage Temperature:** -20°C  
**Specification Version:** PS-B6058S v3.0  
**Composition (1X):** Proprietary

NEBNext <sup>®</sup> Quick Ligation Reaction Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B6058SVIAL	NEBNext <sup>®</sup> Quick Ligation™ Reaction Buffer (5X)	10122392	Pass

Assay Name/Specification	Lot # 10122391
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in 1X NEBNext <sup>®</sup> 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
<b>RNase Activity (Buffer)</b> A 10 µl reaction in 1X NEBNext <sup>®</sup> 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
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 µl reaction in 1X NEBNext <sup>®</sup> 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
<b>Phosphatase Activity (pNPP, Buffer)</b> A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl <sub>2</sub> containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext <sup>®</sup> 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

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

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Production Scientist  
27 Oct 2021



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Josh Hersey  
Packaging Quality Control Inspector  
04 Mar 2022