

## New England Biolabs Certificate of Analysis

**Product Name:** *StickTogether™ DNA Ligase Buffer*  
**Catalog Number:** *B0535S*  
**Concentration:** *2 X Concentrate*  
**Packaging Lot Number:** *10126258*  
**Expiration Date:** *07/2024*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-B0535S v1.0*  
**Composition (1X):** *66 mM Tris-HCl, 10 mM MgCl<sub>2</sub>, 1 mM DTT, 1 mM ATP, 7.5 % PEG 6000, (pH 7.6 @ 25°C)*

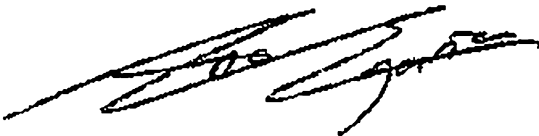
StickTogether™ DNA Ligase Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0535AVIAL	StickTogether™ DNA Ligase Buffer	10113004	Pass

Assay Name/Specification	Lot # 10126258
<b>RNase Activity (Buffer)</b> A 10 µl reaction in 1X StickTogether™ DNA Ligase 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 fluorescent detection.	Pass
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 µl reaction in 1X StickTogether™ DNA Ligase 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>pH (buffers/solutions)</b> The pH of 2X StickTogether™ DNA Ligase Buffer is between pH 7.5 and 7.7 at 25°C.	Pass
<b>Functional Testing (DNA Ligase Buffer)</b> A 20 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 50 ng of Lambda-HindIII DNA and 2,000 units of T4 DNA Ligase incubated for 5 minutes at 25°C results in approximately >95% ligation of the DNA fragments as determined by agarose gel electrophoresis.	Pass
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 1 µg of	Pass

Assay Name/Specification	Lot # 10126258
PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	

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

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21 Oct 2021



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21 Oct 2021