

## New England Biolabs Certificate of Analysis

Product Name: NEBNext® Quick Ligation™ Reaction Buffer (5X)  
 Catalog Number: B6058S  
 Concentration: 5 X Concentrate  
 Packaging Lot Number: 10089153  
 Expiration Date: 03/2022  
 Storage Temperature: -20°C  
 Specification Version: PS-B6058S v3.0  
 Composition (1X): Proprietary

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)	10073128	Pass

Assay Name/Specification	Lot # 10089153
<p><b>Endonuclease Activity (Nicking, Buffer)</b>            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 &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p><b>RNase Activity (Buffer)</b>            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, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis.</p>	Pass
<p><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® Quick Ligation Reaction Buffer incubated for 4 hours at 37°C yields &lt;0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p>	Pass
<p><b>Non-Specific DNase Activity (16 hour, Buffer)</b>            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.</p>	Pass

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

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Christine Sumner  
Production Scientist  
28 Oct 2020



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Michael Tonello  
Packaging Quality Control Inspector  
29 Oct 2020