

New England Biolabs Certificate of Analysis

Product Name: *StickTogether™ DNA Ligase Buffer*
Catalog Number: *B0535S*
Concentration: *2 X Concentrate*
Packaging Lot Number: *10148545*
Expiration Date: *01/2025*
Storage Temperature: *-20°C*
Specification Version: *PS-B0535S v1.0*
Composition (1X): *66 mM Tris-HCl, 10 mM MgCl₂, 1 mM DTT, 1 mM ATP, 7.5 % PEG 6000, (pH 7.6 @ 25°C)*

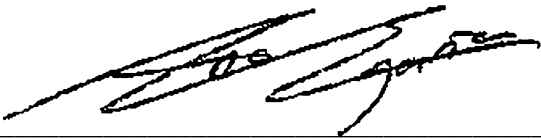
StickTogether™ DNA Ligase Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0535AVIAL	StickTogether™ DNA Ligase Buffer	10130276	Pass

Assay Name/Specification	Lot # 10148545
RNase Activity (Buffer) 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
Functional Testing (DNA Ligase Buffer) 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
Endonuclease Activity (Nicking, Buffer) 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
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 1 µg of 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.	Pass

Assay Name/Specification	Lot # 10148545
<p>pH (buffers/solutions) The pH of 2X StickTogether™ DNA Ligase Buffer is between pH 7.5 and 7.7 at 25°C.</p>	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.



Ana Egana
Production Scientist
26 Apr 2022



Erin Varney
Packaging Quality Control Inspector
26 Apr 2022